

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|  |                |   |                |                |
|--|----------------|---|----------------|----------------|
| TERRY Project #: <u>2230.8</u>                                   |                | Well #: <u>MW-6</u>   |                |                |
| Project Name: <u>Hot Spot #3005</u>                              |                | Well Diameter: <u>2</u> INCHES                                      |                |                |
| Date: <u>5/17/05</u>   |                | Total Well Depth: <u>36</u> FEET                                    |                |                |
| Field Personnel: <u>Mike Derrenbacher</u>                        |                | Depth to Groundwater: <u>24.31</u> FEET                             |                |                |
| General Weather Conditions: <u>Partly Cloudy</u>                 |                | Length of Water Column = <u>11.69</u> 0.00 FEET                     |                |                |
| Ambient Air Temperature: <u>76°</u> SCDHEC Site ID: <u>12719</u> |                | 1 casing vol = <u>11.69</u> 0.00 X 0.163 = <u>1.87</u> 0.00 GALLONS |                |                |
| Facility Name: _____   |                | 3 casing vols = <u>1.87</u> 0.00 X 3 = <u>5.61</u> 0.00 GALLONS     |                |                |
| <b>QUALITY ASSURANCE</b>   |                | Total Volume of Water Purged: <u>8.00</u> 0 GALLONS                 |                |                |
| pH Meter   | <u>Oakton</u>  | Conductivity Meter  | <u>Oakton</u>  |                |
| Serial No  | <u>73168</u>   | Cond Serial No:   | <u>73168</u>   |                |
| pH 4:  | <u>4.00</u>    | Standard1:  | <u>1413µS</u>  |                |
| pH 7:  | <u>7.05</u>    | Standard2:  | <u>447µS</u>   |                |
| pH 10:   | <u>10.06</u>   | Standard3:  |                |                |
| Additional Comments:<br><u>Purge Well</u>                        |                |   |                |                |
| Volume (gal):  | <u>2.0</u>     | <u>4.0</u>  | <u>6.0</u>     | <u>8.0</u>     |
| Time:  | <u>12:32</u>   | <u>12:34</u>  | <u>12:36</u>   | <u>12:38</u>   |
| pH (su):   | <u>5.75</u>    | <u>5.61</u>   | <u>5.51</u>    | <u>5.48</u>    |
| Spec Cond (mS/cm):   | <u>133.7µS</u> | <u>108.9</u>  | <u>108.5µS</u> | <u>108.7µS</u> |
| Water Temp (F or C):   | <u>22.7</u>    | <u>22.5</u>   | <u>21.9</u>    | <u>21.8</u>    |
| Turbidity (subjective):  | <u>1</u>       | <u>2</u>  | <u>2</u>       | <u>2</u>       |
| OVA Readings (ppm):  | <u>-</u>       | <u>-</u>  | <u>-</u>       | <u>-</u>       |
| Salinity (%):  | <u>-</u>       | <u>-</u>  | <u>-</u>       | <u>-</u>       |
| Dissolved Oxygen (mg/l):   | <u>2.4</u>     | <u>3.4</u>  | <u>2.8</u>     | <u>3.2</u>     |
| Remarks:   |                |   |                |                |

TERRY Environmental Services, Inc. P.O. Box 25 Summerville, SC 29484 1-800-325-0605

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|  |               |  |               |
|--|---------------|--|---------------|
| TERRY Project #: <u>2230.8</u>                                   |               | Well #: <u>MW-7</u>                                      |               |
| Project Name: <u>Hot Spot # 3005</u>                             |               | Well Diameter: <u>2</u> INCHES                           |               |
| Date: <u>5/17/05</u>   |               | Total Well Depth: <u>36</u> FEET                         |               |
| Field Personnel: <u>Mike Derrenbacher</u>                        |               | Depth to Groundwater: <u>23.10</u> FEET                  |               |
| General Weather Conditions: <u>Partly Cloudy</u>                 |               | Length of Water Column = <u>12.9</u> FEET                |               |
| Ambient Air Temperature: <u>76°</u> SCDHEC Site ID: <u>12719</u> |               | 1 casing vol = <u>12.9</u> X 0.163 = <u>2.06</u> GALLONS |               |
| Facility Name: _____   |               | 3 casing vols = <u>2.06</u> X 3 = <u>6.18</u> GALLONS    |               |
| <b>QUALITY ASSURANCE</b>   |               | Total Volume of Water Purged: <u>9.0</u> GALLONS         |               |
| pH Meter   | <u>Oakton</u> | Conductivity Meter                                       | <u>Oakton</u> |
| Serial No  | <u>73168</u>  | Cond Serial No:  | <u>73168</u>  |
| pH 4:  | <u>4.00</u>   | Standard1:   | <u>1413µS</u> |
| pH 7:  | <u>7.05</u>   | Standard2:   | <u>447µS</u>  |
| pH 10:   | <u>10.06</u>  | Standard3:   |               |
| Additional Comments: <u>Purge Well</u>                           |               |  |               |

|                          |               |               |               |               |  |  |  |  |
|--------------------------|---------------|---------------|---------------|---------------|--|--|--|--|
| Volume (gal):            | <u>3.0</u>    | <u>5.0</u>    | <u>7.0</u>    | <u>9.0</u>    |  |  |  |  |
| Time:                    | <u>12:53</u>  | <u>12:56</u>  | <u>12:59</u>  | <u>13:02</u>  |  |  |  |  |
| pH (su):                 | <u>5.62</u>   | <u>5.58</u>   | <u>5.51</u>   | <u>5.52</u>   |  |  |  |  |
| Spec Cond (mS/cm):       | <u>97.4µS</u> | <u>45.0µS</u> | <u>42.5µS</u> | <u>51.9µS</u> |  |  |  |  |
| Water Temp (F or C):     | <u>24.1</u>   | <u>23.0</u>   | <u>22.3</u>   | <u>22.9</u>   |  |  |  |  |
| Turbidity (subjective):  | <u>1</u>      | <u>2</u>      | <u>2</u>      | <u>2</u>      |  |  |  |  |
| OVA Readings (ppm):      | <u>-</u>      | <u>-</u>      | <u>-</u>      | <u>-</u>      |  |  |  |  |
| Salinity (%):            | <u>-</u>      | <u>-</u>      | <u>-</u>      | <u>-</u>      |  |  |  |  |
| Dissolved Oxygen (mg/l): | <u>4.1</u>    | <u>4.9</u>    | <u>5.5</u>    | <u>5.7</u>    |  |  |  |  |

Remarks:

TERRY Environmental Services, Inc. P.O. Box 25 Summerville, SC 29484 1-800-325-0605

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|   |               |  |                              |
|---|---------------|--|------------------------------|
| TERRY Project #: <u>2230.8</u>  |               | Well #: <u>NW-9</u>                                    |                              |
| Project Name: <u>Hot Spot # 3005</u>  |               | Well Diameter: <u>2</u> INCHES                         |                              |
| Date: <u>5/17/05</u>  |               | Total Well Depth: <u>12.01</u> FEET                    |                              |
| Field Personnel: <u>Mike Derrenbacher</u>   |               | Depth to Groundwater: <u>N/A</u> FEET                  |                              |
| General Weather Conditions: <u>Partly Cloudy</u>  |               | Length of Water Column = <u>N/A</u> FEET               |                              |
| Ambient Air Temperature: <u>76°</u> SCDHEC Site ID: <u>12719</u>                                  |               | 1 casing vol = <u>N/A</u> X 0.163 = <u>N/A</u> GALLONS |                              |
| Facility Name: _____  |               | 3 casing vols = <u>N/A</u> X 3 = <u>N/A</u> GALLONS    |                              |
| <b>QUALITY ASSURANCE</b>  |               | Total Volume of Water Purged: _____ GALLONS            |                              |
| pH Meter  | <u>Oakton</u> | Conductivity Meter                                     | <u>Oakton</u>                |
| Serial No   | <u>73168</u>  | Cond Serial No:  | <u>73168</u>                 |
| pH 4:   | <u>4.00</u>   | Standard1:   | <u>1413<math>\mu</math>S</u> |
| pH 7:   | <u>7.05</u>   | Standard2:   | <u>447<math>\mu</math>S</u>  |
| pH 10:  | <u>10.06</u>  | Standard3:   | _____                        |
| Additional Comments:<br><u>No Water in well, reached bottom at 12.01 ft. Possible Obstruction</u> |               |  |                              |
| Volume (gal):   |               |  |                              |
| Time:   |               |  |                              |
| pH (su):  |               |  |                              |
| Spec Cond (mS/cm):  |               |  |                              |
| Water Temp (F or C):  |               |  |                              |
| Turbidity (subjective):   |               |  |                              |
| OVA Readings (ppm):   |               |  |                              |
| Salinity (%):   |               |  |                              |
| Dissolved Oxygen (mg/l):  |               |  |                              |

Remarks:

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|  |               |  |               |
|--|---------------|--|---------------|
| TERRY Project #: <u>2230.8</u>                                   |               | Well #: <u>MW-10</u>   |               |
| Project Name: <u>Hot Spot # 3005</u>                             |               | Well Diameter: <u>2</u> INCHES                                     |               |
| Date: <u>5/17/05</u>   |               | Total Well Depth: <u>27</u> 0 FEET                                 |               |
| Field Personnel: <u>Mike Derrenbacher</u>                        |               | Depth to Groundwater: <u>19.37</u> 0 FEET                          |               |
| General Weather Conditions: <u>Partly Cloudy</u>                 |               | Length of Water Column = <u>7.63</u> 0.00 FEET                     |               |
| Ambient Air Temperature: <u>76°</u> SCDHEC Site ID: <u>12719</u> |               | 1 casing vol = <u>7.63</u> 0.00 X 0.163 = <u>1.24</u> 0.00 GALLONS |               |
| Facility Name: _____   |               | 3 casing vols = <u>1.24</u> 0.00 X 3 = <u>3.72</u> 0.00 GALLONS    |               |
| <b>QUALITY ASSURANCE</b>   |               | Total Volume of Water Purged: _____ 0 GALLONS                      |               |
| pH Meter   | <u>Oakton</u> | Conductivity Meter   | <u>Oakton</u> |
| Serial No  | <u>73168</u>  | Cond Serial No:  | <u>73168</u>  |
| pH 4:  | <u>4.00</u>   | Standard1:   | <u>1413µS</u> |
| pH 7:  | <u>7.05</u>   | Standard2:   | <u>447µS</u>  |
| pH 10:   | <u>10.06</u>  | Standard3:   |               |
| Additional Comments: <u>No Purge</u>                             |               |  |               |

|                          |                |  |  |  |  |  |  |  |  |
|--------------------------|----------------|--|--|--|--|--|--|--|--|
| Volume (gal):            | -              |  |  |  |  |  |  |  |  |
| Time:                    | <u>13:32</u>   |  |  |  |  |  |  |  |  |
| pH (su):                 | <u>5.50</u>    |  |  |  |  |  |  |  |  |
| Spec Cond (mS/cm):       | <u>161.5µS</u> |  |  |  |  |  |  |  |  |
| Water Temp (F or C):     | <u>22.4</u>    |  |  |  |  |  |  |  |  |
| Turbidity (subjective):  | <u>1</u>       |  |  |  |  |  |  |  |  |
| OVA Readings (ppm):      | -              |  |  |  |  |  |  |  |  |
| Salinity (%):            | -              |  |  |  |  |  |  |  |  |
| Dissolved Oxygen (mg/l): | <u>2.1</u>     |  |  |  |  |  |  |  |  |

Remarks:

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|  |                                  |                                   |               |  |  |  |  |
|--|----------------------------------|-----------------------------------|---------------|--|--|--|--|
| TERRY Project #: <u>2230.8</u>                                   |                                  |                                   |               | Well #: <u>MW-10R</u>  |  |  |  |
| Project Name: <u>Hot Spot # 3005</u>                             |                                  |                                   |               | Well Diameter: <u>2</u> INCHES   |  |  |  |
| Date: <u>5/17/05</u>   |                                  |                                   |               | Total Well Depth: <u>32.0</u> FEET   |  |  |  |
| Field Personnel: <u>Mike Derrenbacher</u>                        |                                  |                                   |               | Depth to Groundwater: <u>19.530</u> FEET   |  |  |  |
| General Weather Conditions: <u>Partly Cloudy</u>                 |                                  |                                   |               | Length of Water Column = <u>12.47</u> 0.00 FEET  |  |  |  |
| Ambient Air Temperature: <u>76°</u> SCDHEC Site ID: <u>12719</u> |                                  |                                   |               | 1 casing vol = <u>12.47</u> 0.00 X 0.163 = <u>1.99</u> 0.00 GALLONS                        |  |  |  |
| Facility Name: <u></u>   |                                  |                                   |               | 3 casing vols = <u>1.99</u> 0.00 X 3 = <u>5.97</u> 0.00 GALLONS                            |  |  |  |
| <b>QUALITY ASSURANCE</b>   |                                  |                                   |               | Total Volume of Water Purged: <u>8.00</u> 0 GALLONS  |  |  |  |
| pH Meter: <u>Oakton</u>  |                                  | Conductivity Meter: <u>Oakton</u> |               | Additional Comments:<br><u>Purge Well</u><br><br><u>MW-10 located right next to MW-10R</u> |  |  |  |
| Serial No: <u>73168</u>  |                                  | Cond Serial No: <u>73168</u>      |               |  |  |  |  |
| pH 4: <u>4.00</u>  |                                  | Standard1: <u>1413µS</u>          |               |  |  |  |  |
| pH 7: <u>7.05</u>  |                                  | Standard2: <u>447µS</u>           |               |  |  |  |  |
| pH 10: <u>10.06</u>  |                                  | Standard3: <u></u>                |               |  |  |  |  |
| Volume (gal):  | <u>2.0</u>                       | <u>4.0</u>                        | <u>6.0</u>    |  |  |  |  |
| Time:  | <u>13:40</u>                     | <u>13:43</u>                      | <u>13:46</u>  |  |  |  |  |
| pH (su):   | <u>5.56</u>                      | <u>5.24</u>                       | <u>5.18</u>   |  |  |  |  |
| Spec Cond (mS/cm):   | <del>97.5µS</del> <u>124.5µS</u> | <u>93.1µS</u>                     | <u>95.7µS</u> |  |  |  |  |
| Water Temp (F or C):   | <u>21.2</u>                      | <u>20.8</u>                       | <u>20.5</u>   |  |  |  |  |
| Turbidity (subjective):  | <u>2</u>                         | <u>2</u>                          | <u>2</u>      |  |  |  |  |
| OVA Readings (ppm):  | <u>-</u>                         | <u>-</u>                          | <u>-</u>      |  |  |  |  |
| Salinity (%):  | <u>-</u>                         | <u>-</u>                          | <u>-</u>      |  |  |  |  |
| Dissolved Oxygen (mg/l):   | <u>2.9</u>                       | <u>3.1</u>                        | <u>2.9</u>    |  |  |  |  |

Remarks:

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|  |                |  |                |
|--|----------------|--|----------------|
| TERRY Project #: <u>2230.8</u>                                   |                | Well #: <u>MW-11</u>   |                |
| Project Name: <u>Hot Spot # 3005</u>                             |                | Well Diameter: <u>2</u> INCHES                                     |                |
| Date: <u>5/17/05</u>   |                | Total Well Depth: <u>28</u> 0 FEET                                 |                |
| Field Personnel: <u>Mike Derrenbacher</u>                        |                | Depth to Groundwater: <u>20.41</u> 0 FEET                          |                |
| General Weather Conditions: <u>Partly Cloudy</u>                 |                | Length of Water Column = <u>7.59</u> 0.00 FEET                     |                |
| Ambient Air Temperature: <u>76°</u> SCDHEC Site ID: <u>12719</u> |                | 1 casing vol = <u>7.59</u> 0.00 X 0.163 = <u>1.24</u> 0.00 GALLONS |                |
| Facility Name: _____   |                | 3 casing vols = <u>1.24</u> 0.00 X 3 = <u>3.72</u> 0.00 GALLONS    |                |
| <b>QUALITY ASSURANCE</b>   |                |  |                |
| pH Meter   | <u>Oakton</u>  | Conductivity Meter   | <u>Oakton</u>  |
| Serial No  | <u>73168</u>   | Cond Serial No:  | <u>73168</u>   |
| pH 4:  | <u>4.00</u>    | Standard1:   | <u>1413 μS</u> |
| pH 7:  | <u>7.05</u>    | Standard2:   | <u>447 μS</u>  |
| pH 10:   | <u>10.06</u>   | Standard3:   |                |
|  |                | Additional Comments:   |                |
|  |                | <u>No Purge</u>  |                |
|  |                | <u>MW-10R (second labeled) next to MW-11</u>                       |                |
| Volume (gal):  | <u>-</u>       |  |                |
| Time:  | <u>13:54</u>   |  |                |
| pH (su):   | <u>5.13</u>    |  |                |
| Spec Cond (mS/cm):   | <u>41.3 μS</u> |  |                |
| Water Temp (F or C):   | <u>21.8</u>    |  |                |
| Turbidity (subjective):  | <u>1</u>       |  |                |
| OVA Readings (ppm):  | <u>-</u>       |  |                |
| Salinity (%):  | <u>-</u>       |  |                |
| Dissolved Oxygen (mg/l):   | <u>3.9</u>     |  |                |
| Remarks:   |                |  |                |

TERRY Environmental Services, Inc. P.O. Box 25 Summerville, SC 29484 1-800-325-0605

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|  |               |   |               |
|--|---------------|---|---------------|
| TERRY Project #: <u>2230.8</u>   |               | Well #: <u>MW-11R</u>   |               |
| Project Name: <u>Hot Spot #3005</u>  |               | Well Diameter: <u>2</u> INCHES                                      |               |
| Date: <u>5/17/05</u>   |               | Total Well Depth: <u>32</u> FEET                                    |               |
| Field Personnel: <u>Mike Derrenbacher</u>  |               | Depth to Groundwater: <u>20.610</u> FEET                            |               |
| General Weather Conditions: <u>Partly Cloudy</u>   |               | Length of Water Column = <u>11.39</u> 0.00 FEET                     |               |
| Ambient Air Temperature: <u>76°</u> SCDHEC Site ID: <u>12719</u>   |               | 1 casing vol = <u>11.39</u> 0.00 X 0.163 = <u>1.82</u> 0.00 GALLONS |               |
| Facility Name: _____   |               | 3 casing vols = <u>1.82</u> 0.00 X 3 = <u>5.46</u> 0.00 GALLONS     |               |
| <b>QUALITY ASSURANCE</b>   |               |   |               |
| pH Meter   | <u>Oakton</u> | Conductivity Meter  | <u>Oakton</u> |
| Serial No  | <u>73168</u>  | Cond Serial No:   | <u>73168</u>  |
| pH 4:  | <u>4.00</u>   | Standard1:  | <u>1413µS</u> |
| pH 7:  | <u>7.05</u>   | Standard2:  | <u>447µS</u>  |
| pH 10:   | <u>10.06</u>  | Standard3:  |               |
| Additional Comments:<br><u>Purge Well</u><br><u>Well dry @ 3.0 gal</u><br><br><u>(Renamed MW-10R (II) to MW-11R)</u> |               |   |               |
| Volume (gal):  | <u>2.0</u>    |   |               |
| Time:  | <u>14:02</u>  |   |               |
| pH (su):   | <u>5.01</u>   |   |               |
| Spec Cond (mS/cm):   | <u>79.1µS</u> |   |               |
| Water Temp (F or C):   | <u>21.0</u>   |   |               |
| Turbidity (subjective):  | <u>4</u>      |   |               |
| OVA Readings (ppm):  | <u>-</u>      |   |               |
| Salinity (%):  | <u>-</u>      |   |               |
| Dissolved Oxygen (mg/l):   | <u>5.0</u>    |   |               |

Remarks:

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|  |                |                    |   |  |  |
|--|----------------|--------------------|---|--|--|
| TERRY Project #: <u>2230.8</u>                                   |                |                    | Well #: <u>MW-12</u>  |  |  |
| Project Name: <u>Hot Spot # 3005</u>                             |                |                    | Well Diameter: <u>2</u> INCHES                                      |  |  |
| Date: <u>5/17/05</u>   |                |                    | Total Well Depth: <u>30</u> FEET                                    |  |  |
| Field Personnel: <u>Mike Derrenbacher</u>                        |                |                    | Depth to Groundwater: <u>18.820</u> FEET                            |  |  |
| General Weather Conditions: <u>Partly Cloudy</u>                 |                |                    | Length of Water Column = <u>11.18</u> 0.00 FEET                     |  |  |
| Ambient Air Temperature: <u>76°</u> SCDHEC Site ID: <u>12719</u> |                |                    | 1 casing vol = <u>11.18</u> 0.00 X 0.163 = <u>1.78</u> 0.00 GALLONS |  |  |
| Facility Name: <u></u>   |                |                    | 3 casing vols = <u>1.78</u> 0.00 X 3 = <u>5.34</u> 0.00 GALLONS     |  |  |
| <b>QUALITY ASSURANCE</b>   |                |                    |   |  |  |
| pH Meter   | <u>Oakton</u>  | Conductivity Meter | <u>Oakton</u>   |  |  |
| Serial No  | <u>73168</u>   | Cond Serial No:    | <u>73168</u>  |  |  |
| pH 4:  | <u>4.00</u>    | Standard 1:        | <u>1413µS</u>   |  |  |
| pH 7:  | <u>7.05</u>    | Standard 2:        | <u>447µS</u>  |  |  |
| pH 10:   | <u>10.06</u>   | Standard 3:        | <u></u>   |  |  |
| Additional Comments: <u>Purge Well</u>                           |                |                    |   |  |  |
| Volume (gal):  | <u>2.0</u>     | <u>4.0</u>         | <u>6.0</u>  |  |  |
| Time:  | <u>14:22</u>   | <u>14:25</u>       | <u>14:28</u>  |  |  |
| pH (su):   | <u>5.19</u>    | <u>5.18</u>        | <u>5.23</u>   |  |  |
| Spec Cond (mS/cm):   | <u>106.9µS</u> | <u>103.7µS</u>     | <u>106.5µS</u>  |  |  |
| Water Temp (F or C):   | <u>20.2</u>    | <u>19.8</u>        | <u>19.4</u>   |  |  |
| Turbidity (subjective):  | <u>3</u>       | <u>2</u>           | <u>2</u>  |  |  |
| OVA Readings (ppm):  | <u>-</u>       | <u>-</u>           | <u>-</u>  |  |  |
| Salinity (%):  | <u>-</u>       | <u>-</u>           | <u>-</u>  |  |  |
| Dissolved Oxygen (mg/l):   | <u>6.3</u>     | <u>6.4</u>         | <u>6.5</u>  |  |  |
| Remarks:   |                |                    |   |  |  |

TERRY Environmental Services, Inc. P.O. Box 25 Summerville, SC 29484 1-800-325-0605



P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|  |               |  |                |
|--|---------------|--|----------------|
| TERRY Project #: <u>2230.8</u>                                   |               | Well #: <u>MW-13</u>   |                |
| Project Name: <u>Hot Spot # 3005</u>                             |               | Well Diameter: <u>2</u> INCHES                                     |                |
| Date: <u>5/17/05</u>   |               | Total Well Depth: <u>27</u> 0 FEET                                 |                |
| Field Personnel: <u>Mike Derrenbacher</u>                        |               | Depth to Groundwater: <u>19.92</u> 0 FEET                          |                |
| General Weather Conditions: <u>Partly Cloudy</u>                 |               | Length of Water Column = <u>7.08</u> 0.00 FEET                     |                |
| Ambient Air Temperature: <u>76°</u> SCDHEC Site ID: <u>12719</u> |               | 1 casing vol = <u>7.08</u> 0.00 X 0.163 = <u>1.15</u> 0.00 GALLONS |                |
| Facility Name: _____   |               | 3 casing vols = <u>1.15</u> 0.00 X 3 = <u>3.45</u> 0.00 GALLONS    |                |
| <b>QUALITY ASSURANCE</b>   |               |  |                |
| pH Meter   | <u>Oakton</u> | Conductivity Meter   | <u>Oakton</u>  |
| Serial No  | <u>73168</u>  | Cond Serial No:  | <u>73168</u>   |
| pH 4:  | <u>4.00</u>   | Standard 1:  | <u>1413 μS</u> |
| pH 7:  | <u>7.05</u>   | Standard 2:  | <u>447 μS</u>  |
| pH 10:   | <u>10.06</u>  | Standard 3:  | _____          |
| Additional Comments:   |               | <u>No Purge</u>  |                |
| Total Volume of Water Purged: _____ 0 GALLONS                    |               |  |                |

|                          |                 |  |  |  |  |  |  |  |  |
|--------------------------|-----------------|--|--|--|--|--|--|--|--|
| Volume (gal):            | <u>-</u>        |  |  |  |  |  |  |  |  |
| Time:                    | <u>14:14</u>    |  |  |  |  |  |  |  |  |
| pH (su):                 | <u>5.12</u>     |  |  |  |  |  |  |  |  |
| Spec Cond (mS/cm):       | <u>104.3 mS</u> |  |  |  |  |  |  |  |  |
| Water Temp (F or C):     | <u>20.3</u>     |  |  |  |  |  |  |  |  |
| Turbidity (subjective):  | <u>1</u>        |  |  |  |  |  |  |  |  |
| OVA Readings (ppm):      | <u>-</u>        |  |  |  |  |  |  |  |  |
| Salinity (%):            | <u>-</u>        |  |  |  |  |  |  |  |  |
| Dissolved Oxygen (mg/l): | <u>5.2</u>      |  |  |  |  |  |  |  |  |

Remarks:

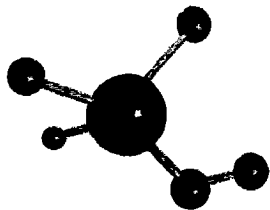
P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|  |                |  |                     |
|--|----------------|--|---------------------|
| TERRY Project #: <u>2230.8</u>                                   |                | Well #: <u>MW-14</u>   |                     |
| Project Name: <u>Hot Spot # 3005</u>                             |                | Well Diameter: <u>2</u> INCHES                                     |                     |
| Date: <u>5/17/05</u>   |                | Total Well Depth: <u>31</u> 0 FEET                                 |                     |
| Field Personnel: <u>Mike Derrenbacher</u>                        |                | Depth to Groundwater: <u>24.41</u> FEET                            |                     |
| General Weather Conditions: <u>Partly Cloudy</u>                 |                | Length of Water Column = <u>6.59</u> 0.00 FEET                     |                     |
| Ambient Air Temperature: <u>76°</u> SCDHEC Site ID: <u>12719</u> |                | 1 casing vol = <u>6.59</u> 0.00 X 0.163 = <u>1.07</u> 0.00 GALLONS |                     |
| Facility Name: _____   |                | 3 casing vols = <u>1.07</u> 0.00 X 3 = <u>3.21</u> 0.00 GALLONS    |                     |
| <b>QUALITY ASSURANCE</b>   |                | Total Volume of Water Purged: _____ 0 GALLONS                      |                     |
| pH Meter   | Oakton         | Conductivity Meter   | Oakton              |
| Serial No  | 73168          | Cond Serial No:  | 73168               |
| pH 4:  | <u>4.00</u>    | Standard1:   | <u>1413</u> $\mu$ S |
| pH 7:  | <u>7.05</u>    | Standard2:   | <u>447</u> $\mu$ S  |
| pH 10:   | <u>10.06</u>   | Standard3:   |                     |
| Additional Comments: <u>No Purge</u>                             |                |  |                     |
| Volume (gal):  | <u>-</u>       |  |                     |
| Time:  | <u>11:33</u>   |  |                     |
| pH (su):   | <u>5.51</u>    |  |                     |
| Spec Cond (mS/cm):   | <u>177.616</u> |  |                     |
| Water Temp (F or C):   | <u>20.3</u>    |  |                     |
| Turbidity (subjective):  | <u>2</u>       |  |                     |
| OVA Readings (ppm):  | <u>-</u>       |  |                     |
| Salinity (%):  | <u>-</u>       |  |                     |
| Dissolved Oxygen (mg/l):   | <u>3.2</u>     |  |                     |

Remarks:

## **APPENDIX 3**

### **Laboratory Analytical Report**



# ACCESS ANALYTICAL, INC.

## ANALYTICAL REPORT

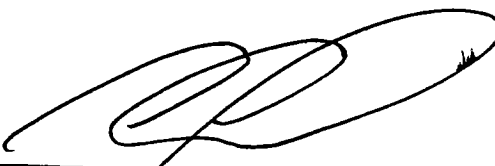
Job Number: 400-2550.1

Job Description: 2230.8

For:

Terry Environmental Services  
P.O. Box 25  
Summerville, SC 29484

Attention: Mr. Tim Nickel

---

Project Manager I

06/01/2005

FLDOH Certification #E81010. SCDHEC Certification #96026. The test results in this report meet all NELAP requirements for accredited parameters. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced except in full without written approval from the laboratory.

**Severn Trent Laboratories, Inc.**

STL Pensacola 3355 McLemore Drive, Pensacola, FL 32514

Tel 850-4741001 Fax 850-4782671 [www.stl-inc.com](http://www.stl-inc.com)

7478 CARLISLE STREET • IRMO, S.C. 29063

PHONE (803) 781-4243 • TOLL FREE (888) 315-4243 • FAX (803) 781-4303 • [WWW.ACCESSANALYTICALINC.COM](http://WWW.ACCESSANALYTICALINC.COM)

Mr. Tim Nickel  
Terry Environmental Services  
P.O. Box 25  
Summerville, SC 29484

Job Number: 400-2550.1  
Lab Sample Id: 400-2550-1  
Date Sampled: 05/17/2005 0000  
Date Received: 05/20/2005 0950

Client Sample ID: MW-1

**GC/MS VOA**

| Result/Qualifier        | Unit     | RL   | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|----------|------|--------|-----------------|-----------------|----------|
| Benzene                 | 88 ug/L  | 1.0  | 8260B  | 05/29/2005 0941 | 05/29/2005 0941 | 1.0      |
| Ethylbenzene            | 35 ug/L  | 0.90 | 8260B  | 05/29/2005 0941 | 05/29/2005 0941 | 1.0      |
| Methyl tert-butyl ether | 7.6 ug/L | 0.89 | 8260B  | 05/29/2005 0941 | 05/29/2005 0941 | 1.0      |
| Toluene                 | 95 ug/L  | 0.80 | 8260B  | 05/29/2005 0941 | 05/29/2005 0941 | 1.0      |
| Xylenes, Total          | 150 ug/L | 1.6  | 8260B  | 05/29/2005 0941 | 05/29/2005 0941 | 1.0      |
| Naphthalene             | 41 ug/L  | 1.8  | 8260B  | 05/29/2005 0941 | 05/29/2005 0941 | 1.0      |

STL Pensacola

Mr. Tim Nickel  
Terry Environmental Services  
P.O. Box 25  
Summerville, SC 29484

Job Number: 400-2550.1  
Lab Sample Id: 400-2550-2  
Date Sampled: 05/17/2005 0000  
Date Received: 05/20/2005 0950

Client Sample ID. MW-1D

**GC/MS VOA**

|                         | Result/Qualifier | Unit | RL   | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|------|--------|-----------------|-----------------|----------|
| Benzene                 | ND               | ug/L | 1.0  | 8260B  | 05/29/2005 1017 | 05/29/2005 1017 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 0.90 | 8260B  | 05/29/2005 1017 | 05/29/2005 1017 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 0.89 | 8260B  | 05/29/2005 1017 | 05/29/2005 1017 | 1.0      |
| Toluene                 | ND               | ug/L | 0.80 | 8260B  | 05/29/2005 1017 | 05/29/2005 1017 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 1.6  | 8260B  | 05/29/2005 1017 | 05/29/2005 1017 | 1.0      |
| Naphthalene             | ND               | ug/L | 1.8  | 8260B  | 05/29/2005 1017 | 05/29/2005 1017 | 1.0      |

STL Pensacola

Mr. Tim Nickel  
Terry Environmental Services  
P.O. Box 25  
Summerville, SC 29484

Job Number: 400-2550.1  
Lab Sample Id: 400-2550-3  
Date Sampled: 05/17/2005 0000  
Date Received: 05/20/2005 0950

Client Sample ID: MW-2

**GC/MS VOA**

| Result/Qualifier        | Unit     | RL   | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|----------|------|--------|-----------------|-----------------|----------|
| Benzene                 | 94 ug/L  | 1.0  | 8260B  | 05/29/2005 1128 | 05/29/2005 1128 | 1.0      |
| Ethylbenzene            | 75 ug/L  | 0.90 | 8260B  | 05/29/2005 1128 | 05/29/2005 1128 | 1.0      |
| Methyl tert-butyl ether | 10 ug/L  | 0.89 | 8260B  | 05/29/2005 1128 | 05/29/2005 1128 | 1.0      |
| Toluene                 | 90 ug/L  | 0.80 | 8260B  | 05/29/2005 1128 | 05/29/2005 1128 | 1.0      |
| Xylenes, Total          | 320 ug/L | 1.6  | 8260B  | 05/29/2005 1128 | 05/29/2005 1128 | 1.0      |
| Naphthalene             | 110 ug/L | 1.8  | 8260B  | 05/29/2005 1128 | 05/29/2005 1128 | 1.0      |

STL Pensacola

Mr. Tim Nickel  
Terry Environmental Services  
P.O. Box 25  
Summerville, SC 29484

Job Number: 400-2550.1  
Lab Sample Id: 400-2550-4  
Date Sampled: 05/17/2005 0000  
Date Received: 05/20/2005 0950

Client Sample ID: MW-3R

| GC/MS VOA               | Result/Qualifier | Unit | RL  | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|-----|--------|-----------------|-----------------|----------|
| Benzene                 | 250              | ug/L | 5.0 | 8260B  | 05/29/2005 1203 | 05/29/2005 1203 | 5.0      |
| Ethylbenzene            | 190              | ug/L | 4.5 | 8260B  | 05/29/2005 1203 | 05/29/2005 1203 | 5.0      |
| Methyl tert-butyl ether | 380              | ug/L | 4.5 | 8260B  | 05/29/2005 1203 | 05/29/2005 1203 | 5.0      |
| Toluene                 | 55               | ug/L | 4.0 | 8260B  | 05/29/2005 1203 | 05/29/2005 1203 | 5.0      |
| Xylenes, Total          | 950              | ug/L | 8.0 | 8260B  | 05/29/2005 1203 | 05/29/2005 1203 | 5.0      |
| Naphthalene             | 420              | ug/L | 9.0 | 8260B  | 05/29/2005 1203 | 05/29/2005 1203 | 5.0      |

STL Pensacola



Mr. Tim Nickel  
Terry Environmental Services  
P O. Box 25  
Summerville, SC 29484

Job Number: 400-2550.1  
Lab Sample Id: 400-2550-5  
Date Sampled: 05/17/2005 0000  
Date Received: 05/20/2005 0950

Client Sample ID: MW-4

**GC/MS VOA**

| Result/Qualifier        | Unit | RL   | Method | Date Prepared | Date Analyzed   | Dilution        |     |
|-------------------------|------|------|--------|---------------|-----------------|-----------------|-----|
| Benzene                 | ND   | ug/L | 1.0    | 8260B         | 05/29/2005 1239 | 05/29/2005 1239 | 1.0 |
| Ethylbenzene            | ND   | ug/L | 0.90   | 8260B         | 05/29/2005 1239 | 05/29/2005 1239 | 1.0 |
| Methyl tert-butyl ether | ND   | ug/L | 0.89   | 8260B         | 05/29/2005 1239 | 05/29/2005 1239 | 1.0 |
| Toluene                 | ND   | ug/L | 0.80   | 8260B         | 05/29/2005 1239 | 05/29/2005 1239 | 1.0 |
| Xylenes, Total          | ND   | ug/L | 1.6    | 8260B         | 05/29/2005 1239 | 05/29/2005 1239 | 1.0 |
| Naphthalene             | ND   | ug/L | 1.8    | 8260B         | 05/29/2005 1239 | 05/29/2005 1239 | 1.0 |

STL Pensacola

Mr. Tim Nickel  
 Terry Environmental Services  
 P O. Box 25  
 Summerville, SC 29484

Job Number: 400-2550.1  
 Lab Sample Id: 400-2550-6  
 Date Sampled: 05/17/2005 0000  
 Date Received: 05/20/2005 0950

Client Sample ID: MW-5

**GC/MS VOA**

|                         | Result/Qualifier | Unit | RL   | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|------|--------|-----------------|-----------------|----------|
| Benzene                 | ND               | ug/L | 1.0  | 8260B  | 05/29/2005 1314 | 05/29/2005 1314 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 0.90 | 8260B  | 05/29/2005 1314 | 05/29/2005 1314 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 0.89 | 8260B  | 05/29/2005 1314 | 05/29/2005 1314 | 1.0      |
| Toluene                 | ND               | ug/L | 0.80 | 8260B  | 05/29/2005 1314 | 05/29/2005 1314 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 1.6  | 8260B  | 05/29/2005 1314 | 05/29/2005 1314 | 1.0      |
| Naphthalene             | ND               | ug/L | 1.8  | 8260B  | 05/29/2005 1314 | 05/29/2005 1314 | 1.0      |

STL Pensacola

Mr. Tim Nickel  
Terry Environmental Services  
P.O. Box 25  
Summerville, SC 29484

Job Number: 400-2550.1  
Lab Sample Id: 400-2550-7  
Date Sampled: 05/17/2005 0000  
Date Received: 05/20/2005 0950

Client Sample ID: MW-6

|                         | Result/Qualifier | Unit   | RL   | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|--------|------|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |        |      |        |                 |                 |          |
| Benzene                 | 5.6              | ug/L   | 1.0  | 8260B  | 05/29/2005 1350 | 05/29/2005 1350 | 1.0      |
| Ethylbenzene            | 6.5              | ug/L   | 0.90 | 8260B  | 05/29/2005 1350 | 05/29/2005 1350 | 1.0      |
| Methyl tert-butyl ether | 5.4              | ug/L   | 0.89 | 8260B  | 05/29/2005 1350 | 05/29/2005 1350 | 1.0      |
| Toluene                 | 3.2              | J ug/L | 0.80 | 8260B  | 05/29/2005 1350 | 05/29/2005 1350 | 1.0      |
| Xylenes, Total          | 42               | ug/L   | 1.6  | 8260B  | 05/29/2005 1350 | 05/29/2005 1350 | 1.0      |
| Naphthalene             | 22               | ug/L   | 1.8  | 8260B  | 05/29/2005 1350 | 05/29/2005 1350 | 1.0      |

STL Pensacola

Mr. Tim Nickel  
 Terry Environmental Services  
 P.O. Box 25  
 Summerville, SC 29484

Job Number: 400-2550.1  
 Lab Sample Id: 400-2550-8  
 Date Sampled: 05/17/2005 0000  
 Date Received: 05/20/2005 0950

Client Sample ID: MW-7

**GC/MS VOA**

|                         | Result/Qualifier | Unit | RL   | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|------|--------|-----------------|-----------------|----------|
| Benzene                 | ND               | ug/L | 1.0  | 8260B  | 05/29/2005 1425 | 05/29/2005 1425 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 0.90 | 8260B  | 05/29/2005 1425 | 05/29/2005 1425 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 0.89 | 8260B  | 05/29/2005 1425 | 05/29/2005 1425 | 1.0      |
| Toluene                 | ND               | ug/L | 0.80 | 8260B  | 05/29/2005 1425 | 05/29/2005 1425 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 1.6  | 8260B  | 05/29/2005 1425 | 05/29/2005 1425 | 1.0      |
| Naphthalene             | ND               | ug/L | 1.8  | 8260B  | 05/29/2005 1425 | 05/29/2005 1425 | 1.0      |

STL Pensacola

Mr. Tim Nickel  
 Terry Environmental Services  
 P.O. Box 25  
 Summerville, SC 29484

Job Number: 400-2550.1  
 Lab Sample Id: 400-2550-9  
 Date Sampled: 05/17/2005 0000  
 Date Received: 05/20/2005 0950

Client Sample ID: MW-10

**GC/MS VOA**

|                         | Result/Qualifier | Unit | RL   | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|------|--------|-----------------|-----------------|----------|
| Benzene                 | ND               | ug/L | 1.0  | 8260B  | 05/29/2005 1501 | 05/29/2005 1501 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 0.90 | 8260B  | 05/29/2005 1501 | 05/29/2005 1501 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 0.89 | 8260B  | 05/29/2005 1501 | 05/29/2005 1501 | 1.0      |
| Toluene                 | ND               | ug/L | 0.80 | 8260B  | 05/29/2005 1501 | 05/29/2005 1501 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 1.6  | 8260B  | 05/29/2005 1501 | 05/29/2005 1501 | 1.0      |
| Naphthalene             | ND               | ug/L | 1.8  | 8260B  | 05/29/2005 1501 | 05/29/2005 1501 | 1.0      |

STL Pensacola

Mr. Tim Nickel  
Terry Environmental Services  
P.O. Box 25  
Summerville, SC 29484

Job Number: 400-2550.1  
Lab Sample Id: 400-2550-10  
Date Sampled: 05/17/2005 0000  
Date Received: 05/20/2005 0950

Client Sample ID: MW-10R

|                         | Result/Qualifier | Unit | RL   | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|------|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |      |        |                 |                 |          |
| Benzene                 | ND               | ug/L | 1.0  | 8260B  | 05/29/2005 1536 | 05/29/2005 1536 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 0.90 | 8260B  | 05/29/2005 1536 | 05/29/2005 1536 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 0.89 | 8260B  | 05/29/2005 1536 | 05/29/2005 1536 | 1.0      |
| Toluene                 | ND               | ug/L | 0.80 | 8260B  | 05/29/2005 1536 | 05/29/2005 1536 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 1.6  | 8260B  | 05/29/2005 1536 | 05/29/2005 1536 | 1.0      |
| Naphthalene             | ND               | ug/L | 1.8  | 8260B  | 05/29/2005 1536 | 05/29/2005 1536 | 1.0      |

STL Pensacola

Mr. Tim Nickel  
Terry Environmental Services  
P.O. Box 25  
Summerville, SC 29484

Job Number: 400-2550.1  
Lab Sample Id: 400-2550-11  
Date Sampled: 05/17/2005 0000  
Date Received: 05/20/2005 0950

Client Sample ID: MW-11

|                         | Result/Qualifier | Unit | RL   | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|------|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |      |        |                 |                 |          |
| Benzene                 | ND               | ug/L | 1.0  | 8260B  | 05/29/2005 1612 | 05/29/2005 1612 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 0.90 | 8260B  | 05/29/2005 1612 | 05/29/2005 1612 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 0.89 | 8260B  | 05/29/2005 1612 | 05/29/2005 1612 | 1.0      |
| Toluene                 | ND               | ug/L | 0.80 | 8260B  | 05/29/2005 1612 | 05/29/2005 1612 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 1.6  | 8260B  | 05/29/2005 1612 | 05/29/2005 1612 | 1.0      |
| Naphthalene             | ND               | ug/L | 1.8  | 8260B  | 05/29/2005 1612 | 05/29/2005 1612 | 1.0      |

STL Pensacola

05/29/2005 1612

Mr. Tim Nickel  
Terry Environmental Services  
P.O. Box 25  
Summerville, SC 29484

Job Number: 400-2550.1  
Lab Sample Id: 400-2550-12  
Date Sampled: 05/17/2005 0000  
Date Received: 05/20/2005 0950

Client Sample ID: MW-11R

**GC/MS VOA**

|                         | Result/Qualifier | Unit | RL   | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|------|--------|-----------------|-----------------|----------|
| Benzene                 | ND               | ug/L | 1.0  | 8260B  | 05/29/2005 1647 | 05/29/2005 1647 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 0.90 | 8260B  | 05/29/2005 1647 | 05/29/2005 1647 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 0.89 | 8260B  | 05/29/2005 1647 | 05/29/2005 1647 | 1.0      |
| Toluene                 | ND               | ug/L | 0.80 | 8260B  | 05/29/2005 1647 | 05/29/2005 1647 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 1.6  | 8260B  | 05/29/2005 1647 | 05/29/2005 1647 | 1.0      |
| Naphthalene             | ND               | ug/L | 1.8  | 8260B  | 05/29/2005 1647 | 05/29/2005 1647 | 1.0      |

STL Pensacola



Mr. Tim Nickel  
Terry Environmental Services  
P.O. Box 25  
Summerville, SC 29484

Job Number: 400-2550.1  
Lab Sample Id: 400-2550-13  
Date Sampled: 05/17/2005 0000  
Date Received: 05/20/2005 0950

Client Sample ID: MW-12

|                         | Result/Qualifier | Unit | RL   | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|------|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |      |        |                 |                 |          |
| Benzene                 | ND               | ug/L | 1.0  | 8260B  | 05/29/2005 1723 | 05/29/2005 1723 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 0.90 | 8260B  | 05/29/2005 1723 | 05/29/2005 1723 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 0.89 | 8260B  | 05/29/2005 1723 | 05/29/2005 1723 | 1.0      |
| Toluene                 | ND               | ug/L | 0.80 | 8260B  | 05/29/2005 1723 | 05/29/2005 1723 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 1.6  | 8260B  | 05/29/2005 1723 | 05/29/2005 1723 | 1.0      |
| Naphthalene             | ND               | ug/L | 1.8  | 8260B  | 05/29/2005 1723 | 05/29/2005 1723 | 1.0      |

STL Pensacola

Mr. Tim Nickel  
Terry Environmental Services  
P.O. Box 25  
Summerville, SC 29484

Job Number: 400-2550.1  
Lab Sample Id: 400-2550-14  
Date Sampled: 05/17/2005 0000  
Date Received: 05/20/2005 0950

Client Sample ID: MW-13

|                         | Result/Qualifier | Unit | RL   | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|------|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |      |        |                 |                 |          |
| Benzene                 | ND               | ug/L | 1.0  | 8260B  | 05/29/2005 1758 | 05/29/2005 1758 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 0.90 | 8260B  | 05/29/2005 1758 | 05/29/2005 1758 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 0.89 | 8260B  | 05/29/2005 1758 | 05/29/2005 1758 | 1.0      |
| Toluene                 | ND               | ug/L | 0.80 | 8260B  | 05/29/2005 1758 | 05/29/2005 1758 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 1.6  | 8260B  | 05/29/2005 1758 | 05/29/2005 1758 | 1.0      |
| Naphthalene             | ND               | ug/L | 1.8  | 8260B  | 05/29/2005 1758 | 05/29/2005 1758 | 1.0      |

STL Pensacola

Mr. Tim Nickel  
Terry Environmental Services  
P.O. Box 25  
Summerville, SC 29484

Job Number: 400-2550.1  
Lab Sample Id: 400-2550-15  
Date Sampled: 05/17/2005 0000  
Date Received: 05/20/2005 0950

Client Sample ID: MW-14

|                         | Result/Qualifier | Unit | RL   | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|------|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |      |        |                 |                 |          |
| Benzene                 | ND               | ug/L | 1.0  | 8260B  | 05/29/2005 1834 | 05/29/2005 1834 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 0.90 | 8260B  | 05/29/2005 1834 | 05/29/2005 1834 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 0.89 | 8260B  | 05/29/2005 1834 | 05/29/2005 1834 | 1.0      |
| Toluene                 | ND               | ug/L | 0.80 | 8260B  | 05/29/2005 1834 | 05/29/2005 1834 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 1.6  | 8260B  | 05/29/2005 1834 | 05/29/2005 1834 | 1.0      |
| Naphthalene             | ND               | ug/L | 1.8  | 8260B  | 05/29/2005 1834 | 05/29/2005 1834 | 1.0      |

STL Pensacola

Mr. Tim Nickel  
Terry Environmental Services  
P.O. Box 25  
Summerville, SC 29484

Job Number: 400-2550.1  
Lab Sample Id: 400-2550-16  
Date Sampled: 05/17/2005 0000  
Date Received: 05/20/2005 0950

Client Sample ID: WSW-1

|                         | Result/Qualifier | Unit | RL   | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|------|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |      |        |                 |                 |          |
| Benzene                 | ND               | ug/L | 1.0  | 8260B  | 05/29/2005 1052 | 05/29/2005 1052 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 0.90 | 8260B  | 05/29/2005 1052 | 05/29/2005 1052 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 0.89 | 8260B  | 05/29/2005 1052 | 05/29/2005 1052 | 1.0      |
| Toluene                 | ND               | ug/L | 0.80 | 8260B  | 05/29/2005 1052 | 05/29/2005 1052 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 1.6  | 8260B  | 05/29/2005 1052 | 05/29/2005 1052 | 1.0      |
| Naphthalene             | ND               | ug/L | 1.8  | 8260B  | 05/29/2005 1052 | 05/29/2005 1052 | 1.0      |

STL Pensacola

# DATA REPORTING QUALIFIERS

Client: Terry Environmental Services

Job Number: 400-2550.1

| Lab Section | Qualifier | Description  |
|-------------|-----------|--|
| GC/MS VOA   | J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

STL Pensacola

□□□□ □□ □□□□

Printed on: 11/11/00 10:11 AM

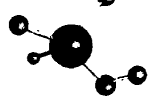
0.4°C

### Access Analytical - Chain of Custody Record

Project Submission # 2230.8

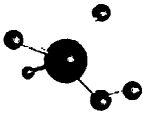
PO # \_\_\_\_\_

Laboratory ID: 40-2850

| Company Name: <u>Terry Environmental Services</u>   |                |   |                  |   | Preservative: (*see codes below)                        |  |  |   |  |  |  |  |  |  |                       | * Preservative Codes (place corresponding # in block above analysis field): 0=None, 1=HCL, 2=HNO <sub>3</sub> , 3=H <sub>2</sub> SO <sub>4</sub> , 4=NaOH, 5=Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , 6=NaHSO <sub>3</sub> , Other=Specify<br><br> ACCESS ANALYTICAL, INC.<br><br>Phone: (803) 781-4243<br>7478 Carlisle Street Fax: 781-4303<br>Irmo, SC 29063 Toll Free (888) 315-4243<br>www.accessanalyticalinc.com |
|---|----------------|---|------------------|---|---|--|--|---|--|--|--|--|--|--|-----------------------|---|
| Report To: <u>Tim Nickel</u>  |                |   |                  |   | REQUESTED LAB ANALYSIS: ↓<br><br><u>BTEX, NAP, MTBE</u> |  |  |   |  |  |  |  |  |  |                       |   |
| Address: <u>P.O. Box 25</u>   |                |   |                  |   |   |  |  |   |  |  |  |  |  |  |                       |   |
| City: <u>Summerville</u> State: <u>SC</u> Zip: <u>29484</u>   |                |   |                  |   |   |  |  |   |  |  |  |  |  |  |                       |   |
| Phone: <u>843-873-8200</u> Fax: <u>843-873-8765</u>   |                |   |                  |   |   |  |  |   |  |  |  |  |  |  |                       |   |
| Email: _____  |                |   |                  |   |   |  |  |   |  |  |  |  |  |  |                       |   |
| Project Name: <u>2230.8</u>   |                |   |                  |   |   |  |  |   |  |  |  |  |  |  |                       |   |
| Sampled By (print): <u>Mike Derrenbacher</u>  |                |   |                  |   |   |  |  |   |  |  |  |  |  |  |                       |   |
| Sample Label  | Date Collected | Time Collected  | Matrix           | # of Cont   |   |  |  |   |  |  |  |  |  |  |                       |   |
| MW-1  | 5/17/05        | See Bottle  | H <sub>2</sub> O | 2   | X   |  |  |   |  |  |  |  |  |  |                       |   |
| MW-1D   |                |   |                  |   | X   |  |  |   |  |  |  |  |  |  | Notes Ref. Quote #602 |   |
| MW-2  |                |   |                  |   | X   |  |  |   |  |  |  |  |  |  |                       |   |
| MW-3R   |                |   |                  |   | X   |  |  |   |  |  |  |  |  |  |                       |   |
| MW-4  |                |   |                  |   | X   |  |  |   |  |  |  |  |  |  |                       |   |
| MW-5  |                |   |                  |   | X   |  |  |   |  |  |  |  |  |  |                       |   |
| MW-6  |                |   |                  |   | X   |  |  |   |  |  |  |  |  |  |                       |   |
| MW-7  |                |   |                  |   | X   |  |  |   |  |  |  |  |  |  |                       |   |
| MW-10   |                |   |                  |   | X   |  |  |   |  |  |  |  |  |  |                       |   |
| MW-10R  |                |   |                  |   | X   |  |  |   |  |  |  |  |  |  |                       |   |
| Turnaround Time:<br><input checked="" type="checkbox"/> Std. (5-7 Bus. days)<br><input type="checkbox"/> RUSH*<br>*Date Required: _____<br>(For rush work, results faxed by end of business day on date required) |                | Samples Recd. on Ice?<br><input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No |                  | Project Location:<br><input checked="" type="checkbox"/> SC<br><input type="checkbox"/> NC<br>Other _____ (specify) |   | Relinquished By:<br><u>[Signature]</u><br><u>[Signature]</u><br><u>FedEx</u> |  | Date:<br><u>5/19/05</u><br><u>5/19/05</u><br><u>5/20/05</u> |  | Time:<br><u>1546</u><br><u>1800</u><br><u>0950</u> |  | Received By:<br><u>[Signature]</u><br><u>FedEx</u><br><u>[Signature]</u> |  |  |                       |   |

## Access Analytical - Chain of Custody Record

Project Submission # 2230.8 PO # \_\_\_\_\_ Laboratory ID: 400-2550

| Company Name: <b>Terry Environmental Services</b>   |                |                |                  | Preservative: (*see codes below)  |  |  |  |                                |  |                         |  |                               |  |                               |  |
|---|----------------|----------------|------------------|---|--|--|--|--------------------------------|--|-------------------------|--|-------------------------------|--|-------------------------------|--|
| Report To: <b>Tim Nickel</b>  |                |                |                  | REQUESTED LAB ANALYSIS: ↓<br><b>BTEX, NAP, MTBE</b>   |  |  |  |                                |  |                         |  |                               |  |                               |  |
| Address: <b>P.O. Box 25</b>   |                |                |                  |   |  |  |  |                                |  |                         |  |                               |  |                               |  |
| City: <b>Summerville</b> State: <b>SC</b> Zip: <b>29484</b>   |                |                |                  |   |  |  |  |                                |  |                         |  |                               |  |                               |  |
| Phone: <b>843-833-8200</b> Fax: <b>843-833-8765</b>   |                |                |                  |   |  |  |  |                                |  |                         |  |                               |  |                               |  |
| Email: _____  |                |                |                  |   |  |  |  |                                |  |                         |  |                               |  |                               |  |
| Project Name: <b>2230.8</b>   |                |                |                  |   |  | * Preservative Codes (place corresponding # in block above analysis field): 0=None, 1=HCL, 2=HNO <sub>3</sub> , 3=H <sub>2</sub> SO <sub>4</sub> , 4=NaOH, 5=Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , 6=NaHSO <sub>3</sub> , Other=Specify<br><br> ACCESS ANALYTICAL, INC.<br><br>Phone: (803) 781-4243<br>Fax: 781-4303<br>7478 Carlisle Street<br>Irmo, SC 29063 Toll Free (888) 315-4243<br>www.accessanalyticalinc.com |  |                                |  |                         |  |                               |  |                               |  |
| Sampled By (print): <b>Mike Derrenbacher</b>  |                |                |                  |   |  |  |  |                                |  |                         |  |                               |  |                               |  |
|   |                |                |                  |   |  |  |  |                                |  |                         |  |                               |  |                               |  |
| Sample Label  | Date Collected | Time Collected | Matrix           | # of Cont   |  |  |  |                                |  |                         |  |                               |  |                               |  |
| MW-11   | 5/17/05        | See Bottle     | H <sub>2</sub> O | 2   |  | X  |  |                                |  |                         |  |                               |  |                               |  |
| MW-11R  |                |                |                  |   |  | X  |  |                                |  |                         |  |                               |  |                               |  |
| MW-12   |                |                |                  |   |  | X  |  |                                |  |                         |  |                               |  |                               |  |
| MW-13   |                |                |                  |   |  | X  |  |                                |  |                         |  |                               |  |                               |  |
| MW-14   |                |                |                  |   |  | X  |  |                                |  |                         |  |                               |  |                               |  |
| WSW-1   |                |                |                  |   |  | X  |  |                                |  |                         |  |                               |  |                               |  |
|   |                |                |                  |   |  |  |  |                                |  |                         |  |                               |  |                               |  |
|   |                |                |                  |   |  |  |  |                                |  |                         |  |                               |  |                               |  |
| Turnaround Time:<br><input checked="" type="checkbox"/> Std. (5-7 Bus. days)<br><input type="checkbox"/> RUSH*<br>*Date Required: _____<br>(For rush work, results faxed by end of business day on date required) |                |                |                  | Samples Recd. on Ice?<br><input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No |  | Project Location:<br><input checked="" type="checkbox"/> SC<br><input type="checkbox"/> NC<br>Other _____ (specify)  |  | Relinquished By:<br><b>MEC</b> |  | Date:<br><b>5/17/05</b> |  | Time:<br><b>1540</b>          |  | Received By:<br><b>Rub...</b> |  |
|   |                |                |                  |   |  | Relinquished By:<br><b>RW B...</b>   |  | Date:<br><b>5/19/05</b>        |  | Time:<br><b>1800</b>    |  | Received By:<br><b>Fed Ex</b> |  |                               |  |
|   |                |                |                  |   |  | Relinquished By:<br><b>Fed Ex</b>  |  | Date:<br><b>5/20/05</b>        |  | Time:<br><b>0950</b>    |  | Received By:<br><b>Ch...</b>  |  |                               |  |

*Note: Rel. Quote #602*

NOTES / COMMENTS

**APPENDIX 4**  
**Disposal Manifest**





5400 Legacy Drive, Cluster II, B3  
 Plano, Texas 75024  
 800-669-5740 www.safety-kleen.com



FOR SERVICE CALL  
 BRANCH MANAGER  
 DOC. EXP. 08/06/05  
 CUSTOMER

SALES DATE 08-05-05  
 SALES REP NO. 431543  
 CUSTOMER P.O. NUMBER  
 1753 NORTH MAIN STREET  
 SUMMERVILLE SC 29483  
 FERRY ENVIRONMENTAL SERVICES  
 1753 NORTH MAIN STREET  
 PO BOX 25  
 SUMMERVILLE SC 29483

CHLORINE TEST RESULTS  
 SK DOT NUMBER  
 CC TERM  
 SERVICE (MECHANICAL)  
 CHANGE (ELECTRICAL)  
 CHANGE (SOIL CARE)  
 PROM NO.  
 RELEASE NO.

| DEF | SERVICES        | UNIT PRICE | QUANTITY | CHARGE | SALES TAX | TOTAL CHARGE | CHLORINE TEST RESULTS | SK DOT NUMBER | CC TERM | SERVICE (MECHANICAL) | CHANGE (ELECTRICAL) | CHANGE (SOIL CARE) | PROM NO. | RELEASE NO. |
|-----|-----------------|------------|----------|--------|-----------|--------------|-----------------------|---------------|---------|----------------------|---------------------|--------------------|----------|-------------|
| 1   | HAZARDOUS WASTE | 1.00000    | 1        | 1.00   | 0.00      | 1.00         |                       |               |         |                      |                     |                    |          |             |
| 2   | HAZARDOUS WASTE | 1.00000    | 1        | 1.00   | 0.00      | 1.00         |                       |               |         |                      |                     |                    |          |             |
| 3   | HAZARDOUS WASTE | 1.00000    | 1        | 1.00   | 0.00      | 1.00         |                       |               |         |                      |                     |                    |          |             |
| 4   | HAZARDOUS WASTE | 1.00000    | 1        | 1.00   | 0.00      | 1.00         |                       |               |         |                      |                     |                    |          |             |
| 5   | HAZARDOUS WASTE | 1.00000    | 1        | 1.00   | 0.00      | 1.00         |                       |               |         |                      |                     |                    |          |             |
| 6   | HAZARDOUS WASTE | 1.00000    | 1        | 1.00   | 0.00      | 1.00         |                       |               |         |                      |                     |                    |          |             |
| 7   | HAZARDOUS WASTE | 1.00000    | 1        | 1.00   | 0.00      | 1.00         |                       |               |         |                      |                     |                    |          |             |
| 8   | HAZARDOUS WASTE | 1.00000    | 1        | 1.00   | 0.00      | 1.00         |                       |               |         |                      |                     |                    |          |             |
| 9   | HAZARDOUS WASTE | 1.00000    | 1        | 1.00   | 0.00      | 1.00         |                       |               |         |                      |                     |                    |          |             |

GENERATOR STATUS: CHECK ONLY ONE BOX BELOW  
 1 NO PREQUAL REQUIRED, NO HALOGEN TEST  
 2 NO PREQUAL REQUIRED, HALOGEN TEST AT PICK-UP  
 3 PREQUAL REQUIRED, NO HALOGEN TEST  
 4 PREQUAL REQUIRED, HALOGEN TEST AT PICK-UP  
 5 REFER TO REVERSE SIDE FOR DEFINITIONS  
 SOG/LOG  
 CESSLOG  
 CLASSIFICATION \*  
 HAZARDOUS WASTE  
 GENERATOR  
 VEHICLE  
 FLUIDS  
 NON-VEHICLE  
 OTHER  
 1 NO PREQUAL REQUIRED, NO HALOGEN TEST  
 2 NO PREQUAL REQUIRED, HALOGEN TEST AT PICK-UP  
 3 PREQUAL REQUIRED, NO HALOGEN TEST  
 4 PREQUAL REQUIRED, HALOGEN TEST AT PICK-UP  
 5 REFER TO REVERSE SIDE FOR DEFINITIONS

USED OIL AND WATER MIXTURE (NOT USED HAZARDOUS MATERIAL)  
 INTERMEDIATE FACILITY NAME AND ADDRESS  
 SAFETY-KLEEN SYSTEMS, INC.  
 NORTH CHARLES ST SC 29418  
 TOTAL RECEIVED  
 CASH  
 CHECK NUMBER  
 TOOWAS SERVICE/SALE  
 PREVIOUS BALANCE AS FOLLOWS  
 AMOUNT \$  
 INVOICE #  
 AMOUNT \$  
 CREDIT CARD NO.  
 EXPIR DATE  
 MANIFEST CODE  
 SEQ #  
 MANIFEST NO. 7XK000050930  
 GENERATOR EPA ID NO. XXXXX  
 USA EPA ID NO. 7XK000050930  
 STATE ID NO. SC P884595304  
 USA EPA ID NO. SC P884595304  
 TOTAL DUE 12700  
 SIGNATURE  
 PRINT NAME  
 DATE 6/18/05  
 SIGNATURE  
 PRINT NAME  
 DATE 6/18/05

ADDITIONAL TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS DOCUMENT ARE INCORPORATED HEREWITH MADE A PART HEREOF.  
 U.S. Environmental Protection Agency and the U.S. Department of Transportation  
 and labels, and are in plain condition as transported according to the applicable regulations of the U.S. Environmental Protection Agency and the U.S. Department of Transportation.  
 Customer certifies that the above-stated material is properly classified, described, packaged, marked and labeled, and is in plain condition as transported according to the applicable regulations of the U.S. Environmental Protection Agency and the U.S. Department of Transportation.  
 CHANGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT RECEIPT SECTION.  
 DO NOT WRITE IN THE AREA BELOW  
 0029320843  
 0002-9435-67

SALES DATE 08-05-05  
 SALES REP NO. 431543  
 CUSTOMER P.O. NUMBER  
 1753 NORTH MAIN STREET  
 SUMMERVILLE SC 29483  
 FERRY ENVIRONMENTAL SERVICES  
 1753 NORTH MAIN STREET  
 PO BOX 25  
 SUMMERVILLE SC 29483

OIL RECOVERY SERVICE/

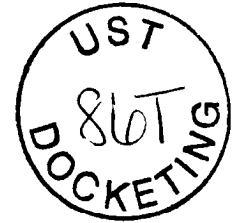


C. Earl Hunter, Commissioner

*Promoting and protecting the health of the public and the environment.*

**AUG 04 2005**

**MS CYNDI SUTTLES  
R L JORDAN OIL CO OF NC  
PO BOX 2527  
SPARTANBURG SC 29304**



Re: Hot Spot #3005, SC Hwy. 221, Chesnee, SC  
UST Permit # 12719; CA #24976  
Release #2 reported August 4, 2003  
Monitoring Report received June 22, 2005  
Spartanburg County

Dear Ms. Suttles:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing your own contractor.

The next scope of work to be implemented at this site is completion of a comprehensive sampling event to verify natural attenuation. Cost Agreement #24976 has been approved in the amount shown on the enclosed Approved Cost Agreement to complete the necessary work. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. **Report of Findings and the invoice are due within 60 days from the date of this letter.** Please have your contractor submit sampling results to the Program in a monitoring report containing the following items:

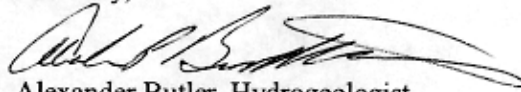
- A narrative portion documenting current site conditions and noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event. The report shall also contain well purging data, pH, specific conductivity, water temperature, PID readings (where applicable), turbidity comments, and levels of dissolved oxygen.
- Groundwater elevations, depth to groundwater, measurable free product thickness (where applicable), total well depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the Department, shall be presented in tabular form. Groundwater laboratory analytical data for all monitoring wells shall be presented in tabular format.
- A groundwater elevation contour map of the site based on current groundwater potentiometric data.
- A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well.
- Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.
- The report must be signed and sealed by a professional geologist or engineer registered in the State of South Carolina.

According to our records, the release was reported to the Bureau on August 4, 2003. In accordance with Section 44-2-40(D) of the State Underground Petroleum Environmental Response Bank (SUPERB) Act, you are responsible for the first \$25,000 for site rehabilitation. To insure that any expenditure you make applies to this \$25,000 deductible, it is prudent for this agency to pre-approve such costs along with your technical plan of action. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Eligible costs exceeding the \$25,000 deductible can be compensated from the SUPERB Account. Please remember that, pursuant to Reg. 61-92, Subpart H, Section 280.114, you are required to notify the Program by certified mail within ten (10) days of commencing a voluntary or involuntary proceeding in bankruptcy. State law also requires that an owner, operator, or guarantor that files for bankruptcy protection must immediately submit the appropriate forms documenting that entity's ability to demonstrate financial responsibility.

The Bureau of Land and Waste Management grants pre-approval for transportation of virgin petroleum contaminated groundwater/soil from the referenced site to a permitted treatment facility. The contaminated groundwater/soil must be properly stored in labeled containers or covered with plastic as appropriate. The contaminated groundwater/soil must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the final report. If the levels of petroleum contamination based on laboratory analysis are below risk-based screening levels, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not compensate for transportation or treatment of clean soil and/or groundwater.

On all correspondence regarding this site, please reference UST Permit #12719. If you have any questions, contact me by phone at (803) 896-6648 or (800) 826-5435 (within South Carolina only), by fax at (803) 896-6245, or by email at [butlerap@dhec.sc.gov](mailto:butlerap@dhec.sc.gov).

Sincerely,



Alexander Butler, Hydrogeologist  
Northeastern SC Corrective Action Section  
Assessment and Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management

enc: Approved Cost Agreement (ACA)

cc: Terry Environmental, PO Box 25, Summerville, SC 29484 (w/ enc)  
Technical File (w/ enc)

# Approved Cost Agreement 976

Facility: 12719 HOT SPOT 3005

BUTLERAP

PO Number: 595934

| <u>Task / Description</u>         | <u>Categories</u> | <u>Item Description</u>          | <u>Qty / Pct</u> | <u>Unit Price</u>   | <u>Amount</u>   |
|-----------------------------------|-------------------|----------------------------------|------------------|---------------------|-----------------|
| 04 MOB/DEMOB                      |                   | B PERSONNEL                      | 2.0000           | 250.00              | 500.00          |
| 10 SAMPLE COLLECTION              |                   | A GROUND WATER                   | 9.0000           | 55.00               | 495.00          |
|                                   |                   | D GROUNDWATER NO-PURGE           | 6.0000           | 35.00               | 210.00          |
| 11 ANALYSES                       | GW GROUNDWATER    | A BTEX+NAPTH+MTBE                | 15.0000          | 100.00              | 1,500.00        |
| 17 DISPOSAL                       |                   | A1 WASTEWATER - PURGING/SAMPLING | 1.0000           | 90.00               | 90.00           |
| 19 RPT/PROJECT MNGT & COORDINATIO |                   | PCT PERCENT                      | 0.1500           | 2,795.00            | 419.25          |
|                                   |                   |                                  |                  | <b>Total Amount</b> | <b>3,214.25</b> |

Ac  
**RECEIVED**

OCT 3 1 2005

UNDERGROUND STORAGE  
TANK PROGRAM

**GROUNDWATER MONITORING REPORT  
HOT SPOT # 3005  
CHESNEE, SOUTH CAROLINA  
SITE ID # 12719  
CP # 24976**

Prepared For:

**SCDHEC BUREAU OF UNDERGROUND TANK MANAGEMENT  
2600 BULL ST.  
COLUMBIA, SC 29201**

Submitted By:



***TERRY ENVIRONMENTAL SERVICES***

**P.O. BOX 25  
SUMMERVILLE, SOUTH CAROLINA 29484  
(843) 873-8200  
Fax (843) 873-8765  
[www.terryenvironmental.com](http://www.terryenvironmental.com)**

**UST CONTRACTOR # 223  
PROJECT # 2230.8A**

**OCTOBER 2005**



**RECEIVED**

OCT 3 1 2005

UNDERGROUND STORAGE  
TANK PROGRAM

**GROUNDWATER MONITORING REPORT  
HOT SPOT # 3005  
CHESNEE, SOUTH CAROLINA  
SITE ID # 12719  
CP # 24976**

Prepared For:

**SCDHEC BUREAU OF UNDERGROUND TANK MANAGEMENT  
2600 BULL ST.  
COLUMBIA, SC 29201**

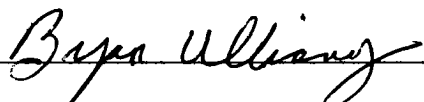
Submitted By:



***TERRY ENVIRONMENTAL SERVICES***

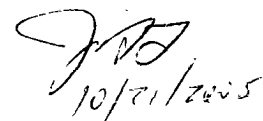
P.O. BOX 25  
SUMMERVILLE, SOUTH CAROLINA 29484  
(843) 873-8200  
Fax (843) 873-8765  
[www.terryenvironmental.com](http://www.terryenvironmental.com)

UST CONTRACTOR # 223  
PROJECT # 2230.8A

  
**BRYAN P. WILLIAMS  
VICE PRESIDENT - OPERATIONS**

  
**JASON A. TERRY, PG  
PRESIDENT**

OCTOBER 2005

  
10/21/2005

**TABLE OF CONTENTS**

| SECTION | DESCRIPTION                          | PAGE |
|---------|--------------------------------------|------|
| 1.0     | INTRODUCTION                         | 1    |
| 2.0     | SITE SPECIFIC ASSESSMENT INFORMATION | 2    |
| 2.1     | Potentiometric Data                  | 2    |
| 2.2     | Groundwater Sampling                 | 3    |
| 3.0     | CONCLUSIONS                          | 4    |

**LIST OF TABLES**

| TABLE | DESCRIPTION                          |   |
|-------|--------------------------------------|---|
| 1     | MONITORING WELL AND GROUNDWATER DATA | 2 |
| 2     | ANALYTICAL DATA                      | 3 |

**LIST OF FIGURES**

| DESCRIPTION                | FIGURE |
|----------------------------|--------|
| SITE LOCATION – HWY MAP    | 1A     |
| SITE LOCATION – USGS MAP   | 1B     |
| SITE MAP                   | 2      |
| POTENTIOMETRIC MAP         | 3      |
| COC SITE MAP – GROUNDWATER | 4      |

**LIST OF APPENDICES**

| DESCRIPTION                  | APPENDIX |
|------------------------------|----------|
| FIGURES                      | 1        |
| GROUNDWATER SAMPLING LOGS    | 2        |
| LABORATORY ANALYTICAL REPORT | 3        |

## 1.0 INTRODUCTION

TERRY Environmental Services, Inc. (TERRY) has been contracted by R. L. Jordan Oil Company to serve as their environmental contractor for the Hot Spot # 3005 site, South Carolina Department of Health and Environmental Control (SCDHEC) Site # 12719. The Groundwater Monitoring Event presented herein has been performed to monitor the contaminant levels at the Hot Spot # 3005 site. The site is located at the intersection of SC Highway 221 (Hampton Street) and North Alabama Avenue in Chesnee, South Carolina (Appendix 1, Figures 1A and 1B). The site is bordered to the north by a school, to the east by a vacant field, and to the south and west by residential properties. A site map is provided as Appendix 1, Figure 2.



## 2.0 SITE SPECIFIC ASSESSMENT INFORMATION

### 2.1 Potentiometric Data

On August 18, 2005 the monitoring wells were gauged with a Keck Oil / Water interface probe by TERRY personnel. Depths to water measurements were collected from all monitoring wells with reference to the top of well casing (TOC). The TOC elevations were obtained from a previous assessment of the site. The potentiometric data is included in Table 1 and on the Groundwater Sampling Logs provided in Appendix 2. Potentiometric contour lines were created utilizing the potentiometric data and linear interpolation between known groundwater elevations. The resulting potentiometric contour map is included in Appendix 1 as Figure 3.

**TABLE 1**  
**MONITORING WELL AND GROUNDWATER DATA**  
**HOT SPOT # 3005**  
**CHESNEE, SOUTH CAROLINA**  
**SCDHEC SITE ID #12719**

| Well # | TOC Elevation | Screened Interval | Depth to Product** (ft) | Depth to Water** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |
|--------|---------------|-------------------|-------------------------|-----------------------|------------------------|----------------------------|
| MW-1   | 104.89        | 20'-30'           | --                      | 23.69                 | --                     | 81.2                       |
| MW-2   | Unknown       | 26'-36'           | --                      | 23.69                 | --                     | UNKNOWN                    |
| MW-3R  | 104.92        | 26'-36'           | --                      | 27.15                 | --                     | 77.77                      |
| MW-4   | 111.32        | 36'-46'           | --                      | 23.25                 | --                     | 88.07                      |
| MW-5   | 103.57        | 22'-32'           | --                      | 29.03                 | --                     | 74.54                      |
| MW-6   | 104.14        | 26'-36'           | --                      | 24.22                 | --                     | 79.92                      |
| MW-7   | 104.52        | 26'-36'           | --                      | 22.74                 | --                     | 81.78                      |
| MW-8   | 101.79        | Unknown           | --                      | 18.05                 | --                     | 83.74                      |
| MW-9   | 105.43        | Unknown           | --                      | 22.95                 | --                     | 82.48                      |
| MW-10  | 96.57         | 17'-27'           | --                      | --                    | --                     | UNKNOWN                    |
| MW-10R | Unknown       | 22'-32'           | --                      | 19.67                 | --                     | UNKNOWN                    |
| MW-11  | 95.15         | 18'-28'           | --                      | --                    | --                     | UNKNOWN                    |
| MW-11R | Unknown       | 22'-32'           | --                      | 20.68                 | --                     | UNKNOWN                    |
| MW-12  | 97.03         | 20'-30'           | --                      | 19.57                 | --                     | 77.46                      |
| MW-13  | 95.89         | 17'-27'           | --                      | 20.62                 | --                     | 75.27                      |
| MW-14  | Unknown       | 21'-31'           | --                      | 24.84                 | --                     | UNKNOWN                    |
| MW-1D  | 104.61        | 55'-60'           | --                      | 24.6                  | --                     | 80.01                      |

\*\* = Relative to top of casing  
 -- = No measurable product  
 CNF = Could Not Find

**2.2 Groundwater Sampling**

TERRY personnel sampled all monitoring wells on site on August 18, 2005. The samples were submitted to Access Analytical, Inc. (SCDHEC Lab Certification # 96023). The groundwater analytical data is provided in Table 2. The analytical data was used to generate a contaminant concentration map for COC's detected by laboratory analyses (Appendix 1, Figure 4). The laboratory analytical report and chain of custody are included in Appendix 3.

**TABLE 2  
ANALYTICAL DATA  
HOT SPOT # 3005  
CHESNEE, SOUTH CAROLINA  
SCDHEC SITE ID #12719**

| Well # | Benzene<br>(5 ug/l) | Toluene<br>(1000 ug/l) | Ethylbenzene<br>(700 ug/l) | Xylenes<br>(10,000 ug/l) | Naphthalene<br>(25 ug/l) | MTBE<br>(40 ug/l) |
|--------|---------------------|------------------------|----------------------------|--------------------------|--------------------------|-------------------|
| MW-1   | <b>85</b>           | 110                    | 42                         | 170                      | <b>41</b>                | <5.0              |
| MW-2   | <b>90</b>           | 100                    | 78                         | 350                      | <b>94</b>                | 8.9               |
| MW-3R  | <b>270</b>          | 41                     | 170                        | 880                      | <b>430</b>               | <b>330</b>        |
| MW-4   | <1.0                | <5.0                   | <5.0                       | <10                      | <5.0                     | <5.0              |
| MW-5   | <1.0                | <5.0                   | <5.0                       | <10                      | <5.0                     | <5.0              |
| MW-6   | <b>7.8</b>          | 6.3                    | 5.5                        | 52                       | 22                       | 6.8               |
| MW-7   | <1.0                | <5.0                   | <5.0                       | <10                      | <5.0                     | <5.0              |
| MW-8   | <1.0                | <5.0                   | <5.0                       | <10                      | <5.0                     | <5.0              |
| MW-9   | <1.0                | <5.0                   | <5.0                       | <10                      | <5.0                     | <5.0              |
| MW-10  | NS                  | NS                     | NS                         | NS                       | NS                       | NS                |
| MW-10R | <1.0                | <5.0                   | <5.0                       | <10                      | <5.0                     | <5.0              |
| MW-11  | NS                  | NS                     | NS                         | NS                       | NS                       | NS                |
| MW-11R | <1.0                | <5.0                   | <5.0                       | <10                      | <5.0                     | <5.0              |
| MW-12  | <1.0                | <5.0                   | <5.0                       | <10                      | <5.0                     | <5.0              |
| MW-13  | <1.0                | <5.0                   | <5.0                       | <10                      | <5.0                     | <5.0              |
| MW-14  | <1.0                | <5.0                   | <5.0                       | <10                      | <5.0                     | <5.0              |
| MW-1D  | <1.0                | <5.0                   | <5.0                       | <10                      | <5.0                     | <5.0              |

MTBE - Methyl Tertiary Butyl Ether

NS - Not Sampled

All Concentrations in ug/L

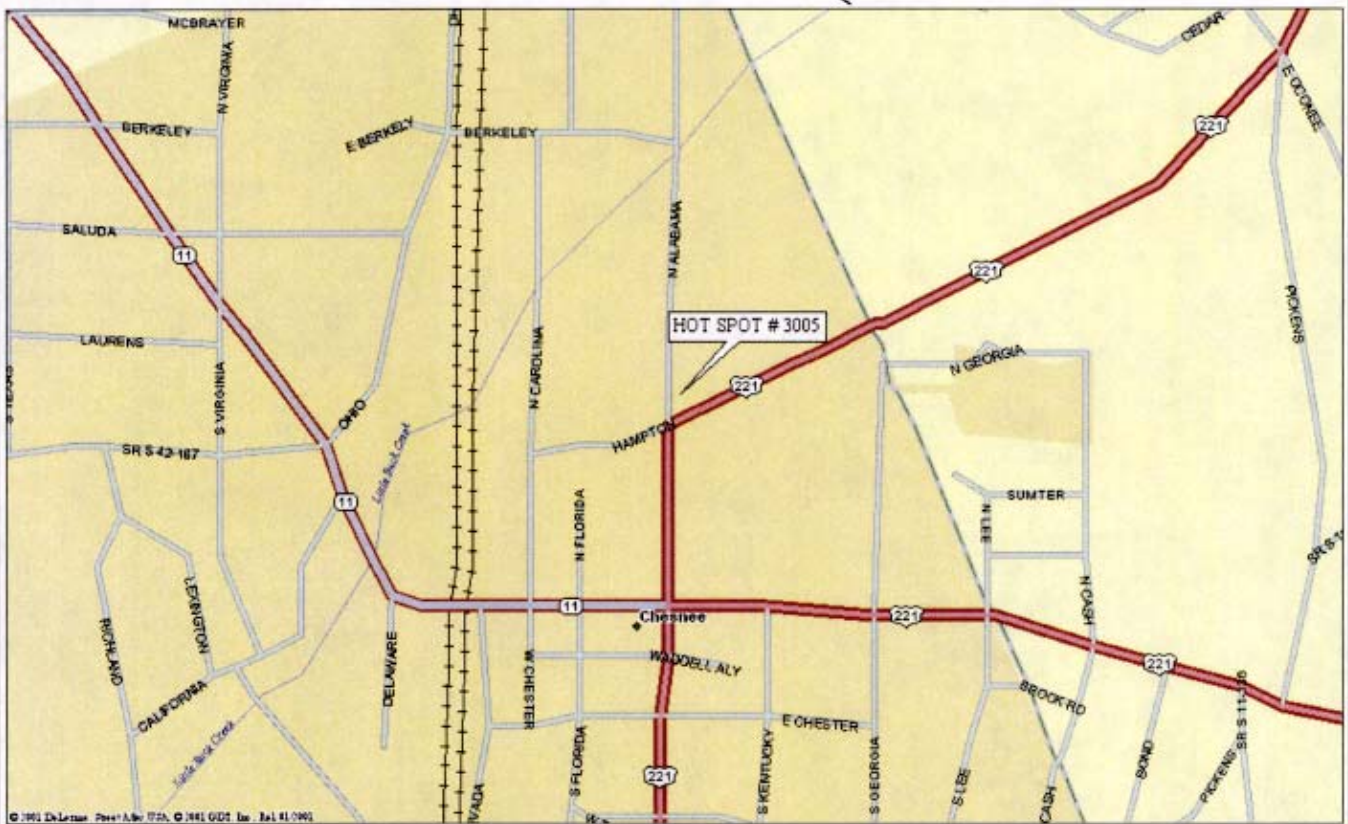
Values in **BOLD** are above RBSL's

### 3.0 CONCLUSIONS

The laboratory results indicate groundwater contamination above RBSL's in monitoring wells MW-1, MW-2, MW-3R, and MW-6. The remaining wells sampled did not have concentrations of the contaminants of concern above or equal to laboratory reporting limits. Although a statistical comparison of the May 2005 versus August 2005 data was beyond the scope of the directive, there does not appear to be a statistically significant difference between the two events. This tends to indicate a stable plume.

## **APPENDIX 1**

### **Figures**



**TERRY ENVIRONMENTAL SERVICES**

*...providing our clients with the very best environmental services available,  
actually understanding our Clients' objectives,  
and making their objectives our own!*

P.O. BOX 25 SUMMERVILLE, SOUTH CAROLINA 29484 1-800-325-0605

[www.terryenvironmental.com](http://www.terryenvironmental.com)

**FIGURE 1A**

SITE LOCATION – HIGHWAY MAP

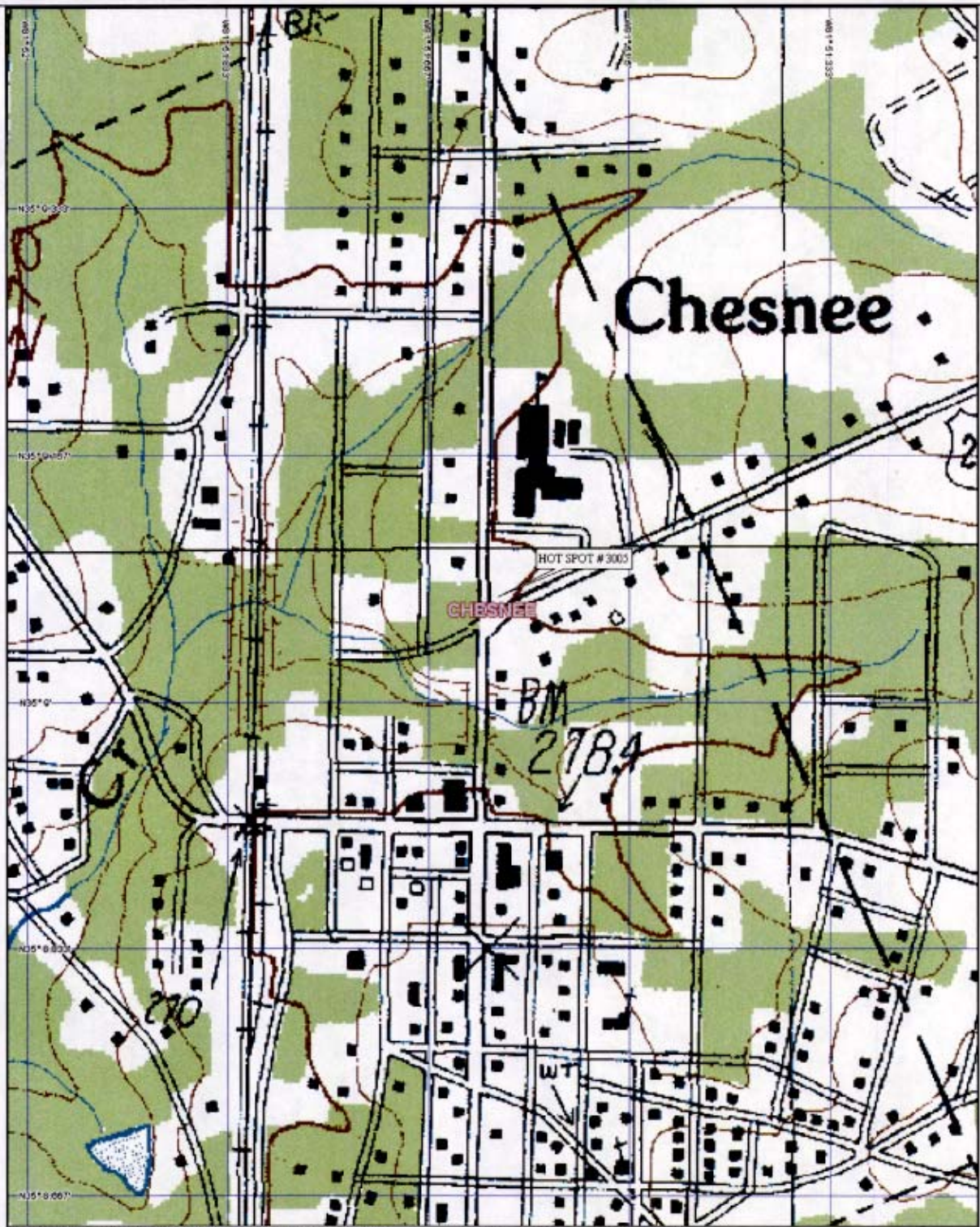
HOT SPOT # 3005

CHESNEE, SOUTH CAROLINA

SCDHEC ID# 12719

PROJECT # 2230.8A

OCTOBER 2005



3-D TopoQuad Copyright © 1999 DeLorme, Yorktown, ME 04096 Source Data: USGS 150 ft Scale: 1:6,400 Detail: 15:0 Datum: WGS84



**TERRY ENVIRONMENTAL SERVICES**

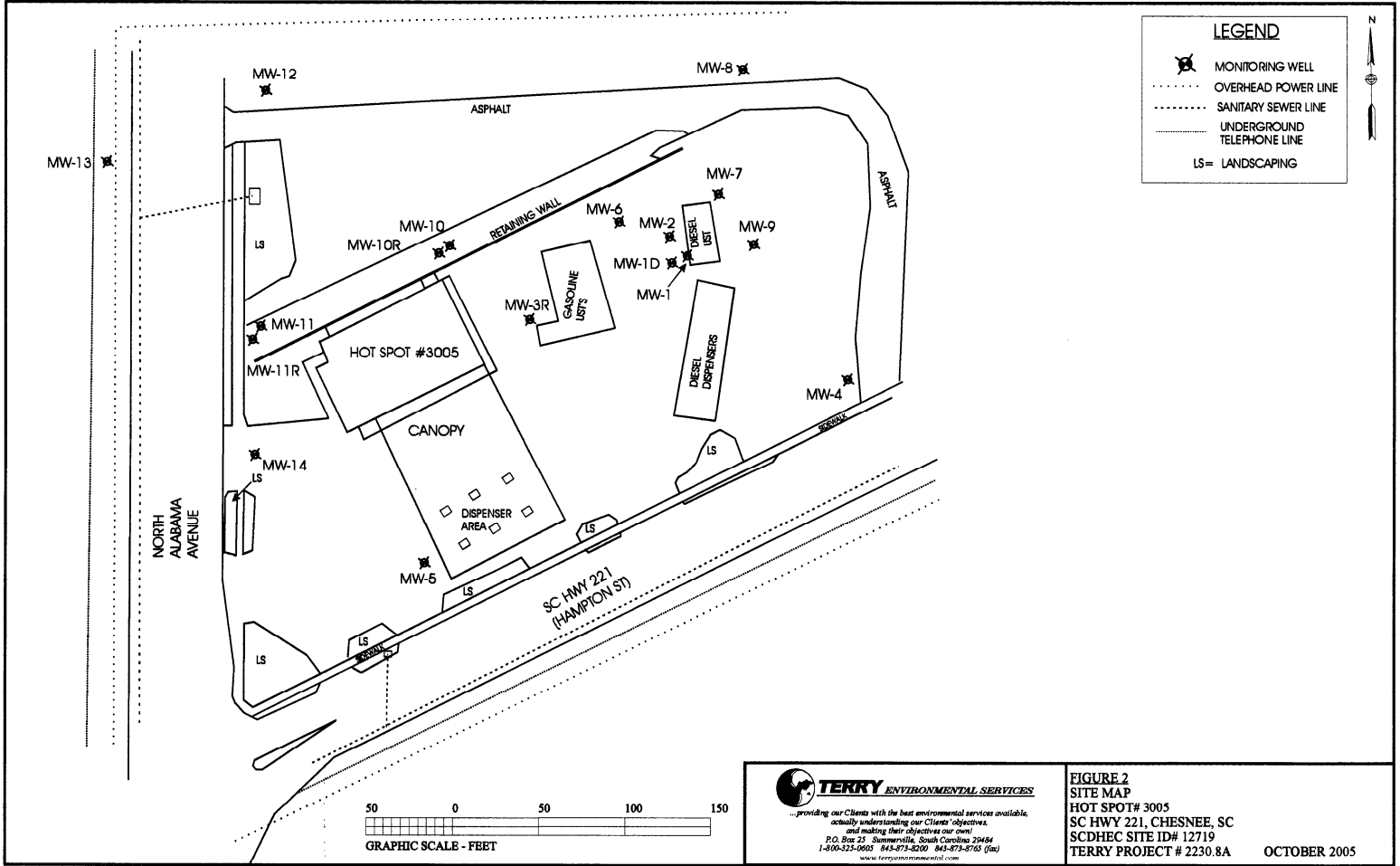
*...providing our clients with the very best environmental services available,  
actually understanding our Clients' objectives,  
and making their objectives our own!*

P.O. BOX 25 SUMMERVILLE, SOUTH CAROLINA 29484 1-800-325-0605

[www.terryenvironmental.com](http://www.terryenvironmental.com)

**FIGURE 1B**

SITE LOCATION – USGS MAP  
HOT SPOT #3005  
CHESNEE, SOUTH CAROLINA  
SCDHEC SITE ID# 12719  
PROJECT # 2230.8A  
OCTOBER 2005

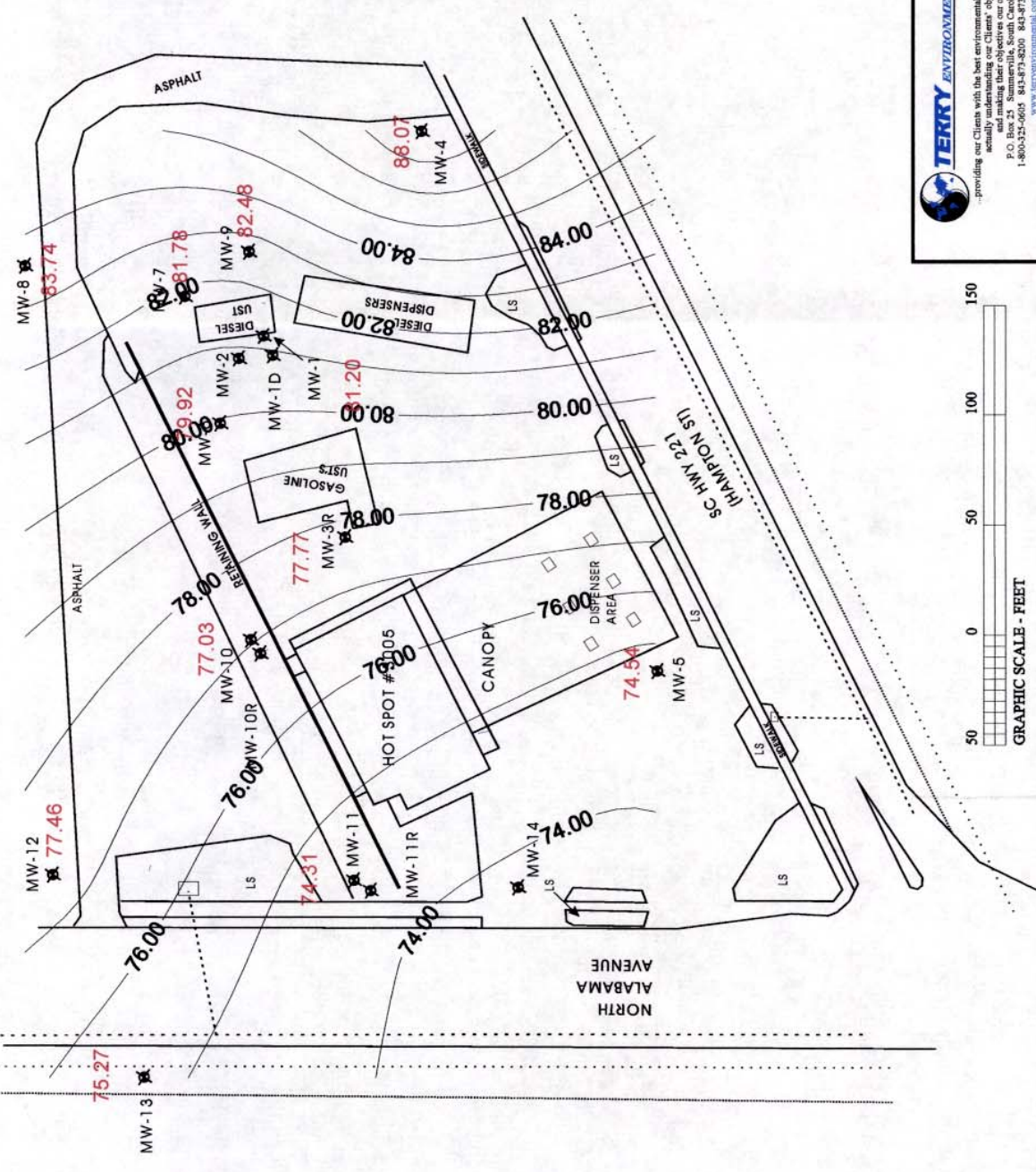




**LEGEND**

- MONITORING WELL
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- UNDERGROUND TELEPHONE LINE
- LS= LANDSCAPING
- POTENTIOMETRIC CONTOUR LINE OF ELEVATION INTERVAL
- POTENTIOMETRIC ELEVATION AT MONITORING WELL

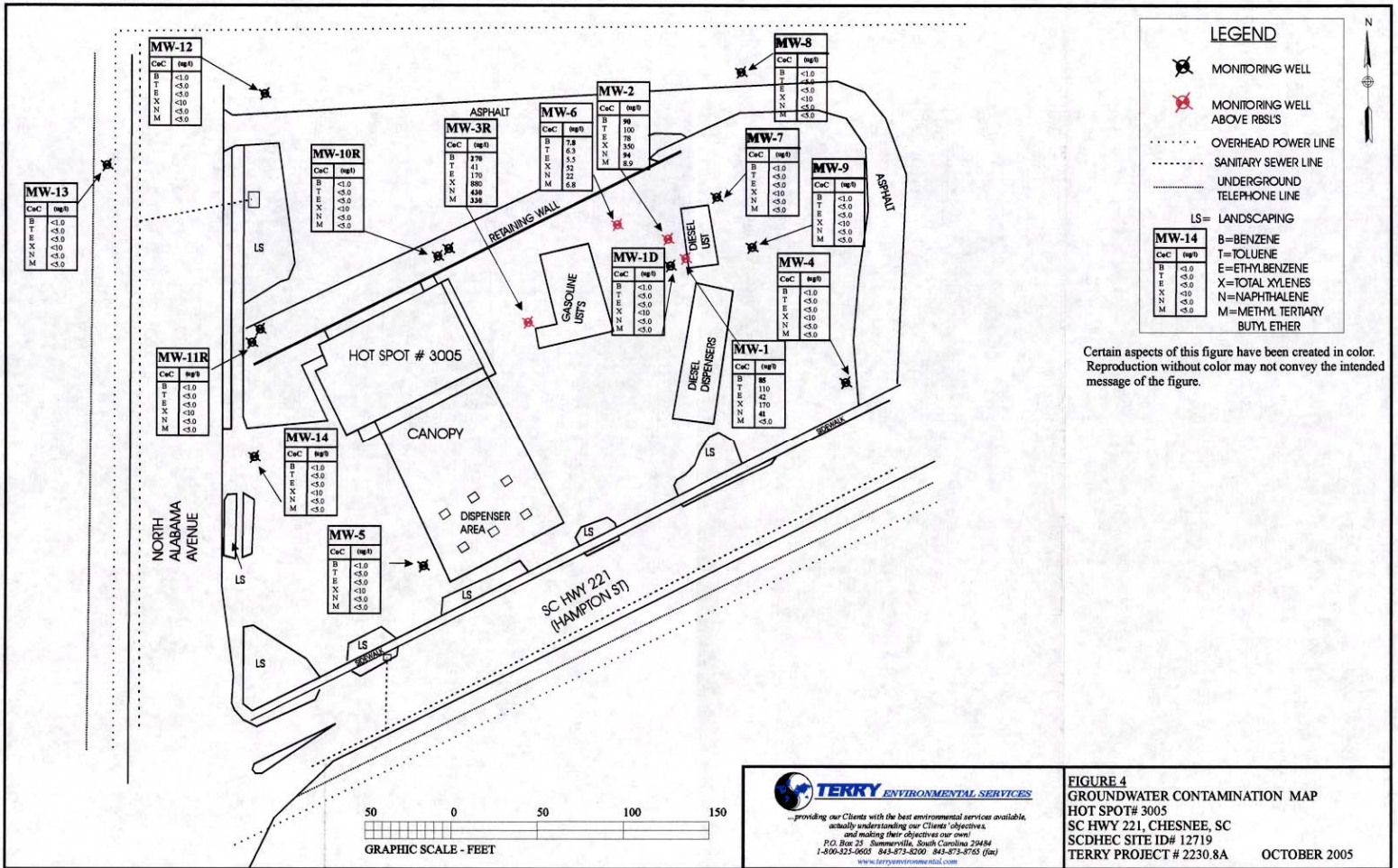
Certain aspects of this figure have been created in color. Reproduction without color may not convey the intended message of the figure.



**TERRY ENVIRONMENTAL SERVICES**  
 providing our Clients with the best environmental services available, actually understanding our Clients' objectives, P.O. Box 25, Sock Point, Chesnee, SC 29624  
 1-800-325-0605 843-873-8200 843-873-8765 (fax)  
[www.terryenvironmental.com](http://www.terryenvironmental.com)

**FIGURE 3**  
**POTENTIOMETRIC MAP**  
 HOT SPOT # 3005  
 SC HWY 221, CHESNEE, SC  
 SCDHEC SITE ID# 12719  
 TERRY PROJECT # 2230.8A  
 OCTOBER 2005





## **APPENDIX 2**

### **Groundwater Sampling Logs**

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|   |               |  |               |
|---|---------------|--|---------------|
| TERRY Project #: <u>2230.8</u>                                    |               | Well #: <u>MW-1</u>                                      |               |
| Project Name: <u>Hot Spot 3005</u>                                |               | Well Diameter: <u>2</u> INCHES                           |               |
| Date: <u>8/18/05</u>  |               | Total Well Depth: <u>30.0</u> FEET                       |               |
| Field Personnel: <u>Edward Evans</u>                              |               | Depth to Groundwater: <u>23.690</u> FEET                 |               |
| General Weather Conditions: <u>sunny, humid</u>                   |               | Length of Water Column = <u>0.00</u> FEET                |               |
| Ambient Air Temperature: <u>90°F</u> SCDHEC Site ID: <u>12719</u> |               | 1 casing vol = <u>0.00</u> X 0.163 = <u>0.00</u> GALLONS |               |
| Facility Name: <u>Hot Spot 3005</u>                               |               | 3 casing vols = <u>0.00</u> X 3 = <u>0.00</u> GALLONS    |               |
| <b>QUALITY ASSURANCE</b>  |               | Total Volume of Water Purged: <u>0</u> GALLONS           |               |
| pH Meter  | <u>Oakton</u> | Conductivity Meter                                       | <u>Oakton</u> |
| Serial No   | <u>73168</u>  | Cond Serial No:  | <u>73168</u>  |
| pH 4:   | <u>4.01</u>   | Standard 1:  | <u>1413</u>   |
| pH 7:   | <u>7.0</u>    | Standard 2:  | <u>447</u>    |
| pH 10:  | <u>10.01</u>  | Standard 3:  |               |
| Additional Comments: <u>screen 20-30' No purge</u>                |               |  |               |

|                          |                              |  |  |  |  |  |  |  |  |  |
|--------------------------|------------------------------|--|--|--|--|--|--|--|--|--|
| Volume (gal):            |                              |  |  |  |  |  |  |  |  |  |
| Time:                    | <u>13:51</u>                 |  |  |  |  |  |  |  |  |  |
| pH (su):                 | <u>4.96</u>                  |  |  |  |  |  |  |  |  |  |
| Spec Cond (mS/cm):       | <u>250 <math>\mu</math>s</u> |  |  |  |  |  |  |  |  |  |
| Water Temp (F or C):     | <u>23.3°C</u>                |  |  |  |  |  |  |  |  |  |
| Turbidity (subjective):  | <u>2</u>                     |  |  |  |  |  |  |  |  |  |
| OVA Readings (ppm):      | <u>-</u>                     |  |  |  |  |  |  |  |  |  |
| Salinity (%):            | <u>-</u>                     |  |  |  |  |  |  |  |  |  |
| Dissolved Oxygen (mg/l): | <u>0.1</u>                   |  |  |  |  |  |  |  |  |  |

Remarks:

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|   |               |   |               |
|---|---------------|---|---------------|
| TERRY Project #: <u>2230.8</u>                                    |               | Well #: <u>MW-10</u>  |               |
| Project Name: <u>Hot Spot 3005</u>                                |               | Well Diameter: <u>2</u> INCHES                              |               |
| Date: <u>8/18/05</u>  |               | Total Well Depth: <u>58.50</u> FEET                         |               |
| Field Personnel: <u>Edward Evans</u>                              |               | Depth to Groundwater: <u>24.60</u> FEET                     |               |
| General Weather Conditions: <u>sunny, humid</u>                   |               | Length of Water Column = <u>33.9000</u> FEET                |               |
| Ambient Air Temperature: <u>90°F</u> SCDHEC Site ID: <u>12719</u> |               | 1 casing vol = <u>0.00</u> X 0.163 = <u>5.53000</u> GALLONS |               |
| Facility Name: <u>Hot Spot 3005</u>                               |               | 3 casing vols = <u>0.00</u> X 3 = <u>16.58000</u> GALLONS   |               |
| <b>QUALITY ASSURANCE</b>  |               | Total Volume of Water Purged: <u>25.00</u> GALLONS          |               |
| pH Meter  | <u>Oakton</u> | Conductivity Meter  | <u>Oakton</u> |
| Serial No   | <u>73168</u>  | Cond Serial No:   | <u>73168</u>  |
| pH 4:   | <u>4.01</u>   | Standard1:  | <u>1413</u>   |
| pH 7:   | <u>7.0</u>    | Standard2:  | <u>447</u>    |
| pH 10:  | <u>10.01</u>  | Standard3:  |               |
| Additional Comments:<br><u>screen 55-60' <u>purge</u></u>         |               |   |               |

|                          |               |                |                |                |                |  |  |  |  |
|--------------------------|---------------|----------------|----------------|----------------|----------------|--|--|--|--|
| Volume (gal):            | <u>5.0gal</u> | <u>10.0gal</u> | <u>15.0gal</u> | <u>20.0gal</u> | <u>25.0gal</u> |  |  |  |  |
| Time:                    | <u>15:17</u>  | <u>15:22</u>   | <u>15:27</u>   | <u>15:32</u>   | <u>15:39</u>   |  |  |  |  |
| pH (su):                 | <u>5.09</u>   | <u>5.15</u>    | <u>5.10</u>    | <u>5.04</u>    | <u>4.98</u>    |  |  |  |  |
| Spec Cond (mS/cm):       | <u>96.3µS</u> | <u>61.1µS</u>  | <u>51.1µS</u>  | <u>48.0µS</u>  | <u>47.9µS</u>  |  |  |  |  |
| Water Temp (F or C):     | <u>21.6°C</u> | <u>20.9°C</u>  | <u>20.7°C</u>  | <u>20.3°C</u>  | <u>20.3°C</u>  |  |  |  |  |
| Turbidity (subjective):  | <u>1</u>      | <u>1</u>       | <u>1</u>       | <u>1</u>       | <u>1</u>       |  |  |  |  |
| OVA Readings (ppm):      | <u>-</u>      | <u>-</u>       | <u>-</u>       | <u>-</u>       | <u>-</u>       |  |  |  |  |
| Salinity (%):            | <u>-</u>      | <u>-</u>       | <u>-</u>       | <u>-</u>       | <u>-</u>       |  |  |  |  |
| Dissolved Oxygen (mg/l): | <u>-</u>      | <u>-</u>       | <u>-</u>       | <u>-</u>       | <u>-</u>       |  |  |  |  |

Remarks:

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|                             |               |                               |                                 |
|-----------------------------|---------------|-------------------------------|---------------------------------|
| TERRY Project #:            | 2230.8        | Well #:                       | MW-2                            |
| Project Name:               | Hot Spot 3005 | Well Diameter:                | 2 INCHES                        |
| Date:                       | 8/18/05       | Total Well Depth:             | 36.0 FEET                       |
| Field Personnel:            | Edward Evans  | Depth to Groundwater:         | 23.69 0 FEET                    |
| General Weather Conditions: | Sunny, humid  | Length of Water Column =      | 12.31 0.00 FEET                 |
| Ambient Air Temperature:    | 90°F          | 1 casing vol =                | 0.00 X 0.163 = 2.000.00 GALLONS |
| SCDHEC Site ID:             | 12719         | 3 casing vols =               | 0.00 X 3 = 6.000.00 GALLONS     |
| Facility Name:              | Hot Spot 3005 | Total Volume of Water Purged: | 7.000 0 GALLONS                 |

**QUALITY ASSURANCE**

|           |        |                    |        |
|-----------|--------|--------------------|--------|
| pH Meter  | Oakton | Conductivity Meter | Oakton |
| Serial No | 73168  | Cond Serial No:    | 73168  |
| pH 4:     | 4.01   | Standard1:         | 1413   |
| pH 7:     | 7.0    | Standard2:         | 447    |
| pH 10:    | 10.01  | Standard3:         |        |

Additional Comments:  
 screen 26-36' Purge

|                          |         |         |         |        |  |  |  |  |
|--------------------------|---------|---------|---------|--------|--|--|--|--|
| Volume (gal):            | 2.0 gal | 4.0 gal | 6.0 gal | 7 gal  |  |  |  |  |
| Time:                    | 16:28   | 16:31   | 16:35   | 16:38  |  |  |  |  |
| pH (su):                 | 5.27    | 5.11    | 4.21    | 4.56   |  |  |  |  |
| Spec Cond (mS/cm):       | 100.8   | 95.2    | 92.2    | 91.1   |  |  |  |  |
| Water Temp (F or C):     | 21.6°C  | 21.4°C  | 21.4°C  | 21.6°C |  |  |  |  |
| Turbidity (subjective):  | 1       | 1       | 1       | 1      |  |  |  |  |
| OVA Readings (ppm):      | -       | -       | -       | -      |  |  |  |  |
| Salinity (%):            | -       | -       | -       | -      |  |  |  |  |
| Dissolved Oxygen (mg/l): | -       | -       | -       | -      |  |  |  |  |

Remarks:

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|                             |               |                               |                             |
|-----------------------------|---------------|-------------------------------|-----------------------------|
| TERRY Project #:            | 2230.8        | Well #:                       | MU-3R                       |
| Project Name:               | Hot Spot 3005 | Well Diameter:                | 2 INCHES                    |
| Date:                       | 8/18/05       | Total Well Depth:             | 36.0 FEET                   |
| Field Personnel:            | Edward Evans  | Depth to Groundwater:         | 27.150 FEET                 |
| General Weather Conditions: | sunny, humid  | Length of Water Column =      | 0.00 FEET                   |
| Ambient Air Temperature:    | 90°F          | SCDHEC Site ID:               | 12719                       |
| Facility Name:              | Hot Spot 3005 | 1 casing vol =                | 0.00 X 0.163 = 0.00 GALLONS |
| <b>QUALITY ASSURANCE</b>    |               | 3 casing vols =               | 0.00 X 3 = 0.00 GALLONS     |
|                             |               | Total Volume of Water Purged: | 0 GALLONS                   |
| pH Meter                    | Oakton        | Additional Comments:          |                             |
| Serial No                   | 73168         | screen 26-36' No purge        |                             |
| pH 4:                       | 4.01          |                               |                             |
| pH 7:                       | 7.0           |                               |                             |
| pH 10:                      | 10.01         |                               |                             |
| Conductivity Meter          | Oakton        |                               |                             |
| Cond Serial No:             | 73168         |                               |                             |
| Standard 1:                 | 1413          |                               |                             |
| Standard 2:                 | 447           |                               |                             |
| Standard 3:                 |               |                               |                             |

|                          |        |                  |  |  |  |  |  |  |  |
|--------------------------|--------|------------------|--|--|--|--|--|--|--|
| Volume (gal):            |        |                  |  |  |  |  |  |  |  |
| Time:                    | 14:07  | <del>13:28</del> |  |  |  |  |  |  |  |
| pH (su):                 | 5.11   |                  |  |  |  |  |  |  |  |
| Spec Cond (mS/cm):       | 121.7  |                  |  |  |  |  |  |  |  |
| Water Temp (F or C):     | 21.8°C |                  |  |  |  |  |  |  |  |
| Turbidity (subjective):  | 2      |                  |  |  |  |  |  |  |  |
| OVA Readings (ppm):      | -      |                  |  |  |  |  |  |  |  |
| Salinity (%):            | -      |                  |  |  |  |  |  |  |  |
| Dissolved Oxygen (mg/l): | -      |                  |  |  |  |  |  |  |  |

Remarks:

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|   |                |   |        |
|---|----------------|---|--------|
| TERRY Project #: <u>2230.8</u>  |                | Well #: <u>MW-4</u>   |        |
| Project Name: <u>Hot Spot 3005</u>  |                | Well Diameter: <u>2</u> INCHES                                |        |
| Date: <u>8/18/05</u>  |                | Total Well Depth: <u>46.0</u> FEET                            |        |
| Field Personnel: <u>Edward Evans</u>  |                | Depth to Groundwater: <u>23.30</u> FEET                       |        |
| General Weather Conditions: <u>sunny, humid</u>                                 |                | Length of Water Column = <u>22.75</u> 0.00 FEET               |        |
| Ambient Air Temperature: <u>90°F</u> SCDHEC Site ID: <u>12719</u>               |                | 1 casing vol = <u>0.00</u> X 0.163 = <u>3.71</u> 0.00 GALLONS |        |
| Facility Name: <u>Hot Spot 3005</u>   |                | 3 casing vols = <u>0.00</u> X 3 = <u>11.12</u> 0.00 GALLONS   |        |
| <b>QUALITY ASSURANCE</b>  |                | Total Volume of Water Purged: <u>4.0</u> 0 GALLONS            |        |
| pH Meter  | Oakton         | Conductivity Meter  | Oakton |
| Serial No   | 73168          | Cond Serial No:   | 73168  |
| pH 4:   | 4.01           | Standard1:  | 1413   |
| pH 7:   | 7.0            | Standard2:  | 447    |
| pH 10:  | 10.01          | Standard3:  |        |
| Additional Comments:<br><u>screen 36-46' Purge</u><br><u>well dry @ 4.0 gal</u> |                |   |        |
| Volume (gal):   | <u>2.5 gal</u> | <u>4.0 gal</u>  |        |
| Time:   | <u>16:05</u>   | <u>16:08</u>  |        |
| pH (su):  | <u>5.45</u>    | <u>5.86</u>   |        |
| Spec Cond (mS/cm):  | <u>84.5</u>    | <u>87.8</u>   |        |
| Water Temp (F or C):  | <u>21.8°C</u>  | <u>21.4°C</u>   |        |
| Turbidity (subjective):   | <u>1</u>       | <u>1</u>  |        |
| OVA Readings (ppm):   | <u>-</u>       | <u>-</u>  |        |
| Salinity (%):   | <u>-</u>       | <u>-</u>  |        |
| Dissolved Oxygen (mg/l):  | <u>-</u>       | <u>-</u>  |        |
| Remarks:  |                |   |        |

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|                             |               |                               |                             |
|-----------------------------|---------------|-------------------------------|-----------------------------|
| TERRY Project #:            | 2230.8        | Well #:                       | MW-5                        |
| Project Name:               | Hot Spot 3005 | Well Diameter:                | 2 INCHES                    |
| Date:                       | 8/18/05       | Total Well Depth:             | 32.0 FEET                   |
| Field Personnel:            | Edward Evans  | Depth to Groundwater:         | 29.030 FEET                 |
| General Weather Conditions: | sunny, humid  | Length of Water Column =      | 0.00 FEET                   |
| Ambient Air Temperature:    | 90°F          | SCDHEC Site ID:               | 12719                       |
| Facility Name:              | Hot Spot 3005 | 1 casing vol =                | 0.00 X 0.163 = 0.00 GALLONS |
| <b>QUALITY ASSURANCE</b>    |               | 3 casing vols =               | 0.00 X 3 = 0.00 GALLONS     |
| pH Meter                    | Oakton        | Conductivity Meter            | Oakton                      |
| Serial No                   | 73168         | Cond Serial No:               | 73168                       |
| pH 4:                       | 4.01          | Standard1:                    | 1413                        |
| pH 7:                       | 7.0           | Standard2:                    | 447                         |
| pH 10:                      | 10.01         | Standard3:                    |                             |
|                             |               | Total Volume of Water Purged: | 0 GALLONS                   |
|                             |               | Additional Comments:          |                             |

Screen 22-32'  
No purge

|                          |        |  |  |  |  |  |  |  |  |
|--------------------------|--------|--|--|--|--|--|--|--|--|
| Volume (gal):            |        |  |  |  |  |  |  |  |  |
| Time:                    | 14:14  |  |  |  |  |  |  |  |  |
| pH (su):                 | 4.90   |  |  |  |  |  |  |  |  |
| Spec Cond (mS/cm):       | 47.3µs |  |  |  |  |  |  |  |  |
| Water Temp (F or C):     | 21.8°C |  |  |  |  |  |  |  |  |
| Turbidity (subjective):  | 3      |  |  |  |  |  |  |  |  |
| OVA Readings (ppm):      | -      |  |  |  |  |  |  |  |  |
| Salinity (%):            | -      |  |  |  |  |  |  |  |  |
| Dissolved Oxygen (mg/l): | -      |  |  |  |  |  |  |  |  |

Remarks:



P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|   |               |   |               |
|---|---------------|---|---------------|
| TERRY Project #: <u>2230.8</u>                                    |               | Well #: <u>MW-6</u>   |               |
| Project Name: <u>Hot Spot 3005</u>                                |               | Well Diameter: <u>2</u> INCHES                                |               |
| Date: <u>8/18/05</u>  |               | Total Well Depth: <u>36.0</u> FEET                            |               |
| Field Personnel: <u>Edward Evans</u>                              |               | Depth to Groundwater: <u>24.20</u> FEET                       |               |
| General Weather Conditions: <u>sunny, humid</u>                   |               | Length of Water Column = <u>11.78</u> 0.00 FEET               |               |
| Ambient Air Temperature: <u>90°F</u> SCDHEC Site ID: <u>12719</u> |               | 1 casing vol = <u>0.00</u> X 0.163 = <u>1.92</u> 0.00 GALLONS |               |
| Facility Name: <u>Hot Spot 3005</u>                               |               | 3 casing vols = <u>0.00</u> X 3 = <u>5.76</u> 0.00 GALLONS    |               |
| <b>QUALITY ASSURANCE</b>  |               | Total Volume of Water Purged: <u>6.00</u> GALLONS             |               |
| pH Meter  | <u>Oakton</u> | Conductivity Meter  | <u>Oakton</u> |
| Serial No   | <u>73168</u>  | Cond Serial No:   | <u>73168</u>  |
| pH 4:   | <u>4.01</u>   | Standard1:  | <u>1413</u>   |
| pH 7:   | <u>7.0</u>    | Standard2:  | <u>447</u>    |
| pH 10:  | <u>10.01</u>  | Standard3:  |               |
| Additional Comments: <u>SCREEN 26-36' Purge</u>                   |               |   |               |

| Volume (gal):            | <u>2.0 gal</u> | <u>4.0 gal</u> | <u>6.0 gal</u> |  |  |  |  |  |
|--------------------------|----------------|----------------|----------------|--|--|--|--|--|
| Time:                    | <u>17:44</u>   | <u>17:45</u>   | <u>17:52</u>   |  |  |  |  |  |
| pH (su):                 | <u>4.31</u>    | <u>4.28</u>    | <u>4.26</u>    |  |  |  |  |  |
| Spec Cond (mS/cm):       | <u>68.7</u>    | <u>62.5</u>    | <u>63.9</u>    |  |  |  |  |  |
| Water Temp (F or C):     | <u>21.9°C</u>  | <u>21.2°C</u>  | <u>21.2°C</u>  |  |  |  |  |  |
| Turbidity (subjective):  | <u>1</u>       | <u>1</u>       | <u>1</u>       |  |  |  |  |  |
| OVA Readings (ppm):      | <u>-</u>       | <u>-</u>       | <u>-</u>       |  |  |  |  |  |
| Salinity (%):            | <u>-</u>       | <u>-</u>       | <u>-</u>       |  |  |  |  |  |
| Dissolved Oxygen (mg/l): | <u>-</u>       | <u>-</u>       | <u>-</u>       |  |  |  |  |  |

Remarks:

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|                             |               |                               |                                  |
|-----------------------------|---------------|-------------------------------|----------------------------------|
| TERRY Project #:            | 2230.8        | Well #:                       | MW-7                             |
| Project Name:               | Hot Spot 3005 | Well Diameter:                | 2 INCHES                         |
| Date:                       | 8/18/05       | Total Well Depth:             | 36.0 FEET                        |
| Field Personnel:            | Edward Evans  | Depth to Groundwater:         | 22.74 0 FEET                     |
| General Weather Conditions: | sunny, humid  | Length of Water Column =      | 13.26 0.00 FEET                  |
| Ambient Air Temperature:    | 90°F          | SCDHEC Site ID:               | 12719                            |
| Facility Name:              | Hot Spot 3005 | 1 casing vol =                | 0.00 X 0.163 = 2.16 0.00 GALLONS |
| <b>QUALITY ASSURANCE</b>    |               | 3 casing vols =               | 0.00 X 3 = 6.48 0.00 GALLONS     |
|                             |               | Total Volume of Water Purged: | 7.5 0 GALLONS                    |
|                             |               | Additional Comments:          | screen 26-36' <u>Purge</u>       |

|           |        |                    |        |
|-----------|--------|--------------------|--------|
| pH Meter  | Oakton | Conductivity Meter | Oakton |
| Serial No | 73168  | Cond Serial No:    | 73168  |
| pH 4:     | 4.01   | Standard 1:        | 1413   |
| pH 7:     | 7.0    | Standard 2:        | 447    |
| pH 10:    | 10.01  | Standard 3:        |        |

|                          |         |         |         |         |  |  |  |  |
|--------------------------|---------|---------|---------|---------|--|--|--|--|
| Volume (gal):            | 2.0 gal | 4.0 gal | 6.0 gal | 7.5 gal |  |  |  |  |
| Time:                    | 17:13   | 17:15   | 17:17   | 17:21   |  |  |  |  |
| pH (su):                 | 4.37    | 4.32    | 4.31    | 4.37    |  |  |  |  |
| Spec Cond (mS/cm):       | 32.6    | 45.1    | 32.0    | 33.0    |  |  |  |  |
| Water Temp (F or C):     | 21.2°C  | 20.9°C  | 20.7°C  | 21.2    |  |  |  |  |
| Turbidity (subjective):  | 2       | 1       | 1       | 1       |  |  |  |  |
| OVA Readings (ppm):      | -       | -       | -       | -       |  |  |  |  |
| Salinity (%):            | -       | -       | -       | -       |  |  |  |  |
| Dissolved Oxygen (mg/l): | -       | -       | -       | -       |  |  |  |  |

Remarks:

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|                             |               |                               |                                  |
|-----------------------------|---------------|-------------------------------|----------------------------------|
| TERRY Project #:            | 2230.8        | Well #:                       | MW-8                             |
| Project Name:               | Hot Spot 3005 | Well Diameter:                | 2 INCHES                         |
| Date:                       | 8/18/05       | Total Well Depth:             | 33.250 FEET                      |
| Field Personnel:            | Edward Evans  | Depth to Groundwater:         | 18.050 FEET                      |
| General Weather Conditions: | sunny, humid  | Length of Water Column =      | 15.2 0.00 FEET                   |
| Ambient Air Temperature:    | 90°F          | SCDHEC Site ID:               | 12719                            |
| Facility Name:              | Hot Spot 3005 | 1 casing vol =                | 0.00 X 0.163 = 2.48 0.00 GALLONS |
|                             |               | 3 casing vols =               | 0.00 X 3 = 7.43 0.00 GALLONS     |
|                             |               | Total Volume of Water Purged: | 7.5 0 GALLONS                    |

**QUALITY ASSURANCE**

|           |        |                    |        |
|-----------|--------|--------------------|--------|
| pH Meter  | Oakton | Conductivity Meter | Oakton |
| Serial No | 73168  | Cond Serial No:    | 73168  |
| pH 4:     | 4.01   | Standard1:         | 1413   |
| pH 7:     | 7.0    | Standard2:         | 447    |
| pH 10:    | 10.01  | Standard3:         |        |

Additional Comments:  
*Found screen 23-33'?*  
*purge*

|                          |         |         |         |  |  |  |  |  |
|--------------------------|---------|---------|---------|--|--|--|--|--|
| Volume (gal):            | 2.5 gal | 5.0 gal | 7.5 gal |  |  |  |  |  |
| Time:                    | 18:03   | 18:02   | 18:16   |  |  |  |  |  |
| pH (su):                 | 4.36    | 4.28    | 4.26    |  |  |  |  |  |
| Spec Cond (mS/cm):       | 24.2    | 18.95   | 19.14   |  |  |  |  |  |
| Water Temp (F or C):     | 20.2°C  | 20.3°C  | 21.2°C  |  |  |  |  |  |
| Turbidity (subjective):  | 4       | 4       | 4       |  |  |  |  |  |
| OVA Readings (ppm):      | -       | -       | -       |  |  |  |  |  |
| Salinity (%):            | -       | -       | -       |  |  |  |  |  |
| Dissolved Oxygen (mg/l): | -       | -       | -       |  |  |  |  |  |

Remarks:

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|                             |               |                               |                                 |
|-----------------------------|---------------|-------------------------------|---------------------------------|
| TERRY Project #:            | 2230.8        | Well #:                       | MW-9                            |
| Project Name:               | Hot Spot 3005 | Well Diameter:                | 2 INCHES                        |
| Date:                       | 8/18/05       | Total Well Depth:             | 35.150 FEET                     |
| Field Personnel:            | Edward Evans  | Depth to Groundwater:         | 22.950 FEET                     |
| General Weather Conditions: | sunny, humid  | Length of Water Column =      | 12.2 0.00 FEET                  |
| Ambient Air Temperature:    | 90°F          | 1 casing vol =                | 0.00 X 0.163 = 1.990.00 GALLONS |
| SCDHEC Site ID:             | 12719         | 3 casing vols =               | 0.00 X 3 = 5.97 0.00 GALLONS    |
| Facility Name:              | Hot Spot 3005 | Total Volume of Water Purged: | 6.090 0 GALLONS                 |

*Purge*

**QUALITY ASSURANCE**

|           |        |                    |        |
|-----------|--------|--------------------|--------|
| pH Meter  | Oakton | Conductivity Meter | Oakton |
| Serial No | 73168  | Cond Serial No:    | 73168  |
| pH 4:     | 4.01   | Standard1:         | 1413   |
| pH 7:     | 7.0    | Standard2:         | 447    |
| pH 10:    | 10.01  | Standard3:         |        |

Additional Comments:  
 screen unknown possible obstruction  
 well MW-9 is ~~located~~ MU-4 in parking lot  
 painted  
 MW painted "WWE" in  
 dry at 12:01' [see site map] (MWQR?)

|                          |         |         |         |  |  |  |  |  |  |
|--------------------------|---------|---------|---------|--|--|--|--|--|--|
| Volume (gal):            | 2.09gal | 4.09gal | 6.09gal |  |  |  |  |  |  |
| Time:                    | 16:52   | 16:54   | 17:00   |  |  |  |  |  |  |
| pH (su):                 | 4.54    | 4.46    | 4.51    |  |  |  |  |  |  |
| Spec Cond (mS/cm):       | 45.215  | 37.615  | 35.1    |  |  |  |  |  |  |
| Water Temp (F or C):     | 20.9°C  | 20.5°C  | 20.4°C  |  |  |  |  |  |  |
| Turbidity (subjective):  | 2       | 2       | 2       |  |  |  |  |  |  |
| OVA Readings (ppm):      | -       | -       | -       |  |  |  |  |  |  |
| Salinity (%):            | -       | -       | -       |  |  |  |  |  |  |
| Dissolved Oxygen (mg/l): | -       | -       | -       |  |  |  |  |  |  |

Remarks:

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|  |  |                              |   |  |  |
|--|--|------------------------------|---|--|--|
| TERRY Project #: <u>2230.8</u>                         |  |                              | Well #: <u>MW-10R</u>   |  |  |
| Project Name: <u>Hot Spot 3005</u>                     |  |                              | Well Diameter: <u>2</u> INCHES                                |  |  |
| Date: <u>8/18/05</u>                                   |  |                              | Total Well Depth: <u>32.0</u> FEET                            |  |  |
| Field Personnel: <u>Edward Evans</u>                   |  |                              | Depth to Groundwater: <u>19.670</u> FEET                      |  |  |
| General Weather Conditions: <u>sunny, humid</u>        |  |                              | Length of Water Column = <u>12.33 0.00</u> FEET               |  |  |
| Ambient Air Temperature: <u>90°F</u>                   |  | SCDHEC Site ID: <u>12719</u> |   |  |  |
| Facility Name: <u>Hot Spot 3005</u>                    |  |                              | 1 casing vol = <u>0.00</u> X 0.163 = <u>2.01 0.00</u> GALLONS |  |  |
| <b>QUALITY ASSURANCE</b>                               |  |                              | 3 casing vols = <u>0.00</u> X 3 = <u>6.03 0.00</u> GALLONS    |  |  |
|  |  |                              | Total Volume of Water Purged: <u>6.00</u> GALLONS             |  |  |
| pH Meter: <u>Oakton</u>                                |  |                              | Conductivity Meter: <u>Oakton</u>                             |  |  |
| Serial No: <u>73168</u>                                |  | Cond Serial No: <u>73168</u> |   |  |  |
| pH 4: <u>4.01</u>                                      |  | Standard 1: <u>1413</u>      |   |  |  |
| pH 7: <u>7.0</u>                                       |  | Standard 2: <u>447</u>       |   |  |  |
| pH 10: <u>10.01</u>                                    |  | Standard 3: <u></u>          |   |  |  |
| Additional Comments: <u>screen 22-32' <u>purge</u></u> |  |                              |   |  |  |

|                          |                |                |                |  |  |  |  |  |
|--------------------------|----------------|----------------|----------------|--|--|--|--|--|
| Volume (gal):            | <u>2.0 gal</u> | <u>4.0 gal</u> | <u>6.0 gal</u> |  |  |  |  |  |
| Time:                    | <u>18:22</u>   | <u>18:27</u>   | <u>18:30</u>   |  |  |  |  |  |
| pH (su):                 | <u>3.96</u>    | <u>3.92</u>    | <u>3.92</u>    |  |  |  |  |  |
| Spec Cond (mS/cm):       | <u>52.6</u>    | <u>52.8</u>    | <u>54.2</u>    |  |  |  |  |  |
| Water Temp (F or C):     | <u>20.5°C</u>  | <u>20.1°C</u>  | <u>20.6°C</u>  |  |  |  |  |  |
| Turbidity (subjective):  | <u>4</u>       | <u>4</u>       | <u>4</u>       |  |  |  |  |  |
| OVA Readings (ppm):      | <u>-</u>       | <u>-</u>       | <u>-</u>       |  |  |  |  |  |
| Salinity (%):            | <u>-</u>       | <u>-</u>       | <u>-</u>       |  |  |  |  |  |
| Dissolved Oxygen (mg/l): | <u>-</u>       | <u>-</u>       | <u>-</u>       |  |  |  |  |  |

Remarks:

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|   |               |  |               |
|---|---------------|--|---------------|
| TERRY Project #: <u>2230.8</u>  |               | Well #: <u>MW-11R</u>  |               |
| Project Name: <u>Hot Spot 3005</u>  |               | Well Diameter: <u>2</u> INCHES                               |               |
| Date: <u>8/18/05</u>  |               | Total Well Depth: <u>32.0</u> FEET                           |               |
| Field Personnel: <u>Edward Evans</u>  |               | Depth to Groundwater: <u>20.680</u> FEET                     |               |
| General Weather Conditions: <u>sunny, humid</u>   |               | Length of Water Column = <u>11.32 0.00</u> FEET              |               |
| Ambient Air Temperature: <u>90°F</u> SCDHEC Site ID: <u>12719</u>                         |               | 1 casing vol = <u>0.00</u> X 0.163 = <u>1.250.00</u> GALLONS |               |
| Facility Name: <u>Hot Spot 3005</u>   |               | 3 casing vols = <u>0.00</u> X 3 = <u>5.54 0.00</u> GALLONS   |               |
| <b>QUALITY ASSURANCE</b>  |               | Total Volume of Water Purged: <u>5.0 0</u> GALLONS           |               |
| pH Meter  | <u>Oakton</u> | Conductivity Meter   | <u>Oakton</u> |
| Serial No   | <u>73168</u>  | Cond Serial No:  | <u>73168</u>  |
| pH 4:   | <u>4.01</u>   | Standard1:   | <u>1413</u>   |
| pH 7:   | <u>7.0</u>    | Standard2:   | <u>447</u>    |
| pH 10:  | <u>10.01</u>  | Standard3:   |               |
| Additional Comments:<br><u>screen 22-32'</u><br><u>purge</u><br><u>well dry @ 5.0 gal</u> |               |  |               |

|                          |               |               |               |            |  |  |  |  |  |
|--------------------------|---------------|---------------|---------------|------------|--|--|--|--|--|
| Volume (gal):            | <u>2.0</u>    | <u>5.1</u>    | <u>4.0</u>    | <u>5.0</u> |  |  |  |  |  |
| Time:                    | <u>18:45</u>  | <u>18:48</u>  | <u>18:50</u>  |            |  |  |  |  |  |
| pH (su):                 | <u>3.84</u>   | <u>3.86</u>   | <u>3.84</u>   |            |  |  |  |  |  |
| Spec Cond (mS/cm):       | <u>240.6</u>  | <u>29.2</u>   | <u>36.5</u>   |            |  |  |  |  |  |
| Water Temp (F or C):     | <u>20.1°C</u> | <u>20.1°C</u> | <u>20.0°C</u> |            |  |  |  |  |  |
| Turbidity (subjective):  |               |               |               |            |  |  |  |  |  |
| OVA Readings (ppm):      |               |               |               |            |  |  |  |  |  |
| Salinity (%):            |               |               |               |            |  |  |  |  |  |
| Dissolved Oxygen (mg/l): |               |               |               |            |  |  |  |  |  |

Remarks:

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|  |  |  |   |  |  |
|--|--|--|---|--|--|
| TERRY Project #: <u>2230.8</u>   |  |  | Well #: <u>MW-12</u>  |  |  |
| Project Name: <u>Hot Spot 3005</u>   |  |  | Well Diameter: <u>2</u> INCHES                                |  |  |
| Date: <u>8/18/05</u>   |  |  | Total Well Depth: <u>30.0</u> FEET                            |  |  |
| Field Personnel: <u>Edward Evans</u>   |  |  | Depth to Groundwater: <u>19.57 0</u> FEET                     |  |  |
| General Weather Conditions: <u>sunny, humid</u>                                    |  |  | Length of Water Column = <u>10.43 0.00</u> FEET               |  |  |
| Ambient Air Temperature: <u>90°F</u> SCDHEC Site ID: <u>12719</u>                  |  |  | 1 casing vol = <u>0.00</u> X 0.163 = <u>1.70 0.00</u> GALLONS |  |  |
| Facility Name: <u>Hot Spot 3005</u>  |  |  | 3 casing vols = <u>0.00</u> X 3 = <u>5.10 0.00</u> GALLONS    |  |  |
| <b>QUALITY ASSURANCE</b>   |  |  | Total Volume of Water Purged: <u>7.5 0</u> GALLONS            |  |  |
| pH Meter: <u>Oakton</u>  |  |  | Conductivity Meter: <u>Oakton</u>                             |  |  |
| Serial No: <u>73168</u>  |  |  | Cond Serial No: <u>73168</u>                                  |  |  |
| pH 4: <u>4.01</u>  |  |  | Standard 1: <u>1413</u>                                       |  |  |
| pH 7: <u>7.0</u>   |  |  | Standard 2: <u>447</u>  |  |  |
| pH 10: <u>10.01</u>  |  |  | Standard 3: <u></u>   |  |  |
| Additional Comments: <u>screen 20-30' <span style="float: right;">purge</span></u> |  |  |   |  |  |

|                          |               |               |               |  |  |  |  |  |
|--------------------------|---------------|---------------|---------------|--|--|--|--|--|
| Volume (gal):            | <u>2.0</u>    | <u>4.0</u>    | <u>7.5</u>    |  |  |  |  |  |
| Time:                    | <u>19:00</u>  | <u>19:03</u>  | <u>19:08</u>  |  |  |  |  |  |
| pH (su):                 | <u>4.07</u>   | <u>4.06</u>   | <u>4.16</u>   |  |  |  |  |  |
| Spec Cond (mS/cm):       | <u>52.4</u>   | <u>54.7</u>   | <u>53.6</u>   |  |  |  |  |  |
| Water Temp (F or C):     | <u>19.4°C</u> | <u>19.6°C</u> | <u>19.2°C</u> |  |  |  |  |  |
| Turbidity (subjective):  | <u>4</u>      | <u>4</u>      | <u>4</u>      |  |  |  |  |  |
| OVA Readings (ppm):      | <u>-</u>      | <u>-</u>      | <u>-</u>      |  |  |  |  |  |
| Salinity (%):            | <u>-</u>      | <u>-</u>      | <u>-</u>      |  |  |  |  |  |
| Dissolved Oxygen (mg/l): | <u>-</u>      | <u>-</u>      | <u>-</u>      |  |  |  |  |  |

Remarks:

P.O. Box 25 Summerville, SC 29484 1-800-325-0605

|   |               |  |               |
|---|---------------|--|---------------|
| TERRY Project #: <u>2230.8</u>                                    |               | Well #: <u>MW-13</u>                                     |               |
| Project Name: <u>Hot Spot 3005</u>                                |               | Well Diameter: <u>2</u> INCHES                           |               |
| Date: <u>8/18/05</u>  |               | Total Well Depth: <u>27.0</u> FEET                       |               |
| Field Personnel: <u>Edward Evans</u>                              |               | Depth to Groundwater: <u>20.620</u> FEET                 |               |
| General Weather Conditions: <u>sunny, humid</u>                   |               | Length of Water Column = <u>0.00</u> FEET                |               |
| Ambient Air Temperature: <u>90°F</u> SCDHEC Site ID: <u>12719</u> |               | 1 casing vol = <u>0.00</u> X 0.163 = <u>0.00</u> GALLONS |               |
| Facility Name: <u>Hot Spot 3005</u>                               |               | 3 casing vols = <u>0.00</u> X 3 = <u>0.00</u> GALLONS    |               |
| <b>QUALITY ASSURANCE</b>  |               | Total Volume of Water Purged: <u>0</u> GALLONS           |               |
| pH Meter  | <u>Oakton</u> | Conductivity Meter                                       | <u>Oakton</u> |
| Serial No   | <u>73168</u>  | Cond Serial No:  | <u>73168</u>  |
| pH 4:   | <u>4.01</u>   | Standard 1:  | <u>1413</u>   |
| pH 7:   | <u>7.0</u>    | Standard 2:  | <u>447</u>    |
| pH 10:  | <u>10.01</u>  | Standard 3:  |               |
| Additional Comments:<br><u>screen 17-27'      <u>no purge</u></u> |               |  |               |

|                          |               |  |  |  |  |  |  |  |  |
|--------------------------|---------------|--|--|--|--|--|--|--|--|
| Volume (gal):            |               |  |  |  |  |  |  |  |  |
| Time:                    | <u>14:32</u>  |  |  |  |  |  |  |  |  |
| pH (su):                 | <u>4.36</u>   |  |  |  |  |  |  |  |  |
| Spec Cond (mS/cm):       | <u>63.1</u>   |  |  |  |  |  |  |  |  |
| Water Temp (F or C):     | <u>21.1°C</u> |  |  |  |  |  |  |  |  |
| Turbidity (subjective):  | <u>2</u>      |  |  |  |  |  |  |  |  |
| OVA Readings (ppm):      | <u>-</u>      |  |  |  |  |  |  |  |  |
| Salinity (%):            | <u>-</u>      |  |  |  |  |  |  |  |  |
| Dissolved Oxygen (mg/l): | <u>-</u>      |  |  |  |  |  |  |  |  |

Remarks:



P.O. Box 25 Summerville, SC 29484 1-800-325-0605

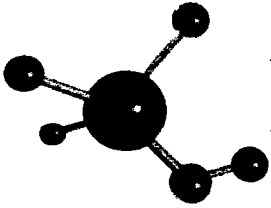
|   |               |  |               |
|---|---------------|--|---------------|
| TERRY Project #: <u>2230.8</u>                                    |               | Well #: <u>MW-14</u>                                     |               |
| Project Name: <u>Hot Spot 3005</u>                                |               | Well Diameter: <u>2</u> INCHES                           |               |
| Date: <u>8/18/05</u>  |               | Total Well Depth: <u>31.0</u> FEET                       |               |
| Field Personnel: <u>Edward Evans</u>                              |               | Depth to Groundwater: <u>24.840</u> FEET                 |               |
| General Weather Conditions: <u>SUNNY, humid</u>                   |               | Length of Water Column = <u>0.00</u> FEET                |               |
| Ambient Air Temperature: <u>90°F</u> SCDHEC Site ID: <u>12719</u> |               | 1 casing vol = <u>0.00</u> X 0.163 = <u>0.00</u> GALLONS |               |
| Facility Name: <u>Hot Spot 3005</u>                               |               | 3 casing vols = <u>0.00</u> X 3 = <u>0.00</u> GALLONS    |               |
| <b>QUALITY ASSURANCE</b>  |               | Total Volume of Water Purged: <u>0</u> GALLONS           |               |
| pH Meter  | <u>Oakton</u> | Conductivity Meter                                       | <u>Oakton</u> |
| Serial No   | <u>73168</u>  | Cond Serial No:  | <u>73168</u>  |
| pH 4:   | <u>4.01</u>   | Standard 1:  | <u>1413</u>   |
| pH 7:   | <u>7.0</u>    | Standard 2:  | <u>447</u>    |
| pH 10:  | <u>10.01</u>  | Standard 3:  |               |
| Additional Comments:<br><u>screen 21-31' No purge</u>             |               |  |               |
| Volume (gal):   |               |  |               |
| Time:   | <u>14:44</u>  |  |               |
| pH (su):  | <u>4.34</u>   |  |               |
| Spec Cond (mS/cm):  | <u>76.5us</u> |  |               |
| Water Temp (F or C):  | <u>21.9°C</u> |  |               |
| Turbidity (subjective):   | <u>4</u>      |  |               |
| OVA Readings (ppm):   | <u>-</u>      |  |               |
| Salinity (%):   | <u>-</u>      |  |               |
| Dissolved Oxygen (mg/l):  | <u>-</u>      |  |               |

Remarks:

TERRY Environmental Services, Inc. P.O. Box 25 Summerville, SC 29484 1-800-325-0605

## **APPENDIX 3**

### **Laboratory Analytical Report**



ACCESS  
ANALYTICAL, INC.

ANALYTICAL REPORT

Job Number: 400-4744-1

Job Description: Hot Spot 3005

For:

Terry Environmental Services  
PO BOX 25  
Summerville, SC 29484

Attention: Jason Terry

---

Stephanie Akers  
Project Manager I  
08/31/2005

Second Tier Data Review Performed By:

---

Ashley B. Amick  
Project Manager  
aamick@accessanalyticalinc.com

**PLEASE NOTE:**

**\*\*Unless otherwise noted, all samples on this report analyzed at Severn Trent Labs (STL) Pensacola facility, 3355 Mclemore Dr., Pensacola, FL 32514.**

**STL-Pensacola is SCDHEC certified laboratory # 96026. NELAP certified laboratory E81010 .**

**\*\*Local support services for this project are provided by Access Analytical, Inc. Access Analytical is an authorized representative of Severn Trent Labs (STL) serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical, Inc. representative at 803 781.4243 or toll free at 888.315 4243.**

**\*\*The test results in this report meet all NELAP requirements for accredited parameters. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced except in full without written approval from the laboratory.**

Jason Terry  
Terry Environmental Services  
PO BOX 25  
Summerville, SC 29484

Job Number: 400-4744-1  
Lab Sample Id: 400-4744-1  
Date Sampled: 08/18/2005 1351  
Date Received: 08/20/2005 0955

Client Sample ID: MW-1

|                         | Result/Qualifier | Unit | RL  | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|-----|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |     |        |                 |                 |          |
| Benzene                 | 85               | ug/L | 1.0 | 8260B  | 08/25/2005 0834 | 08/25/2005 0834 | 1.0      |
| Ethylbenzene            | 42               | ug/L | 5.0 | 8260B  | 08/25/2005 0834 | 08/25/2005 0834 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 0834 | 08/25/2005 0834 | 1.0      |
| Toluene                 | 110              | ug/L | 5.0 | 8260B  | 08/25/2005 0834 | 08/25/2005 0834 | 1.0      |
| Xylenes, Total          | 170              | ug/L | 10  | 8260B  | 08/25/2005 0834 | 08/25/2005 0834 | 1.0      |
| Naphthalene             | 41               | ug/L | 5.0 | 8260B  | 08/25/2005 0834 | 08/25/2005 0834 | 1.0      |

Jason Terry  
Terry Environmental Services  
PO BOX 25  
Summerville, SC 29484

Job Number: 400-4744-1  
Lab Sample Id: 400-4744-2  
Date Sampled: 08/18/2005 1539  
Date Received: 08/20/2005 0955

Client Sample ID: MW-1D

|                         | Result/Qualifier | Unit | RL  | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|-----|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |     |        |                 |                 |          |
| Benzene                 | ND               | ug/L | 1.0 | 8260B  | 08/25/2005 0908 | 08/25/2005 0908 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 0908 | 08/25/2005 0908 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 0908 | 08/25/2005 0908 | 1.0      |
| Toluene                 | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 0908 | 08/25/2005 0908 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 10  | 8260B  | 08/25/2005 0908 | 08/25/2005 0908 | 1.0      |
| Naphthalene             | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 0908 | 08/25/2005 0908 | 1.0      |

Jason Terry  
Terry Environmental Services  
PO BOX 25  
Summerville, SC 29484

Job Number: 400-4744-1  
Lab Sample Id: 400-4744-3  
Date Sampled: 08/18/2005 1638  
Date Received: 08/20/2005 0955

Client Sample ID: MW-2

|                         | Result/Qualifier | Unit | RL  | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|-----|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |     |        |                 |                 |          |
| Benzene                 | 90               | ug/L | 1.0 | 8260B  | 08/25/2005 0939 | 08/25/2005 0939 | 1.0      |
| Ethylbenzene            | 78               | ug/L | 5.0 | 8260B  | 08/25/2005 0939 | 08/25/2005 0939 | 1.0      |
| Methyl tert-butyl ether | 8.9              | ug/L | 5.0 | 8260B  | 08/25/2005 0939 | 08/25/2005 0939 | 1.0      |
| Toluene                 | 100              | ug/L | 5.0 | 8260B  | 08/25/2005 0939 | 08/25/2005 0939 | 1.0      |
| Xylenes, Total          | 350              | ug/L | 10  | 8260B  | 08/25/2005 0939 | 08/25/2005 0939 | 1.0      |
| Naphthalene             | 94               | ug/L | 5.0 | 8260B  | 08/25/2005 0939 | 08/25/2005 0939 | 1.0      |

Jason Terry  
Terry Environmental Services  
PO BOX 25  
Summerville, SC 29484

Job Number: 400-4744-1  
Lab Sample Id: 400-4744-4  
Date Sampled: 08/18/2005 1407  
Date Received: 08/20/2005 0955

Client Sample ID: MW-3R

|                         | Result/Qualifier | Unit | RL  | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|-----|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |     |        |                 |                 |          |
| Benzene                 | 270              | ug/L | 5.0 | 8260B  | 08/25/2005 1044 | 08/25/2005 1044 | 5.0      |
| Ethylbenzene            | 170              | ug/L | 25  | 8260B  | 08/25/2005 1044 | 08/25/2005 1044 | 5.0      |
| Methyl tert-butyl ether | 330              | ug/L | 25  | 8260B  | 08/25/2005 1044 | 08/25/2005 1044 | 5.0      |
| Toluene                 | 41               | ug/L | 25  | 8260B  | 08/25/2005 1044 | 08/25/2005 1044 | 5.0      |
| Xylenes, Total          | 880              | ug/L | 50  | 8260B  | 08/25/2005 1044 | 08/25/2005 1044 | 5.0      |
| Naphthalene             | 430              | ug/L | 25  | 8260B  | 08/25/2005 1044 | 08/25/2005 1044 | 5.0      |

Jason Terry  
Terry Environmental Services  
PO BOX 25  
Summerville, SC 29484

Job Number: 400-4744-1  
Lab Sample id: 400-4744-5  
Date Sampled: 08/18/2005 1608  
Date Received: 08/20/2005 0955

Client Sample ID: MW-4

|                         | Result/Qualifier | Unit | RL  | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|-----|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |     |        |                 |                 |          |
| Benzene                 | ND               | ug/L | 1.0 | 8260B  | 08/25/2005 1121 | 08/25/2005 1121 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1121 | 08/25/2005 1121 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1121 | 08/25/2005 1121 | 1.0      |
| Toluene                 | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1121 | 08/25/2005 1121 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 10  | 8260B  | 08/25/2005 1121 | 08/25/2005 1121 | 1.0      |
| Naphthalene             | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1121 | 08/25/2005 1121 | 1.0      |



Jason Terry  
Terry Environmental Services  
PO BOX 25  
Summerville, SC 29484

Job Number: 400-4744-1  
Lab Sample Id: 400-4744-6  
Date Sampled: 08/18/2005 1414  
Date Received: 08/20/2005 0955

Client Sample ID: MW-5

|                         | Result/Qualifier | Unit | RL  | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|-----|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |     |        |                 |                 |          |
| Benzene                 | ND               | ug/L | 1.0 | 8260B  | 08/25/2005 1157 | 08/25/2005 1157 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1157 | 08/25/2005 1157 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1157 | 08/25/2005 1157 | 1.0      |
| Toluene                 | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1157 | 08/25/2005 1157 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 10  | 8260B  | 08/25/2005 1157 | 08/25/2005 1157 | 1.0      |
| Naphthalene             | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1157 | 08/25/2005 1157 | 1.0      |

Jason Terry  
Terry Environmental Services  
PO BOX 25  
Summerville, SC 29484

Job Number: 400-4744-1  
Lab Sample Id: 400-4744-7  
Date Sampled: 08/18/2005 1752  
Date Received: 08/20/2005 0955

Client Sample ID: MW-6

|                         | Result/Qualifier | Unit | RL  | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|-----|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |     |        |                 |                 |          |
| Benzene                 | 7.8              | ug/L | 1.0 | 8260B  | 08/25/2005 1233 | 08/25/2005 1233 | 1.0      |
| Ethylbenzene            | 5.5              | ug/L | 5.0 | 8260B  | 08/25/2005 1233 | 08/25/2005 1233 | 1.0      |
| Methyl tert-butyl ether | 6.8              | ug/L | 5.0 | 8260B  | 08/25/2005 1233 | 08/25/2005 1233 | 1.0      |
| Toluene                 | 6.3              | ug/L | 5.0 | 8260B  | 08/25/2005 1233 | 08/25/2005 1233 | 1.0      |
| Xylenes, Total          | 52               | ug/L | 10  | 8260B  | 08/25/2005 1233 | 08/25/2005 1233 | 1.0      |
| Naphthalene             | 22               | ug/L | 5.0 | 8260B  | 08/25/2005 1233 | 08/25/2005 1233 | 1.0      |

Jason Terry  
Terry Environmental Services  
PO BOX 25  
Summerville, SC 29484

Job Number: 400-4744-1  
Lab Sample Id: 400-4744-8  
Date Sampled: 08/18/2005 1721  
Date Received: 08/20/2005 0955

Client Sample ID: MW-7

|                         | Result/Qualifier | Unit | RL  | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|-----|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |     |        |                 |                 |          |
| Benzene                 | ND               | ug/L | 1.0 | 8260B  | 08/25/2005 1307 | 08/25/2005 1307 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1307 | 08/25/2005 1307 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1307 | 08/25/2005 1307 | 1.0      |
| Toluene                 | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1307 | 08/25/2005 1307 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 10  | 8260B  | 08/25/2005 1307 | 08/25/2005 1307 | 1.0      |
| Naphthalene             | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1307 | 08/25/2005 1307 | 1.0      |

Jason Terry  
Terry Environmental Services  
PO BOX 25  
Summerville, SC 29484

Job Number: 400-4744-1  
Lab Sample Id: 400-4744-9  
Date Sampled: 08/18/2005 1816  
Date Received: 08/20/2005 0955

Client Sample ID: MW-8

|                         | Result/Qualifier | Unit | RL  | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|-----|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |     |        |                 |                 |          |
| Benzene                 | ND               | ug/L | 1.0 | 8260B  | 08/25/2005 1339 | 08/25/2005 1339 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1339 | 08/25/2005 1339 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1339 | 08/25/2005 1339 | 1.0      |
| Toluene                 | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1339 | 08/25/2005 1339 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 10  | 8260B  | 08/25/2005 1339 | 08/25/2005 1339 | 1.0      |
| Naphthalene             | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1339 | 08/25/2005 1339 | 1.0      |

Jason Terry  
Terry Environmental Services  
PO BOX 25  
Summerville, SC 29484

Job Number: 400-4744-1  
Lab Sample Id: 400-4744-10  
Date Sampled: 08/18/2005 1700  
Date Received: 08/20/2005 0955

Client Sample ID: MW-9

**GC/MS VOA**

|                         | Result/Qualifier | Unit | RL  | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|-----|--------|-----------------|-----------------|----------|
| Benzene                 | ND               | ug/L | 1.0 | 8260B  | 08/25/2005 1410 | 08/25/2005 1410 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1410 | 08/25/2005 1410 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1410 | 08/25/2005 1410 | 1.0      |
| Toluene                 | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1410 | 08/25/2005 1410 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 10  | 8260B  | 08/25/2005 1410 | 08/25/2005 1410 | 1.0      |
| Naphthalene             | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1410 | 08/25/2005 1410 | 1.0      |

Jason Terry  
Terry Environmental Services  
PO BOX 25  
Summerville, SC 29484

Job Number: 400-4744-1  
Lab Sample Id: 400-4744-11  
Date Sampled: 08/18/2005 1830  
Date Received: 08/20/2005 0955

Client Sample ID: MW-10R

**GC/MS VOA**

|                         | Result/Qualifier | Unit | RL  | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|-----|--------|-----------------|-----------------|----------|
| Benzene                 | ND               | ug/L | 1.0 | 8260B  | 08/25/2005 1442 | 08/25/2005 1442 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1442 | 08/25/2005 1442 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1442 | 08/25/2005 1442 | 1.0      |
| Toluene                 | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1442 | 08/25/2005 1442 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 10  | 8260B  | 08/25/2005 1442 | 08/25/2005 1442 | 1.0      |
| Naphthalene             | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1442 | 08/25/2005 1442 | 1.0      |

Jason Terry  
Terry Environmental Services  
PO BOX 25  
Summerville, SC 29484

Job Number: 400-4744-1  
Lab Sample Id: 400-4744-12  
Date Sampled: 08/18/2005 1850  
Date Received: 08/20/2005 0955

Client Sample ID: MW-11R

|                         | Result/Qualifier | Unit | RL  | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|-----|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |     |        |                 |                 |          |
| Benzene                 | ND               | ug/L | 1.0 | 8260B  | 08/25/2005 1513 | 08/25/2005 1513 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1513 | 08/25/2005 1513 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1513 | 08/25/2005 1513 | 1.0      |
| Toluene                 | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1513 | 08/25/2005 1513 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 10  | 8260B  | 08/25/2005 1513 | 08/25/2005 1513 | 1.0      |
| Naphthalene             | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1513 | 08/25/2005 1513 | 1.0      |

Jason Terry  
Terry Environmental Services  
PO BOX 25  
Summerville, SC 29484

Job Number: 400-4744-1  
Lab Sample Id: 400-4744-13  
Date Sampled: 08/18/2005 1908  
Date Received: 08/20/2005 0955

Client Sample ID: MW-12

|                         | Result/Qualifier | Unit | RL  | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|-----|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |     |        |                 |                 |          |
| Benzene                 | ND               | ug/L | 1.0 | 8260B  | 08/25/2005 1549 | 08/25/2005 1549 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1549 | 08/25/2005 1549 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1549 | 08/25/2005 1549 | 1.0      |
| Toluene                 | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1549 | 08/25/2005 1549 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 10  | 8260B  | 08/25/2005 1549 | 08/25/2005 1549 | 1.0      |
| Naphthalene             | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1549 | 08/25/2005 1549 | 1.0      |



Jason Terry  
Terry Environmental Services  
PO BOX 25  
Summerville, SC 29484

Job Number: 400-4744-1  
Lab Sample Id: 400-4744-14  
Date Sampled: 08/18/2005 1432  
Date Received: 08/20/2005 0955

Client Sample ID: MW-13

**GC/MS VOA**

|                         | Result/Qualifier | Unit | RL  | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|-----|--------|-----------------|-----------------|----------|
| Benzene                 | ND               | ug/L | 1.0 | 8260B  | 08/25/2005 1625 | 08/25/2005 1625 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1625 | 08/25/2005 1625 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1625 | 08/25/2005 1625 | 1.0      |
| Toluene                 | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1625 | 08/25/2005 1625 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 10  | 8260B  | 08/25/2005 1625 | 08/25/2005 1625 | 1.0      |
| Naphthalene             | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1625 | 08/25/2005 1625 | 1.0      |

Jason Terry  
Terry Environmental Services  
PO BOX 25  
Summerville, SC 29484

Job Number: 400-4744-1  
Lab Sample Id: 400-4744-15  
Date Sampled: 08/18/2005 1444  
Date Received: 08/20/2005 0955

Client Sample ID: MW-14

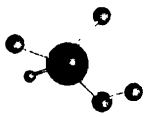
|                         | Result/Qualifier | Unit | RL  | Method | Date Prepared   | Date Analyzed   | Dilution |
|-------------------------|------------------|------|-----|--------|-----------------|-----------------|----------|
| <b>GC/MS VOA</b>        |                  |      |     |        |                 |                 |          |
| Benzene                 | ND               | ug/L | 1.0 | 8260B  | 08/25/2005 1700 | 08/25/2005 1700 | 1.0      |
| Ethylbenzene            | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1700 | 08/25/2005 1700 | 1.0      |
| Methyl tert-butyl ether | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1700 | 08/25/2005 1700 | 1.0      |
| Toluene                 | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1700 | 08/25/2005 1700 | 1.0      |
| Xylenes, Total          | ND               | ug/L | 10  | 8260B  | 08/25/2005 1700 | 08/25/2005 1700 | 1.0      |
| Naphthalene             | ND               | ug/L | 5.0 | 8260B  | 08/25/2005 1700 | 08/25/2005 1700 | 1.0      |

## Access Analytical - Chain of Custody Record

Project Submission # 2230.8

PO # 2199

Laboratory ID: 400-4744 <sup>028c</sup>

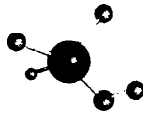
| Company Name: <u>Terry Environmental Services</u>   |                |                |  |           | Preservative: (*see codes below) <u>1</u>                  |   |  |   |  |  |
|---|----------------|----------------|--|-----------|--|---|--|---|--|--|
| Report To: <u>Jason Terry</u>   |                |                |  |           | ↓ REQUESTED LAB ANALYSIS: ↓<br><u>CEX, Uqpth. MITR</u>     | <p>* Preservative Codes (place corresponding # in block above analysis field): 0=None, 1=HCL, 2=HNO<sub>3</sub>, 3=H<sub>2</sub>SO<sub>4</sub>, 4=NaOH, 5=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, 6=NaHSO<sub>3</sub>, Other=Specify</p>  <p style="text-align: center;">ACCESS ANALYTICAL, INC.</p> <p style="text-align: center;">7478 Carlisle Street Irmo, SC 29063<br/>Phone: (803) 781-4243 Fax: 781-4303<br/>Toll Free (888) 315-4243<br/>www.accessanalyticalinc.com</p> |  |   |  |  |
| Address: <u>1753 N. Main St.</u>  |                |                |  |           |  |   |  |   |  |  |
| City: <u>Summerville</u> State: <u>SC</u> Zip: <u>29483</u>   |                |                |  |           |  |   |  |   |  |  |
| Phone: <u>843-873-8200</u> Fax: <u>843-873-8265</u>   |                |                |  |           |  |   |  |   |  |  |
| Email: <u>jterry@terryenvironmental.com</u>   |                |                |  |           |  |   |  |   |  |  |
| Project Name: <u>Hot Spot 3005</u>  |                |                |  |           |  |   |  |   |  |  |
| Sampled By (print): <u>Edward Evans</u>   |                |                |  |           |  |   |  |   |  |  |
| Sample Label  | Date Collected | Time Collected | Matrix   | # of Cont |  |   |  |   |  |  |
| MW-1  | 8/18/05        | 13:51          | GW   | 2         | X  |   |  |   |  |  |
| MW-1A   | 8/18/05        | 15:39          | GW   | 2         | X  |   |  |   | Note: Ref Quote #602                                     |  |
| MW-2  | 8/18/05        | 16:38          | GW   | 2         | X  |   |  |   |  |  |
| MW-3R   | 8/18/05        | 14:07          | GW   | 2         | X  |   |  |   |  |  |
| MW-4  | 8/18/05        | 16:08          | GW   | 2         | X  |   |  |   |  |  |
| MW-5  | 8/18/05        | 14:14          | GW   | 2         | X  |   |  |   |  |  |
| MU-6  | 8/18/05        | 17:52          | GW   | 2         | X  |   |  |   |  |  |
| MW-7  | 8/18/05        | 17:21          | GW   | 2         | X  |   |  |   |  |  |
| MW-8  | 8/18/05        | 18:16          | GW   | 2         | X  |   |  |   |  |  |
| MW-9  | 8/18/05        | 17:00          | GW   | 2         | X  |   |  |   |  |  |
| Turnaround Time:  |                |                | Project Location:  |           | Relinquished By:   |   | Date:  | Time:                                     | Received By:   |  |
| <input checked="" type="checkbox"/> Std. (5-7 Bus. days)<br><input type="checkbox"/> RUSH*<br>*Date Required: _____<br>(For rush work, results faxed by end of business day on date required) |                |                | <input checked="" type="checkbox"/> SC<br><input type="checkbox"/> NC<br>Other _____ (specify) |           | <u>Edward Evans</u><br><u>[Signature]</u><br><u>FAL EX</u> |   | <u>8/19/05</u><br><u>8/19/05</u><br><u>8/20/05</u> | <u>1135</u><br><u>1400</u><br><u>0955</u> | <u>[Signature]</u><br><u>FedEx</u><br><u>[Signature]</u> |  |

## Access Analytical - Chain of Custody Record

Project Submission # 3230.8

PO # 2199

Laboratory ID: 400-4744.2c

| Company Name: <u>Terry Environmental Serv</u>  |                |                |           |           | Preservative: <u>1</u><br><small>(*see codes below)</small>                               |   |  |  |                             |  |  |  |  |  |   |  |  |  |  |
|--|----------------|----------------|-----------|-----------|---|---|--|--|-----------------------------|--|--|--|--|--|---|--|--|--|--|
| Report To: <u>Jason Terry</u>  |                |                |           |           | REQUESTED LAB ANALYSIS: ↓<br><br><u>BTEX, Napth. MTBE</u>                                 | * Preservative Codes (place corresponding # in block above analysis field): 0=None, 1=HCL, 2=HNO <sub>3</sub> , 3=H <sub>2</sub> SO <sub>4</sub> , 4=NaOH, 5=Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , 6=NaHSO <sub>4</sub> , Other=Specify<br><br> ACCESS ANALYTICAL, INC.<br><br>Phone: (803) 781-4243<br>7478 Carlisle Street Fax: 781-4303<br>Immo, SC 29063 Toll Free (888) 315-4243<br>www.accessanalyticalinc.com |  |  |                             |  |  |  |  |  |   |  |  |  |  |
| Address: <u>1753 N. Main St.</u>   |                |                |           |           |   |   |  |  |                             |  |  |  |  |  |   |  |  |  |  |
| City: <u>Summerville</u> State: <u>SC</u> Zip: <u>29483</u>  |                |                |           |           |   |   |  |  |                             |  |  |  |  |  |   |  |  |  |  |
| Phone: <u>843-873-8200</u> Fax: <u>843-873-8765</u>  |                |                |           |           |   |   |  |  |                             |  |  |  |  |  |   |  |  |  |  |
| Email: <u>jterry@terryenvironmental.com</u>  |                |                |           |           |   |   |  |  |                             |  |  |  |  |  |   |  |  |  |  |
| Project Name: <u>Hot Spot 3005</u>   |                |                |           |           |   |   |  |  |                             |  |  |  |  |  |   |  |  |  |  |
| Sampled By (print): <u>Edward Evans</u>  |                |                |           |           |   |   |  |  |                             |  |  |  |  |  |   |  |  |  |  |
| Sample Label   | Date Collected | Time Collected | Matrix    | # of Cont |   |   |  |  |                             |  |  |  |  |  |   |  |  |  |  |
| <u>MW-10.R</u>   | <u>8/18/05</u> | <u>18:30</u>   | <u>GW</u> | <u>2</u>  | <u>X</u>  |   |  |  |                             |  |  |  |  |  |   |  |  |  |  |
| <u>MW-11.R</u>   | <u>8/18/05</u> | <u>18:50</u>   | <u>GW</u> | <u>2</u>  | <u>X</u>  |   |  |  | <u>Note: Ref Quote #602</u> |  |  |  |  |  |   |  |  |  |  |
| <u>MW-12</u>   | <u>8/18/05</u> | <u>19:08</u>   | <u>GW</u> | <u>2</u>  | <u>X</u>  |   |  |  |                             |  |  |  |  |  |   |  |  |  |  |
| <u>MW-13</u>   | <u>8/18/05</u> | <u>14:32</u>   | <u>GW</u> | <u>2</u>  | <u>X</u>  |   |  |  |                             |  |  |  |  |  |   |  |  |  |  |
| <u>MW-14</u>   | <u>8/18/05</u> | <u>14:44</u>   | <u>GW</u> | <u>2</u>  | <u>X</u>  |   |  |  |                             |  |  |  |  |  |   |  |  |  |  |
| <b>Turnaround Time:</b><br><input checked="" type="checkbox"/> Std. (5-7 Bus. days)<br><input type="checkbox"/> RUSH*<br>*Date Required: _____<br>(For rush work, results faxed by end of business day on date required) |                |                |           |           | Samples Recd. on Ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |   |  |  |                             | Project Location: <input checked="" type="checkbox"/> SC <input type="checkbox"/> NC _____ Other _____ (specify) |  |  |  |  | Relinquished By: <u>Edward Evans</u> Date: <u>8/19/05</u> Time: <u>1135</u> Received By: <u>RW Butts</u><br><u>RW Butts</u> <u>8/19/05</u> <u>1400</u> <u>FedEx</u><br><u>FedEx</u> <u>8/20/05</u> <u>0955</u> <u>[Signature]</u> |  |  |  |  |

**RECEIVED**

MAY 01 2003

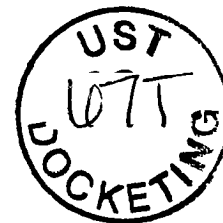
April 25, 2003

South Carolina DHEC  
Bureau of Underground Storage Tank Management  
2600 Bull Street  
Columbia, South Carolina 29201

UNDERGROUND STORAGE  
TANK PROGRAM

ATTENTION: Ms. Debra Thomas

Reference: **QUARTERLY SAMPLING REPORT**  
Hot Spot # 3005  
Site ID No. 12719



Dear Ms. Thomas:

Brooks & Medlock Engineering, PLLC (BME) has performed a quarterly sampling event for the referenced site. This sampling event is required as part of the scope of work outlined in Bid Number SB-18123-12/20/01-HW (Bid Package). This Preliminary Sampling Report provides the details and results of the sampling event.

***Corrective Action Progress Summary***

The mobile remediation system described in the Corrective Action Plan has not been in operation since the previous sampling event. Approximately 30,000 gallons of groundwater and petroleum product have been pumped, treated and discharged by the system. It appears that the combination of pump and treat and soil vapor extraction have proven very effective. Currently there is no free-phase petroleum product layer detected in any of the monitoring wells, specifically MW-1, and the CoC mass has been reduced by over 95%. Based upon these results, the system has been temporarily shutdown to see if the product removal and CoC reductions are sustained. The only monitoring well currently above the Site Specific Target Levels (SSTL) is MW-3. BME has made arrangements to modify the Corrective Action Plan for the site to address "stubborn" CoC concentrations represented by MW-3. BME has submitted an Underground Injection Control Permit to SCDHEC Bureau of Water in order to implement air sparging in the source area and downgradient towards MW-3. Your office was forwarded a copy of the permit application. We are currently awaiting approval.

***Sampling Event***

Field personnel from BME conducted a sampling event at the Hot Spot # 3005 located in Chesnee, SC on April 9<sup>th</sup> 2003. The remediation system had not been active for several months prior to the sampling event. Groundwater samples were collected in accordance with the South Carolina DHEC *Analytical Methodology for Groundwater and Soil Assessment Guidelines* dated March 15, 2000. Each monitoring well designated as a compliance point in the Bid Package was sampled according to the following steps:

1. A fresh pair of disposable Nitril™ gloves are donned to prevent cross-contamination.
2. The groundwater level is measured with a water level indicator and recorded. If free product is present, the product level is measured with an oil/water interface probe. Wells with free product are not sampled.
3. The well is purged with either a disposal polyethylene disposable bailer or a submersible well pump equipped with disposable vinyl tubing.
4. Periodic geochemical characteristic measurements are taken for pH, conductivity and temperature. Once the geochemical characteristics are stabilized (less than a 10% differential), the appropriate sample containers are filled. Care is taken on VOC vials to ensure no head space is allowed. The vials are provided by the analyzing laboratory.
5. Samples are placed on ice for shipment.
6. Non-disposal sampling equipment is decontaminated utilizing an Alconox™ wash and a triple rinse.
7. Purge water and “de-con” water were introduced into the groundwater remediation system for treatment and discharge.
8. Gloves and other disposal equipment (bailers, tubing) are changed out and containerized.

Copies of the field sheets with geochemical purge data for each monitoring well are provided as Attachment I.

### ***Sampling Results***

The groundwater elevation data was utilized to generate a potentiometric map depicting the site's surficial aquifer flow direction and gradient. Table 1 summarizes the groundwater elevation data. The general groundwater flow direction is towards the west side of the property, as previously reported. The potentiometric map is provided as Figure 1.

Groundwater samples were analyzed by Pace Analytical (SC Lab Certification No. 99006). Samples were analyzed for benzene, toluene, ethylbenzene, xylene, naphthalene and MTBE by EPA Method 8260. The results are summarized in Table 2. Copies of the laboratory analytical are provided in Attachment II. The results show that the CoC mass has been reduced by over 95%. One sampling event anomaly was that monitoring well MW-5 could not be sampled due to dry well conditions, which was the case in the previous sampling event. MW-2 could not be located at the site as with previous sampling events. It is believed that this well has been abandoned and did not exist at the beginning of this Corrective Action initiative.

***Closing***

BME is prepared to proceed with air sparging once the UIC permit has been issued. If you have any questions or comments, please contact me at (828) 232-4700.

Sincerely,

**Brooks & Medlock Engineering, PLLC**

A handwritten signature in black ink, appearing to read "Mark Brooks". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Mark Brooks, P.E.  
Environmental Engineer

Cc: Judy Laughter, R.L. Jordan Oil Co.

Attachments: Figures  
Tables  
Attachment I: Sample Logs  
Attachment II: Laboratory Analytical

**ATTACHEMENT I**

**SAMPLE LOGS**

























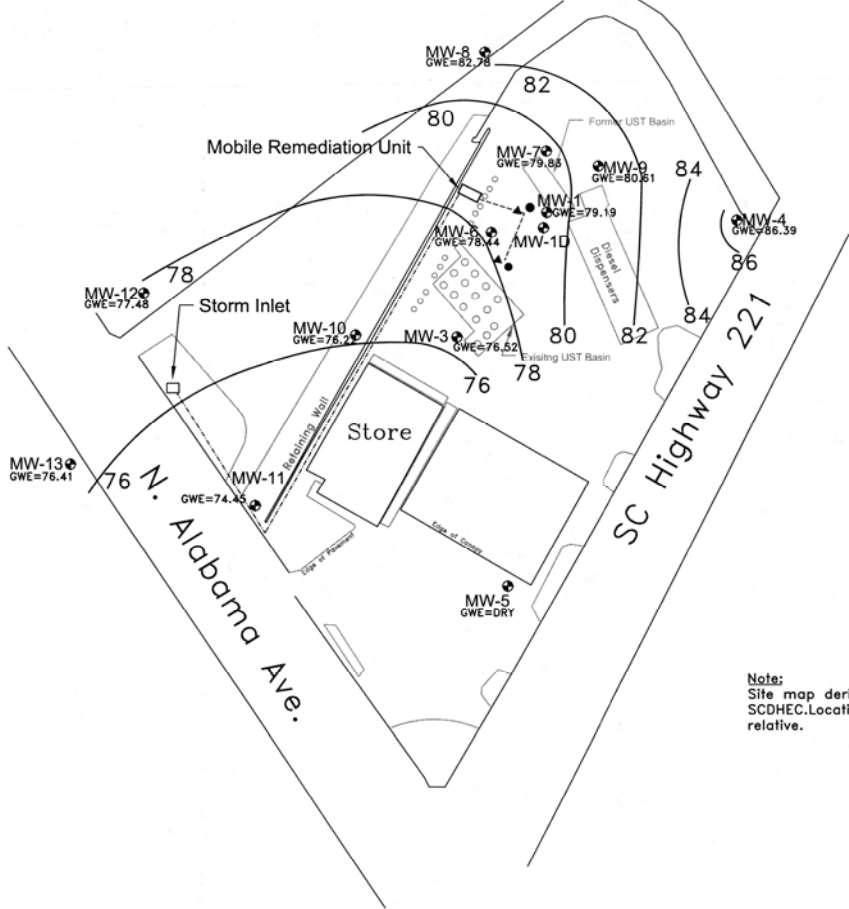
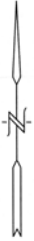






**ATTACHMENT II**  
**LABORATORY DATA**


**FIGURES**



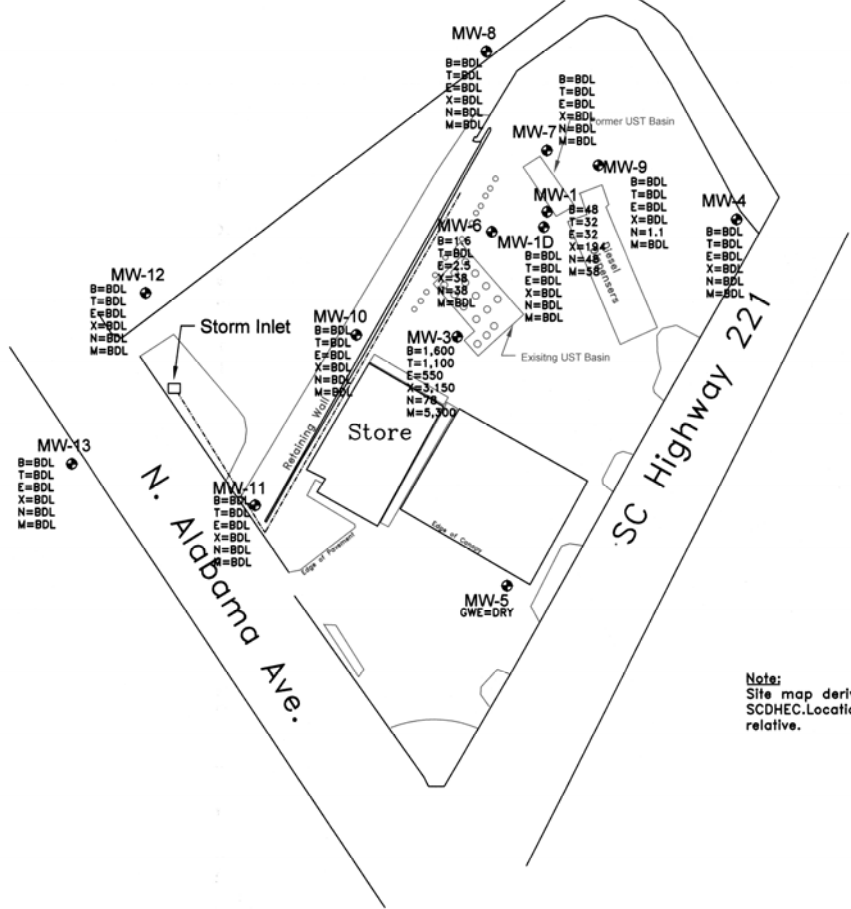
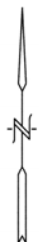
**LEGEND:**

- GWE = Groundwater Elevation
- Groundwater Contour
- Compliance Monitoring Well
- ▲ SVE Well
- GW Extraction Well
- - - - Trenching
- - - - Discharge Line

**Note:**  
 Site map derived from figures provided by SCDHEC. Locations of wells and site features are relative.

|   |               |         |
|---|---------------|---------|
| <br><b>BROOKS &amp; MEDLOCK</b><br>ENGINEERING, PLLC<br>712 MERRIMON AVENUE<br>ASHEVILLE, N.C. 28804 |               |         |
| TITLE: Potentiometric Map   |               |         |
| PROJECT: Hot Spot # 3005 CAP  | FIGURE: 1     |         |
| DATE: 04/09/03  | SCALE: N.T.S. | REV.: 2 |






**LEGEND:**

GWE = Groundwater Elevation

● Compliance Monitoring Well

- B=Benzene in ug/l
- T=Toluene in ug/l
- E=Ethylbenzene in ug/l
- X=Xylene in ug/l
- N=Naphthalene in ug/l
- M=MTBE in ug/l

**Note:**  
Site map derived from figures provided by SCDHEC. Locations of wells and site features are relative.

|   |               |         |
|---|---------------|---------|
| <br><b>BROOKS &amp; MEDLOCK</b><br>ENGINEERING, PLLC<br>718 MERRIMON AVENUE<br>ASHEVILLE, N.C. 28804 |               |         |
| TITLE: SITE COC MAP   |               |         |
| PROJECT: Hot Spot # 3005 CAP  | FIGURE: 2     |         |
| DATE: 04/09/03  | SCALE: N.T.S. | REV.: 1 |

## **TABLES**

BROOKS & MEDLOCK ENGINEERING, PLLC

TABLE 1  
 GROUNDWATER ELEVATION DATA  
 HOT SPOT # 3005  
 April 9, 2003

| <i>Well ID</i> | <i>Well TOC* Elevation</i> | <i>Depth to Water</i> | <i>Depth to Product</i> | <i>Product Thickness</i> | <i>Groundwater Elevation</i> |
|----------------|----------------------------|-----------------------|-------------------------|--------------------------|------------------------------|
| MW-1           | 104.89                     | 25.70                 | -                       | -                        | 79.19                        |
| MW-3           | 104.92                     | 28.40                 | -                       | -                        | 76.52                        |
| MW-6           | 104.14                     | 25.70                 | -                       | -                        | 78.44                        |
| MW-7           | 104.52                     | 24.69                 | -                       | -                        | 79.83                        |
| MW-9           | 105.43                     | 24.82                 | -                       | -                        | 80.61                        |
| MW-10          | 96.57                      | 20.35                 | -                       | -                        | 76.22                        |
| MW-11          | 95.15                      | 20.70                 | -                       | -                        | 74.45                        |
| MW-4           | 111.32                     | 24.93                 | -                       | -                        | 86.39                        |
| MW-5           | 103.57                     | dry                   | -                       | -                        | -                            |
| MW-8           | 101.79                     | 19.01                 | -                       | -                        | 82.78                        |
| MW-12          | 97.03                      | 19.55                 | -                       | -                        | 77.48                        |
| MW-13          | 95.89                      | 19.48                 | -                       | -                        | 76.41                        |
| MW-2           | No Data                    | No Data               | -                       | -                        | -                            |

\*TOC = top of casing

\*\* Elevation adjusted for free product

**BROOKS & MEDLOCK ENGINEERING, PLLC**

**TABLE 2  
CoC CONCENTRATIONS  
HOT SPOT #3005**

| Well       | Date     | Parameters (ug/l) |         |              |         |         |           | Total Mass |
|------------|----------|-------------------|---------|--------------|---------|---------|-----------|------------|
|            |          | Benzene           | Toluene | Ethylbenzene | Xylenes | Naphth. | MTBE      |            |
| SC GW Std. | NA       | 5                 | 1,000   | 700          | 10,000  | 25      | 40        |            |
| MW-1       | SSTL     | 13,000            | 47,000  | 39,000       | 206,000 | 2,000   | 190       | 307,190    |
|            | 9/29/01  | 226,000           | 301,000 | 280,000      | 278,000 | 2,000   | 5,110,000 | 6,197,000  |
|            | 2/15/02  | NS                | NS      | NS           | NS      | NS      | NS        | -          |
|            | 8/15/02  | <100              | <100    | 2.68         | 129.6   | 2,060   | <100      | 2,492      |
|            | 12/16/02 | <5                |         |              | 14.0    |         |           |            |
| MW-3       | 4/9/03   | 48                | 32      | 32           | 194     | 48      | 58        | 412        |
|            | SSTL     | 2,140             | 155     | 295          | 2,260   | 300     | 150       | 5,300      |
|            | 9/29/01  | 2,140             | 155     | 295          | 2,260   | 300     | 7,460     | 12,610     |
|            | 2/15/02  | NS                | NS      | NS           | NS      | NS      | NS        | -          |
|            | 8/15/02  | NS                | NS      | NS           | NS      | NS      | NS        | 12,610 *   |
| MW-6       | 12/16/02 | 2,300             | 1,600   | 600          | 3,570   | 100     | 9,800     | 17,970     |
|            | 4/9/03   | 1,600             | 1,100   | 550          | 3,150   | 78      | 5,300     | 11,778     |
|            | SSTL     | 7                 | 2       | 24           | 97      | 138     | 5         | 273        |
|            | 9/29/01  | 7                 | 2       | 24           | 97      | 138     | <5        | 273        |
|            | 2/15/02  | 3                 | <1      | 8            | 25.8    | 26.8    | <1        | 66         |
| MW-7       | 8/15/02  | <1                | <1      | 2            | 44.9    | 38.9    | <1        | 90         |
|            | 4/9/03   | 1.6               | <1      | 2.5          | 38.0    | 38.0    | <1        | 83         |
|            | SSTL     | 1                 | 1       | 1            | 1       | 5       | 5         | 14         |
|            | 9/29/01  | <1                | <1      | <1           | <1      | <5      | <5        | 14         |
|            | 2/15/02  | <1                | <1      | <1           | <2      | <1      | <1        | 7          |
| MW-9       | 8/15/02  | <1                | <1      | <1           | <2      | <1      | <1        | 7          |
|            | 4/9/03   | <1                | <1      | <1           | <2      | <1      | <1        | 7          |
|            | SSTL     | 1                 | 1       | 1            | 1       | 5       | 5         | 14         |
|            | 9/29/01  | <1                | <1      | <1           | <1      | <5      | <5        | 14         |
|            | 2/15/02  | <1                | <1      | <1           | <2      | <1      | <1        | 7          |
| MW-10      | 8/15/02  | <1                | <1      | <1           | <2      | <1      | <1        | 7          |
|            | 4/9/03   | <1                | <1      | <1           | <2      | 1.1     | <1        | 7          |
|            | SSTL     | 1                 | 1       | 1            | 1       | 5       | 5         | 14         |
|            | 9/29/01  | <1                | <1      | <1           | <1      | <5      | <5        | 14         |
|            | 2/15/02  | <1                | <1      | <1           | <2      | <1      | <1        | 7          |
| MW-11      | 8/15/02  | <1                | <1      | <1           | <2      | <1      | <1        | 7          |
|            | 4/9/03   | <1                | <1      | <1           | <2      | <1      | <1        | 7          |
|            | SSTL     | 1                 | 1       | 1            | 1       | 5       | 5         | 14         |
|            | 9/29/01  | <1                | <1      | <1           | <1      | <5      | <5        | 14         |
|            | 2/15/02  | <1                | <1      | <1           | <2      | <1      | <1        | 7          |
| 8/15/02    | <1       | <1                | <1      | <2           | <1      | <1      | 7         |            |
| 4/9/03     | <1       | <1                | <1      | <2           | <1      | <1      | 7         |            |

|                       |         |
|-----------------------|---------|
| SSTL MASS             | 312,819 |
| CURRENT SAMPLING MASS | 12,301  |
| % DIFFERENCE          | 96.07%  |

## BROOKS & MEDLOCK ENGINEERING, PLLC

### ADDITIONAL WELLS SAMPLED PER BID PACKAGE

|       |                |      |    |      |     |      |    |
|-------|----------------|------|----|------|-----|------|----|
| MW-1D | 3/9/01         | <1   | <1 | <1   | <3  | <1   | <1 |
|       | 3/14/02        | <1   | <1 | <1   | <3  | <1   | <1 |
|       | 8/15/02        | <1   | <1 | <1   | <2  | <1   | <1 |
|       | 4/9/03         | <1   | <1 | <1   | <2  | <1   | <1 |
| MW-2  | No recent data |      |    |      |     |      |    |
|       | 3/14/02        | 5.62 | <1 | 68.8 | 233 | 61.7 | <1 |
|       | 8/15/02        | NS   | NS | NS   | NS  | NS   | NS |
|       | 4/9/03         | NS   | NS | NS   | NS  | NS   | NS |
| MW-4  | 3/9/01         | <1   | <1 | <1   | <3  | <1   | <1 |
|       | 3/14/02        | <1   | <1 | <1   | <2  | <1   | <1 |
|       | 8/15/02        | <1   | <1 | <1   | <2  | <1   | <1 |
|       | 4/9/03         | <1   | <1 | <1   | <2  | <1   | <1 |
| MW-5  | 3/9/01         | NS   | NS | NS   | NS  | NS   | NS |
|       | 3/14/02        | NS   | NS | NS   | NS  | NS   | NS |
|       | 8/15/02        | NS   | NS | NS   | NS  | NS   | NS |
|       | 4/9/03         | NS   | NS | NS   | NS  | NS   | NS |
| MW-8  | 3/9/01         | <1   | <1 | <1   | <3  | <1   | <1 |
|       | 3/14/02        | <1   | <1 | <1   | <2  | <1   | <1 |
|       | 8/15/02        | <1   | <1 | <1   | <2  | <1   | <1 |
|       | 4/9/03         | <1   | <1 | <1   | <2  | <1   | <1 |
| MW-12 | 3/9/01         | <1   | <1 | <1   | <3  | <1   | <1 |
|       | 3/14/02        | <1   | <1 | <1   | <2  | <1   | <1 |
|       | 8/15/02        | <1   | <1 | <1   | <2  | <1   | <1 |
|       | 4/9/03         | <1   | <1 | <1   | <2  | <1   | <1 |
| MW-13 | 3/9/01         | <1   | <1 | <1   | <3  | <1   | <1 |
|       | 3/14/02        | <1   | <1 | <1   | <2  | <1   | <1 |
|       | 8/15/02        | <1   | <1 | <1   | <2  | <1   | <1 |
|       | 4/9/03         | <1   | <1 | <1   | <2  | <1   | <1 |

\*CoC Mass Assumed Unaltered

NS = Not Sampled due to dry well conditions



2600 Bull Street  
Columbia, SC 29201-1708

**UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT**

**Phone (800) 826-5435 Fax (803) 896-6245**

**MR MARK BROOKS  
BROOKS & MEDLOCK ENGINEERING  
712 MERRIMON AVE  
ASHEVILLE NC 28804**



Re: Hot Spot 3005, 107 Hampton St., Chesnee, SC  
UST Permit #12719; CA# 13851:P  
Bid #: SB-18123-12/20/01-HW; PO #385179  
Corrective Action Plan /Engineering Report received February 7, 2002  
BAQC Permit Exemption received February 21, 2002  
NPDES General Permit received April 10, 2002  
Wastewater Treatment Construction Permit received April 10, 2002  
Spartanburg County

Dear Mr. Brooks:

The Underground Storage Tank Program has reviewed the referenced documents. As required by Section 280.67 of the South Carolina Underground Storage Tank Regulations R.61-92, the Bureau has provided a public notice period including notice of the pending corrective actions to the surrounding landowners via certified correspondence. No objections to the proposed actions were expressed; therefore, corrective action may proceed at this time. A copy of the Bureau of Air Quality Memorandum, Monitoring Well Installation Permit, and Permission Form are enclosed.

As stated in specification #4, the Corrective Action Plan is to be implemented within 30 days from receipt of this letter. As stated in specification #7, monitoring reports are to be submitted on a quarterly basis. The first Corrective Action Status Report will be due 3 months from the date of this letter.

The Bureau grants pre-approval for transportation of drums of virgin petroleum contaminated soil and/or drums of groundwater from the referenced site to a permitted treatment facility. The contaminated soil and/or groundwater must be properly stored in labeled 55-gallon drums or equivalent containers. The contaminated soil and/or groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included in the monitoring reports.

All future invoices and/or other rehabilitation activities must comply with current SUPERB criteria per Section 44-2-20(2) and the referenced bid special conditions. Please reference **Cost Proposal Number 13851:P** on all pay-for-performance invoices. Please note,

Mr. Brooks

Page 2

per Section 44-2-40 of the SUPERB Statute, an invoice for site rehabilitation activities must be submitted on or before May 8, 2002 (four months from Statement of Award) or the Cost Agreement will be uncommitted.

On all correspondence regarding this site, please reference the UST Permit Number. On the invoices, please reference the UST Permit Number and Cost Agreement Number. If you have questions concerning this correspondence, feel free to contact me at (803) 896-6397 or (800) 826-5435 (within SC only).

Sincerely,



Debra L. Thoma, Hydrogeologist  
State Lead and Field Services Section  
Assessment and Corrective Action Division

enc: SCDHEC Permission Form  
Monitoring Well Installation Permit  
Bureau of Air Quality Memorandum  
Corrective Action Invoice Form (3687)

cc: Judith Laughter, RL Jordan Oil Co., PO Box 2527, Spartanburg, SC, 29304  
Technical Read File (w/o enc.)  
Financial File (w/out enc.)

DHEC/UST/DLT/4.12.02/11290ca-go

### CORRECTIVE ACTION PLAN FOR NATURAL ATTENUATION

UST Permit Name: 41 Spot 3005  
Date Release Reported: Aug 04, 2003  
Priority Class: 3BA

UST Permit #: 12719  
Project Manager: Alex Butler

#### CoC Concentrations (ug/L)

Benzene: 250  
Toluene: 55  
Ethylbenzene: 190  
Xylenes: 950  
MTBE: 420  
Naphthalene: 380

#### SSTL Concentration (ug/L)

Benzene: 2140\*  
Toluene: ~~1000~~ 1000  
Ethylbenzene: 700  
Xylenes: 10,000  
MTBE: 841\*\* SSTL Model v. 1.0  
Naphthalene: 920\*

\* From Release 1 Box

Date of Last Sampling: May 17, 2005 Contractor: Terry Environmental

Assessment Activities Completed: Tier II, ACA on Release #1

# of Sampling Events Completed: 2

Groundwater Velocity (ft/yr): 12.8 Groundwater Flow Direction: E SE

Depth to Groundwater: 25' Soil Lithology: \_\_\_\_\_

Distance to the Nearest Receptor? Property line 188' Creek 600'

Type of Receptor? \_\_\_\_\_

Is the CoC Plume Defined (Yes/No)? Yes

Is the CoC Plume Stable (Yes/No)? Yes

#### Additional Comments:

Publ. Noticed Under Release #1 ACA

Sample 18 months to verify

Project Manager: *Alex Butler*

Date: 6/27/05



-----  
 Site ID: 12719                      06/27/2005                      CoC : MtBE  
 -----

Source:                      MW-3                                      Receptor: Property Line  
 -----

Input Parameters:

-----  
 CoC RBSL:                                      0.040                      mg/L  
 Width across flow dir.:                      5.0000                      m  
 Estimated Source Depth:                      2.600                      m  
 Distance along x-axis:                      57.000                      m  
 Distance along y-axis:                      0.000                      m  
 Distance along z-axis:                      0.000                      m  
 Seepage Velocity:                              0.0000001237 m/s  
 Time of transport:                              100.0                      years  
 First Order Decay Rate                      0.0000000000 /s  
 -----

Calculations:

-----  
 EXP( 0.0000) = 1.0000  
 ERFC( -3.5320) = 2.0000  
 ERF( 0.1201) = 0.1349  
 ERF( 0.3225) = 0.3522

Decay is NOT considered

Ax:                      5.7000  
 Ay:                      1.9000  
 Az:                      0.2850  
 -----

Results:

-----  
 Csstl :                      841.7531                      ug/L  
 Csstl :                      0.8417531                      mg/L  
 -----

Contents of this program and its use are the sole property of the South Carolina Department of Health and Environmental Control(SCDHEC).

Program Developed by Sriram Madabhushi.  
 Unauthorized use is strictly prohibited.



Healthy People. Healthy Communities.

R L JORDAN OIL COMPANY OF NORTH CAROLINA  
PO BOX 2527  
SPARTANBURG SC 29304-2527

JUN 13 2017



Re: **QAPP Contractor Addendum/SSWP Directive for MW installation and GWS**  
Hot Spot 3005, 107 Hampton St, Chesnee, SC 29323  
UST Permit # 12719  
Release reported August 04, 2003  
Monitoring Report received January 21, 2015  
Spartanburg County

Dear Sir or Madam:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by Terry Environmental Services, Inc. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels (RBSLs). The next appropriate scope of work at the site is to install two monitoring wells, west and south-west of MW-5, and a comprehensive groundwater sampling event.

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of monitoring well installation and groundwater sampling is necessary. The assessment must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulations. A copy of the UST QAPP is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/>.

**Your contractor must complete the Site-Specific QAPP Contractor addendum (QAPPA) or the Site-Specific Work Plan (SSWP) if your contractor has an approved Annual Contractor Quality Assurance Plan (ACQAP). The QAPPA or SSWP and Cost Proposal must be submitted within 30 days from the date of this letter.** Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

On all correspondence regarding this site, please reference UST Permit # 12719. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-0592, fax me at (803) 898-0673, or e-mail me at patterkc@dhec.sc.gov.

Sincerely,

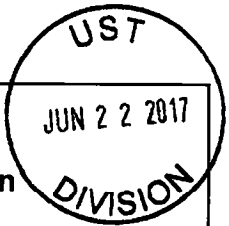
A handwritten signature in black ink, appearing to read 'K. Patterson', with a long horizontal line extending to the right.

Kyle Patterson, Hydrogeologist  
Assessment Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

cc: Terry Environmental Services, Inc., PO BOX 25, Summerville, SC 29484  
Technical file

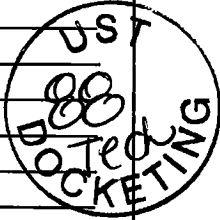


**Site-Specific Work Plan for Approved ACQAP  
Underground Storage Tank Management Division**



To: Kyle Patterson (SCDHEC Project Manager)  
 From: Kelly Cone (Contractor Project Manager)  
 Contractor: TERRY Environmental Services, Inc. UST Contractor Certification Number: UCC-0223

Facility Name: Hot Spot #3005 UST Permit #: 12719  
 Facility Address: 107 Hampton Street, Chesnee, South Carolina 29323  
 Responsible Party: RL Jordan Oil Co. of NC (Contact: Ms. Cyndi Suttles) Phone: 864-585-2784  
 RP Address: PO Box 2527, Spartanburg, SC 29304  
 Property Owner (if different): EJ Enterprises Inc.  
 Property Owner Address: PO Box 2527, Spartanburg, SC 29304  
 Current Use of Property: Commercial



**Scope of Work** (Please check all that apply)

- IGWA                       Tier II                       Groundwater Sampling                       GAC  
 Tier I                       Monitoring Well Installation                       Other \_\_\_\_\_

**Analyses** (Please check all that apply)

- Groundwater/Surface Water:  
 BTEXNMDCA (8260B)                       Lead                       BOD                       Methane  
 Oxygenates (8260B)                       8 RCRA Metals                       Nitrate                       Ethanol  
 EDB (8011)                       TPH                       Sulfate                       Dissolved Iron  
 PAH (8270D)                       pH                       Other \_\_\_\_\_
- Drinking Water Supply Wells:  
 BTEXNMDCA (524.2)                       Mercury (200.8 245.1 or 245.2)                       EDB (504.1)  
 Oxygenates & Ethanol (8260B)                       RCRA Metals (200.8)
- Soil:  
 BTEXNM     Lead                       RCRA Metals                       TPH-DRO (3550B/8015B)                       Grain Size  
 PAH                       Oil & Grease (9071)                       TPH-GRO (5030B/8015B)                       TOC
- Air:  
 BTEXN

**Sample Collection** (Estimate the number of samples of each matrix that are expected to be collected.)

|                           |                            |                   |                     |
|---------------------------|----------------------------|-------------------|---------------------|
| – _____ Soil              | – _____ Water Supply Wells | – _____ Air       | 1 _____ Field Blank |
| 17 _____ Monitoring Wells | – _____ Surface Water      | 1 _____ Duplicate | 1 _____ Trip Blank  |

**Field Screening Methodology**

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.  
 # of shallow points proposed: – \_\_\_\_\_ Estimated Footage: – \_\_\_\_\_ feet per point  
 # of deep points proposed: – \_\_\_\_\_ Estimated Footage: – \_\_\_\_\_ feet per point  
 Field Screening Methodology: – \_\_\_\_\_

**Permanent Monitoring Wells**

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.  
 # of shallow wells: 2 Estimated Footage: 70' (2 x 35') feet per point  
 # of deep wells: – \_\_\_\_\_ Estimated Footage: – \_\_\_\_\_ feet per point  
 # of recovery wells: – \_\_\_\_\_ Estimated Footage: – \_\_\_\_\_ feet per point  
 Comments, if warranted: Depth to groundwater in existing well MW-5 historically ranges from 29-32 feet bgs.

UST Permit #: 12719 Facility Name: Hot Spot #3005

**Implementation Schedule** (Number of calendar days from approval)

Field Work Start-Up: 14-30 days Field Work Completion: 30-45 days  
Report Submittal: 60 days # of Copies Provided to Property Owners: RP only

**Aquifer Characterization**

Pump Test:  Slug Test:  (Check one and provide explanation below for choice)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Investigation Derived Waste Disposal**

Soil: 1.33 Tons Purge Water: 75 Gallons  
Drilling Fluids: 50 Gallons Free-Phase Product: - Gallons

**Additional Details For This Scope of Work**

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

Installation of two (2) additional shallow monitoring wells west and southwest of MW-5; followed by a comprehensive groundwater sampling event. Existing monitoring wells MW-1, MW-2, MW-3R, MW-4 through MW-9, MW-10R, MW-11R, MW-12 through MW-14, and MW-1D and newly installed monitoring wells MW-15 and MW-16 will be sampled. The existing monitoring wells were last sampled December 2014 and are proposed to be purged prior to sampling. A subsequent survey will also be conducted.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**

Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: \_\_\_\_\_  
SCDHEC Certification Number: \_\_\_\_\_  
Name of Laboratory Director: \_\_\_\_\_

Yes Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: \_\_\_\_\_  
SCLLR Certification Number: \_\_\_\_\_

\_\_\_\_ Other variations from ACQAP. Please describe below.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attachments**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:  
North Arrow Proposed monitoring well locations  
Location of property lines Legend with facility name and address, UST permit number, and bar scale  
Location of buildings Streets or highways (indicate names and numbers)  
Previous soil sampling locations Location of all present and former ASTs and USTs  
Previous monitoring well locations Location of all potential receptors  
Proposed soil boring locations
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



**ASSESSMENT COMPONENT COST AGREEMENT**

**SOUTH CAROLINA**

Department of Health and Environmental Control

Underground Storage Tank Management Division

State Underground Petroleum Environmental Response Bank Account

August 16, 2016

**Facility Name:** Hot Spot #3005

**UST Permit #:** 12719

**Cost Agreement #:** Proposal

| ITEM   | QUANTITY | UNIT              | UNIT PRICE | TOTAL      |
|--|----------|-------------------|------------|------------|
| <b>1. Plan Preparation</b>   |          |                   |            |            |
| A1. Site-specific Work Plan  | 1        | each              | \$150.00   | \$150.00   |
| B1. Tax Map  |          | each              | \$70.00    | \$0.00     |
| C1. Tier II or Comp. Plan /QAPP Appendix B   |          | each              | \$250.00   | \$0.00     |
| <b>2. A1. Receptor Survey *</b>  |          |                   |            |            |
|  |          | each              | \$551.00   | \$0.00     |
| <b>3. Survey (500 ft x 500 ft)</b>   |          |                   |            |            |
| A1. Comprehensive Survey   |          | each              | \$1,040.00 | \$0.00     |
| <b>B. Subsurface Geophysical Survey</b>  |          |                   |            |            |
| 1B. < 10 meters below grade  |          | each              | \$1,300.00 | \$0.00     |
| 2B. > 10 meters below grade  |          | each              | \$2,310.00 | \$0.00     |
| C1. Geophysical UST or Drum Survey   |          | each              | \$910.00   | \$0.00     |
| <b>4. Mob/Demob</b>  |          |                   |            |            |
| A1. Equipment  | 1        | each              | \$1,020.00 | \$1,020.00 |
| B1. Personnel (9, 10, 17)  | 3        | each              | \$423.00   | \$1,269.00 |
| C1. Adverse Terrain Vehicle  |          | each              | \$500.00   | \$0.00     |
| <b>5. A1. Soil Borings (hand auger)*</b>   |          |                   |            |            |
|  |          | foot              | \$5.00     | \$0.00     |
| <b>6. Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)*</b> |          |                   |            |            |
| AA. Standard   |          | per foot          | \$15.00    | \$0.00     |
| C1. Fractured Rock   |          | per foot          | \$20.20    | \$0.00     |
| <b>7. A1. Soil Leachability Model</b>  |          |                   |            |            |
|  |          | each              | \$60.00    | \$0.00     |
| <b>8. Abandonment (per foot)*</b>  |          |                   |            |            |
| A1. 2" diameter or less  |          | per foot          | \$3.10     | \$0.00     |
| B1. Greater than 2" to 6" diameter   |          | per foot          | \$4.50     | \$0.00     |
| C1. Dug/Bored well (up to 6 feet diameter)   |          | per foot          | \$15.00    | \$0.00     |
| <b>9. Well Installation (per foot)*</b>  |          |                   |            |            |
| A1. Water Table (hand augered)   |          | per foot          | \$10.60    | \$0.00     |
| B1. Water Table (drill rig)  | 70       | per foot          | \$38.00    | \$2,660.00 |
| CC. Telescoping  |          | per foot          | \$50.00    | \$0.00     |
| DD. Rock Drilling  |          | per foot          | \$58.00    | \$0.00     |
| E1. 2" Rock Coring   |          | per foot          | \$30.90    | \$0.00     |
| G1. Rock Multi-sampling ports/screens  |          | per foot          | \$33.40    | \$0.00     |
| HH. Recovery Well (4" diameter)  |          | per foot          | \$45.00    | \$0.00     |
| II. Pushed Pre-packed screen (1.25" dia)   |          | per foot          | \$15.00    | \$0.00     |
| J1. Rotasonic (2" diameter)  |          | per foot          | \$44.00    | \$0.00     |
| K. Re-develop Existing Well  |          | per foot          | \$11.00    | \$0.00     |
| <b>10. Groundwater Sample Collection / Gauge Depth to Water or Product *</b>   |          |                   |            |            |
| A1. Groundwater Purge  | 17       | per well/receptor | \$60.00    | \$1,020.00 |
| B1. Air or Vapors  |          | per receptor      | \$12.00    | \$0.00     |
| C1. Water Supply   |          | per well/receptor | \$22.00    | \$0.00     |
| D1. Groundwater NP or Dup (1)  | 1        | per well/receptor | \$28.00    | \$28.00    |
| E1. Gauge Well only  |          | per well          | \$7.00     | \$0.00     |
| F1. Sample Below Product   |          | per well          | \$12.00    | \$0.00     |
| G1. Passive Diffusion Bag  |          | each              | \$26.00    | \$0.00     |
| H1. Field Blank  | 1        | each              | \$24.60    | \$24.60    |

|  |      |            |          |  |            |
|--|------|------------|----------|--|------------|
| <b>11. Laboratory Analyses-Groundwater</b>   |      |            |          |  |            |
| A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)         | 20   | per sample | \$122.00 |  | \$2,440.00 |
| AA1. Lead, Filtered                          |      | per sample | \$13.80  |  | \$0.00     |
| B2. Rush EPA Method 8260B (All of item A.)   |      | per sample | \$153.60 |  | \$0.00     |
| C2. Trimethal, Butyl, and Isopropyl Benzenes |      | per sample | \$36.40  |  | \$0.00     |
| D1. PAH's                                    |      | per sample | \$60.60  |  | \$0.00     |
| E1. Lead                                     |      | per sample | \$16.00  |  | \$0.00     |
| F1. EDB by EPA 8011                          | 19   | per sample | \$45.20  |  | \$858.80   |
| FF1. EDB by EPA Method 8011 Rush             |      | per sample | \$68.20  |  | \$0.00     |
| G1. 8 RCRA Metals                            |      | per sample | \$63.40  |  | \$0.00     |
| H1. TPH (9070)                               |      | per sample | \$41.00  |  | \$0.00     |
| II. pH                                       |      | per sample | \$5.20   |  | \$0.00     |
| J1. BOD                                      |      | per sample | \$20.00  |  | \$0.00     |
| PP. Ethanol                                  |      | per sample | \$14.80  |  | \$0.00     |
| <b>11. Analyses-Drinking Water</b>           |      |            |          |  |            |
| L. BTEXNM+1,2 DCA (524.2)                    |      | per sample | \$124.05 |  | \$0.00     |
| M. 7-OXYGENATES & ETHANOL (8260B)            |      | per sample | \$91.75  |  | \$0.00     |
| N. EDB (504.1)                               |      | per sample | \$79.50  |  | \$0.00     |
| O. RCRA METALS (200.8)                       |      | per sample | \$100.00 |  | \$0.00     |
| <b>11. Analyses-Soil</b>                     |      |            |          |  |            |
| Q1. BTEX + Naphth.                           |      | per sample | \$64.00  |  | \$0.00     |
| R1. PAH's                                    |      | per sample | \$64.04  |  | \$0.00     |
| S1. 8 RCRA Metals                            |      | per sample | \$56.40  |  | \$0.00     |
| U1. TPH-DRO (3550C/8015C)                    |      | per sample | \$40.00  |  | \$0.00     |
| V1. TPH- GRO (5030B/8015C)                   |      | per sample | \$35.96  |  | \$0.00     |
| W1. Grain size/hydrometer                    |      | per sample | \$104.00 |  | \$0.00     |
| X1. Total Organic Carbon                     |      | per sample | \$30.60  |  | \$0.00     |
| <b>11. Analyses-Air</b>                      |      |            |          |  |            |
| Y1. BTEX + Naphthalene                       |      | per sample | \$216.00 |  | \$0.00     |
| <b>11. Analyses-Free Phase Product</b>       |      |            |          |  |            |
| Z1. Hydrocarbon Fuel Identification          |      | per sample | \$357.00 |  | \$0.00     |
| <b>12. Aquifer Characterization</b>          |      |            |          |  |            |
| A1. Pumping Test*                            |      | per hour   | \$23.00  |  | \$0.00     |
| B1. Slug Test*                               |      | per test   | \$191.00 |  | \$0.00     |
| C1. Fractured Rock                           |      | per test   | \$100.00 |  | \$0.00     |
| 13. A1. Free Product Recovery Rate Test*     |      | each       | \$38.00  |  | \$0.00     |
| <b>14. Fate/Transport Modeling</b>           |      |            |          |  |            |
| A1. Mathematical Model                       |      | each       | \$100.00 |  | \$0.00     |
| B1. Computer Model                           |      | each       | \$100.00 |  | \$0.00     |
| <b>15. Risk Evaluation</b>                   |      |            |          |  |            |
| A. Tier I Risk Evaluation                    |      | each       | \$300.00 |  | \$0.00     |
| B1. Tier II Risk Evaluation                  |      | each       | \$100.00 |  | \$0.00     |
| 16. A1. Subsequent Survey*                   | 1    | each       | \$260.00 |  | \$260.00   |
| <b>17. Disposal (gallons or tons)*</b>       |      |            |          |  |            |
| AA. Wastewater                               | 75   | gallon     | \$0.56   |  | \$42.00    |
| BB. Free Product                             |      | gallon     | \$0.50   |  | \$0.00     |
| C1. Soil Treatment/Disposal                  | 1.33 | ton        | \$60.00  |  | \$79.80    |
| D1. Drilling fluids                          | 50   | gallon     | \$0.42   |  | \$21.00    |
| <b>18. Miscellaneous (attach receipts)</b>   |      |            |          |  |            |
|  |      | each       | \$0.00   |  | \$0.00     |
|  |      | each       | \$0.00   |  | \$0.00     |
|  |      | each       | \$0.00   |  | \$0.00     |
| 20. Tier I Assessment (Use DHEC 3665 form)   |      | standard   |          |  | \$0.00     |
| 21. IGWA (Use DHEC 3666 form)                |      | standard   |          |  | \$0.00     |
| 22. Corrective Action (Use DHEC 3667 form)   |      | PFP Bid    |          |  | \$0.00     |

|  |     |           |             |  |             |
|--|-----|-----------|-------------|--|-------------|
| <b>23. Aggressive Fluid &amp; Vapor Recovery (AFVR)</b>                                |     |           |             |  |             |
| A1. 8-hour Event*  |     | each      | \$1,375.00  |  | \$0.00      |
| AA. 24-hour Event*   |     | each      | \$3,825.00  |  | \$0.00      |
| A3. 48-hour Event*   |     | each      | \$6,265.00  |  | \$0.00      |
| A4. 96-hour Event*   |     | each      | \$12,567.50 |  | \$0.00      |
| C1. Off-gas Treatment 8 hour   |     | per event | \$122.50    |  | \$0.00      |
| C2. Off-gas Treatment 24 hour  |     | per event | \$241.50    |  | \$0.00      |
| C3. Off-gas Treatment 48 hour  |     | per event | \$327.00    |  | \$0.00      |
| C4. Off-gas Treatment 96 hour  |     | per event | \$780.00    |  | \$0.00      |
| D. Site Reconnaissance   |     | each      | \$203.25    |  | \$0.00      |
| E1. Additional Hook-ups  |     | each      | \$25.75     |  | \$0.00      |
| F1. Effluent Disposal  |     | gallon    | \$0.44      |  | \$0.00      |
| G. AFVR Mobilization/Demobilization  |     | each      | \$391.50    |  | \$0.00      |
| <b>24. Granulated Activated Carbon (GAC) filter system installation &amp; service:</b> |     |           |             |  |             |
| A1. New GAC System Installation*   |     | each      | \$1,900.00  |  | \$0.00      |
| BB. Refurbished GAC Sys. Install*  |     | each      | \$900.00    |  | \$0.00      |
| C1. Filter replacement/removal*  |     | each      | \$350.00    |  | \$0.00      |
| DD. GAC System removal, cleaning, & refurbishment*                                     |     | each      | \$275.00    |  | \$0.00      |
| E1. GAC System housing*  |     | each      | \$250.00    |  | \$0.00      |
| F. In-line particulate filter  |     | each      | \$150.00    |  | \$0.00      |
| G1. Additional piping & fittings   |     | foot      | \$1.50      |  | \$0.00      |
| <b>25. Well Repair</b>   |     |           |             |  |             |
| A1. Additional Copies of the Report Delivered  |     | each      | \$50.00     |  | \$0.00      |
| B1. Repair 2x2 MW pad*   |     | each      | \$50.00     |  | \$0.00      |
| C1. Repair 4x4 MW pad*   |     | each      | \$88.00     |  | \$0.00      |
| D1. Repair well vault*   |     | each      | \$118.00    |  | \$0.00      |
| F1. Replace well cover bolts   |     | each      | \$2.60      |  | \$0.00      |
| G. Replace locking well cap & lock   |     | each      | \$15.00     |  | \$0.00      |
| H1. Replace/Repair stick-up*   |     | each      | \$134.00    |  | \$0.00      |
| II. Convert Flush-mount to Stick-up*   |     | each      | \$150.00    |  | \$0.00      |
| J1. Convert Stick-up to Flush-mount*   |     | each      | \$130.00    |  | \$0.00      |
| K1. Replace missing/illegible well ID plate  |     | each      | \$12.00     |  | \$0.00      |
| <b>Report Prep &amp; Project Management</b>  | 12% | percent   | \$9,873.20  |  | \$1,184.78  |
| <b>TOTAL</b>   |     |           |             |  | \$11,057.98 |

\*The appropriate mobilization cost can be added to complete these tasks, as necessary



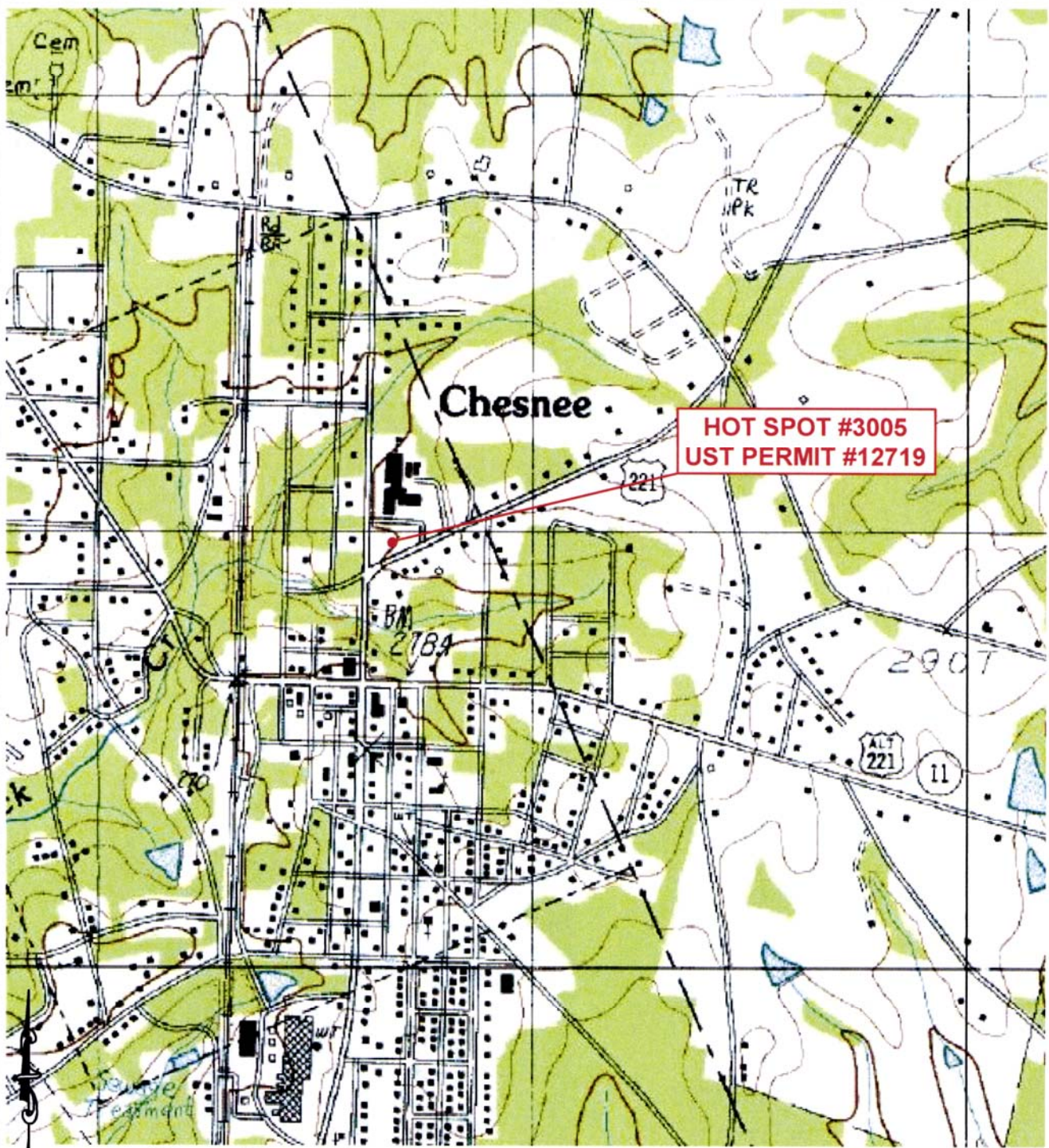


Image courtesy of the U.S. Geological Survey



**FIGURE 1  
TOPOGRAPHIC MAP**

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

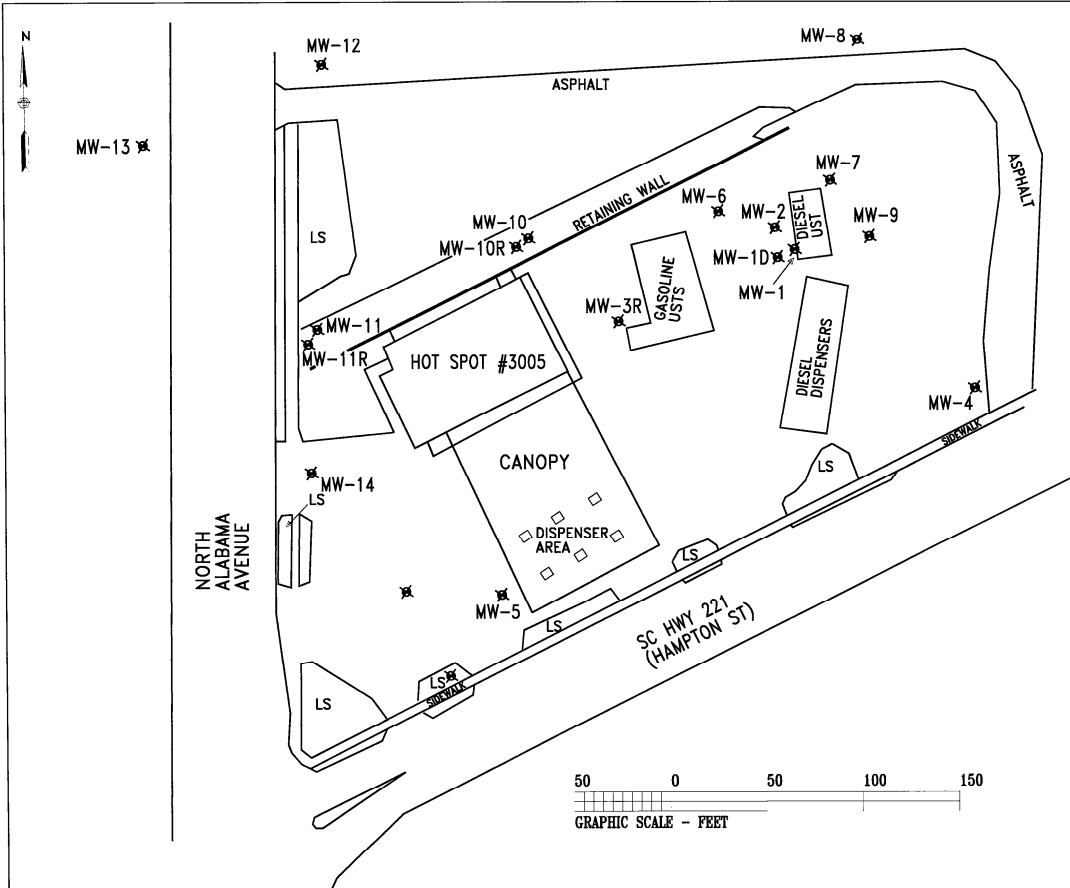
*providing our clients with the best services available,  
actually understanding our clients objectives,  
and making their objectives our own!*

PO Box 25  
Summerville, South Carolina 29484  
(800) 325-0605 (843)-873-8200 fax (843)-873-8765


|           |                              |                                     |     |
|-----------|------------------------------|-------------------------------------|-----|
| SIZE<br>B | TERRY Project No.<br>2230.8H | DWG NO.<br>Figure 1 Topographic Map | REV |
|-----------|------------------------------|-------------------------------------|-----|

SCALE: As Shown

DATE: June 2017



**LEGEND & ABBREVIATIONS:**  
 x MW = MONITORING WELL  
 LS = LANDSCAPING  
 ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (ie. 12719-MW1)  
 x = PROPOSED MONITORING WELL

|  |                  |
|--|------------------|
| <br><b>TERRY</b><br>ENVIRONMENTAL SERVICES<br><small>CLIENTS FIRST ALWAYS</small> |                  |
| <b>FIGURE 2</b><br><b>SITE BASE MAP</b>  |                  |
| HOT SPOT #3005<br>107 HAMPTON STREET<br>CHESNEE, SOUTH CAROLINA  |                  |
| TERRY PROJECT #  | SCDHEC SITE ID # |
| 2230.8H1   | 12/19            |
| SCALE 1" = 50'   | DATE June 2017   |



MS CYNDI SUTTLES  
R L JORDAN OIL COMPANY OF NORTH CAROLINA  
PO BOX 2527  
SPARTANBURG SC 29304-2527

JUL 06 2017

Re: **Monitoring Well Installation and Directive**  
Hot Spot 3005, 107 Hampton St, Chesnee, SC 29323  
UST Permit #12719; CA #54866; MWA #UMW-26655  
Release Reported August 04, 2003  
Site-Specific Work Plan and cost proposal received June 22, 2017  
Spartanburg County

Dear Ms. Suttles:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site-Specific Work Plan (SSWP) submitted by Terry Environmental Services, Inc. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), Terry Environmental Services's approved SSWP and Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/>

The assessment should begin immediately upon receipt of this letter. A monitoring well approval has been enclosed for the monitoring well installation. Cost agreement #54866 has been approved for the amount shown on the enclosed cost agreement form.

**The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.**

**The Assessment report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the Division within sixty (90) days of the date of this correspondence.** The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

Terry Environmental Services, Inc., can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Division for the cost to be paid. The Division reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Division reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by an DHEC-certified site rehabilitation contractor as required by R.61-98.

The Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the Chemical of Concern (CoC) concentrations based on laboratory analysis is below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on-site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference UST Permit #12719. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-0592, fax me at (803) 898-0673, or e-mail me at [patterkc@dhec.sc.gov](mailto:patterkc@dhec.sc.gov).

Sincerely,



Kyle Patterson, Hydrogeologist  
Assessment Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Approved Cost Agreement (ACA)  
Monitoring Well Approval (MWA)

cc: Terry Environmental Services, Inc., PO BOX 25, Summerville, SC 29484 (w/enc.)  
Technical file (with enc.)



## Monitoring Well Approval

**Approval is hereby granted to:** Terry Environmental Services, Inc.  
**(on behalf of):** R L Jordan Oil Company of North Carolina  
**Facility:** Hot Spot 3005, 107 Hampton St  
Chesnee, SC 29323  
**UST Permit Number:** 12719  
**County:** Spartanburg

This approval is for the installation of two shallow groundwater monitoring wells. The monitoring wells are to be installed in the approved locations. Monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

**Please note that R.61-71 requires the following:**

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the Division shall be completed and submitted to the Division within 30 days after well completion or abandonment unless another schedule has been approved by the Division. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Division within 30 days of receipt of laboratory results unless another schedule has been approved by the Division as required by R.61-71.H.1.d.
5. If any of the information provided to the Division changes, notification to Kyle Patterson the project manager (tel: (803) 898-0592 or e-mail: patterkc@scdhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
7. Division approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated May 27, 2016. A copy of this approval should be on the site during well installation.

**Date of Issuance: June 23, 2017**

**Approval #: UMW-26655**

Kyle Patterson, Hydrogeologist  
Assessment Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

**Approved Cost Agreement**

**54866**

Facility: 12719 HOT SPOT 3005

PATTERKC

PO Number:

| <u>Task / Description</u>         | <u>Categories</u> | <u>Item Description</u>           | <u>Qty / Pct</u> | <u>Unit Price</u>   | <u>Amount</u>    |
|-----------------------------------|-------------------|-----------------------------------|------------------|---------------------|------------------|
| 01 PLAN                           |                   | A1 SITE SPECIFIC WORK PLAN        | 1.0000           | \$150.000           | 150.00           |
| 04 MOB/DEMOB                      |                   | A1 EQUIPMENT                      | 1.0000           | \$1,020.000         | 1,020.00         |
|                                   |                   | B1 PERSONNEL                      | 3.0000           | \$423.000           | 1,269.00         |
| 09 WELL INSTALLATION              |                   | B1 WATER TABLE (DRILL RIG)        | 70.0000          | \$38.000            | 2,660.00         |
| 10 SAMPLE COLLECTION              |                   | A1 GROUNDWATER (PURGE)            | 17.0000          | \$60.000            | 1,020.00         |
|                                   |                   | D1 GROUNDWATER NO PURGE/DUPLICATE | 1.0000           | \$28.000            | 28.00            |
|                                   |                   | H1 FIELD BLANK                    | 1.0000           | \$24.600            | 24.60            |
| 11 ANALYSES                       | GW GROUNDWATER    | A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B | 20.0000          | \$122.000           | 2,440.00         |
|                                   |                   | F1 EDB BY 8011                    | 19.0000          | \$45.200            | 858.80           |
| 17 DISPOSAL                       |                   | AA WASTEWATER                     | 75.0000          | \$0.560             | 42.00            |
|                                   |                   | C1 SOIL TREATMENT DISPOSAL        | 1.3300           | \$60.000            | 79.80            |
|                                   |                   | D1 DRILLING FLUIDS                | 50.0000          | \$0.420             | 21.00            |
| 19 RPT/PROJECT MNGT & COORDINATIO |                   | PRT REPORT PREPARATION            | 0.1200           | \$9,613.200         | 1,153.58         |
|                                   |                   |                                   |                  | <b>Total Amount</b> | <b>10,766.78</b> |

**Document Receipt Information**

Hard Copy       CD       Email

**Date Received** 8-23-17

**Permit Number** 12719

**Project Manager** Kyle Patterson

**Name of Contractor** TES

**UST Certification Number** \_\_\_\_\_

**Docket Number** 90 Tech

**Scanned** \_\_\_\_\_

MW Installation  
GWM

**MONITORING WELL INSTALLATION  
AND GROUNDWATER MONITORING REPORT  
HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719  
CA #54866**

Prepared For:

**SCDHEC UNDERGROUND STORAGE TANK PROGRAM  
2600 BULL ST.  
COLUMBIA, SC 29201**

Submitted By:



P.O. BOX 25  
SUMMERVILLE, SOUTH CAROLINA 29484  
(843) 873-8200  
Fax (843) 873-8765  
[www.terryenvironmental.com](http://www.terryenvironmental.com)

UST CONTRACTOR #UCC-0223  
TERRY PROJECT #2230.8H



**Kelly K. Cone, PG**  
Vice President, Assessment Services



**Jason A. Terry, PG**  
President

**AUGUST 2017**





**TABLE OF CONTENTS**

| SECTION | DESCRIPTION   | PAGE |
|---------|---|------|
| A.      | INTRODUCTION  | 1    |
| 1.      | UST Facility and Owner/Operator Information               | 1    |
| 2.      | Property Owner Information                                | 1    |
| 3.      | Contractor Information                                    | 1    |
| 4.      | Well Driller Information                                  | 1    |
| 5.      | Laboratory Information                                    | 1    |
| 6.      | Site History  | 1    |
| 7.      | Regional Geology and Hydrogeology                         | 2    |
| B.      | RECEPTOR SURVEY & SITE DATA                               | 3    |
| 1.      | Receptor Survey Results                                   | 3    |
| 2.      | Current Site and Adjacent Land Use                        | 3    |
| 3.      | Site-Specific Geology and Hydrogeology                    | 3    |
| C.      | SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY | 4    |
| 1.      | Soil Type & Field Screening Results                       | 4    |
| 2.      | Soil Sampling Methodology                                 | 4    |
| 3.      | Field Screening Methodology                               | 4    |
| D.      | MONITORING WELL INFORMATION                               | 5    |
| 1.      | Well Installation Details                                 | 5    |
| 2.      | Well Development Procedures                               | 5    |
| 3.      | Well Location Justification                               | 5    |
| E.      | GROUNDWATER DATA  | 6    |
| 1.      | Groundwater Sampling Methodology                          | 6    |
| 2.      | Purging Methodology                                       | 7    |
|         | E-2 Groundwater Measurements (Purge Sampling)             | 7    |
| 3.      | Free Product Measurements                                 | 10   |
| F.      | AFVR INFORMATION  | 11   |
| G.      | GRANULATED ACTIVATED CARBON INSTALLATION                  | 11   |
| H.      | RESULTS & DISCUSSION                                      | 12   |
| 1.      | Assessment Results  | 12   |
| 2.      | Aquifer Evaluation Results                                | 12   |
| 3.      | Fate & Transport Results                                  | 12   |
| 4.      | Tier 1 Risk Evaluation                                    | 12   |
| 5.      | Tier 2 Risk Evaluation                                    | 12   |
| I.      | TABLES  | 13   |
| 1.      | Soil Analytical Data                                      | 13   |
| 2.      | Potentiometric Data                                       | 13   |
|         | Table 2 Groundwater Potentiometric Data                   | 13   |
| 3.      | Laboratory Data   | 13   |
|         | Table 3 Groundwater Laboratory Data                       | 13   |
| 4.      | Aquifer Characteristics                                   | 13   |
| 5.      | Site Conceptual Model                                     | 13   |

|     |  |    |
|-----|--|----|
| J.  | FIGURES  | 14 |
| 1.  | Topographic Map  | 14 |
|     | Figure 1 Topographic Map                                       | 14 |
| 2.  | Site Base Map  | 14 |
|     | Figure 2 Site Base Map   | 14 |
| 3.  | CoC Site Maps  | 14 |
|     | Figure 3 Soil CoC Map  | 14 |
|     | Figure 4A Groundwater CoC Map                                  | 14 |
|     | Figure 4B Groundwater CoC Map (Oxygenates)                     | 14 |
| 4.  | Site Potentiometric Maps                                       | 14 |
|     | Figure 5 Site Potentiometric Map                               | 14 |
| 5.  | Geologic Cross-Sections  | 14 |
| 6.  | Predicted Migration and Attenuation of CoCs                    | 14 |
| K.  | Appendices   | 15 |
| 1.  | Appendix A: Site Survey  | 15 |
| 2.  | Appendix B: Sampling Logs and Laboratory Data                  | 15 |
| 3.  | Appendix C: Tax Map  | 15 |
| 4.  | Appendix D: Soil Boring/Field Screening Logs/SCDHEC 1903 Forms | 15 |
| 5.  | Appendix E: Well Completion Logs/SCDHEC 1903 Forms             | 15 |
| 6.  | Appendix F: Aquifer Evaluation Forms                           | 15 |
| 7.  | Appendix G: Disposal Manifests                                 | 15 |
| 8.  | Appendix H: Local Zoning Regulations                           | 15 |
| 9.  | Appendix I: Fate and Transport Modeling Data                   | 15 |
| 10. | Appendix J: Access Agreement                                   | 15 |
| 11. | Appendix K: Data Verification Checklist                        | 15 |

**SCDHEC UST PERMIT #12719**
**A. INTRODUCTION**
**1. UST Facility and Owner/Operator Information**

Facility Name (Permit #): Hot Spot #3005 (12719)  
 Facility Address: 107 Hampton Street, Chesnee, South Carolina 29323  
 Facility Telephone: 864-461-4147  
 Owner/ Operator Name: RL Jordan Oil Co. of NC (Contact: Ms. Cyndi Suttles)  
 Owner/ Operator Address: PO Box 2527, Spartanburg, SC 29304  
 Owner/ Operator Telephone: 864-585-2784

**2. Property Owner Information**

Name: EJ Enterprises Inc.  
 Address: PO Box 2527, Spartanburg, SC 29304  
 Telephone: 864-585-2784

**3. Contractor Information**

Name: Terry Environmental Services, Inc.  
 Address: P.O. Box 25, Summerville, South Carolina 29484  
 Telephone: 843-873-8200  
 Certification: UCC-0223

**4. Well Driller Information**

Name: Terry Exploration Services, LLC  
 Address: 222 Varnfield Drive, Suite F, Summerville, South Carolina 29483  
 Telephone: 843-873-8200  
 Certification: John S. Kerr (2128-B)

**5. Laboratory Information**

Name: Shealy Environmental Services Inc. (Shealy)  
 Address: 106 Vantage Point Drive, Columbia, SC 29172  
 Telephone: 803-791-9700  
 Certification: 32010

**6. Site History**

Date Release Reported to SCDHEC: August 4, 2003  
 Estimated Quantity of Product Released: Unknown  
 Cause of Release: Unknown  
 Current use of Facility: Gas Station and Convenience Store (Hot Spot)

| UST #          | Product           | Date Installed | Currently In Use<br>(Yes or No) | If not in use, Date<br>Removed |
|----------------|-------------------|----------------|---------------------------------|--------------------------------|
| 1 (12,000 gal) | Unleaded Gasoline | 8/6/1990       | Yes                             | -                              |
| 2 (8,000 gal)  | Plus Gasoline     | 8/6/1990       | Yes                             | -                              |
| 3 (8,000 gal)  | Premium Gasoline  | 8/6/1990       | Yes                             | -                              |
| 4 (8,000 gal)  | Diesel            | 8/6/1990       | Yes                             | -                              |
| 5 (8,000 gal)  | Kerosene          | 8/6/1990       | Yes                             | -                              |
| 6(12,000 gal)  | Diesel            | 10/3/1991      | Yes                             | -                              |

**SCDHEC UST PERMIT #12719**

Other Releases at this site?      Yes XXXX      No \_\_\_\_\_  
If yes, Date Release Reported to SCDHEC      November 3, 1993  
**Status of Release:**      Feb. 2002 Brook & Medlock selected as CA contractor.  
No Further Action Date:      N/A

**7. Regional Geology and Hydrogeology**

The Hot Spot #3005 site is located in Chesnee which lies in the Western Piedmont Province of South Carolina. The western piedmont is comprised of the Inner Piedmont block, the Smith River allochthon, and the Sauratwon Mountain window. The Inner Piedmont block encompasses the Inner Piedmont belt and the Chauga belt, and consists of a composite stack of thrust sheets containing a variety of gneisses, schists, amphibolites, sparse ultramafic bodies, and intrusive granitoids. (The Geology of the Carolinas, Horton & Zullo, 1991)

The Hot Spot #3005 site is located in the Inner Piedmont Belt which is characterized by granitic, biotitic, and hornblendic rocks. Generally, wells drilled in the Inner Piedmont Belt of Spartanburg County yield 1 to 250 gallons per minute (gpm). The highest average yields (35 gpm) were obtained from wells drilled in biotite gneiss and migmatite with the lowest average yields from wells drilled in quartz monzonite. The average yield of all wells inventoried was 20 gpm. The ground waters in Spartanburg County are of good to excellent quality for most domestic, municipal, and industrial uses. (USGS/SCWRC Report 3: Water Resources of Spartanburg County, South Carolina, 1970)

## **B. RECEPTOR SURVEY & SITE DATA**

### **1. Receptor Survey Results**

A receptor survey was not conducted during this scope of work.

### **2. Current Site and Adjacent Land Use**

Description of current site use (commercial, residential, rural, etc.):

Commercial; the site is operating as Hot Spot #3005, a gas station and convenience store.

---

Description of adjacent land use (commercial, residential, rural, etc.):

Commercial and residential.

---

UST sites within a 1,000-foot radius:

10122 Free Time Convenience Store

---

The site is located at 107 Hampton Street, Chesnee, South Carolina. The site is bordered to the north by a school, to the east by a vacant field, and to the south and west by commercial and residential properties. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map based on the previous contractor's site survey is provided in Section J as Figure 2.

### **3. Site-Specific Geology and Hydrogeology**

Site-specific stratigraphy generally consists of silty clay underlain by clayey silt. The Site Potentiometric Map (Figure 5, Section J) from the comprehensive groundwater sampling event indicates that shallow groundwater flow is generally to the west.

## **C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY**

### **1. Soil Type & Field Screening Results**

Based on the newly installed monitoring wells MW-15 and MW-16, the soil generally consists of silty clay underlain by clayey silt. Soil contamination was not assessed during this scope of work.

### **2. Soil Sampling Methodology**

Not Applicable. No soil samples were collected during this scope of work.

### **3. Field Screening Methodology**

Not Applicable. No soil samples were collected during this scope of work.

## **D. MONITORING WELL INFORMATION**

### **1. Well Installation Details**

Two monitoring well locations were requested by the SCDHEC UST Project Manager in June 2017. On June 17 and June 18, 2017 two (2) shallow monitoring wells (MW-15 and MW-16) were installed in the location specified by the SCDHEC Project Manager and developed by Terry Exploration LLC. The wells were installed using hollow stem auger (HSA) techniques. All well installations were performed in accordance with the S.C. Well Standards and Regulations. Well Construction Logs are provided in Appendix E. The soil cuttings and decontamination water were initially stored in 55-gallon drums onsite and were properly disposed of by JBR Environmental Services on August 17, 2017. The disposal manifest is provided in Appendix G.

### **2. Well Development Procedures**

On June 17 and June 18, 2017 TERRY personnel developed the newly installed monitoring wells. Development took place after the filter packs had been placed and the water table allowed to equilibrate but before bentonite or grout was added as a sealant. A surge block and a clean purge pump with new, disposable tubing was utilized for developing the wells. In accordance with the SCDHEC UST QAPP, Revision 3.1, development is complete once pH, specific conductance, and temperature of the groundwater have stabilized, and turbidity has either stabilized or is below 10 nephelometric turbidity units (NTUs). The Well Development Logs and the calibration data are provided in Appendix E. The well development water generated was picked up along with the soil cuttings by JBR Environmental Services on August 17, 2017 and the disposal manifest is provided in Appendix G.

### **3. Well Location Justification**

The shallow monitoring well (MW-15 and MW-16) locations were specified by the SCDHEC Project Manager and were installed to further horizontally delineate the contaminant plume. The new wells will also provide future access for monitoring the plume migration.

## **E. GROUNDWATER DATA**

### **1. Groundwater Sampling Methodology**

TERRY sampled the site on July 24 and July 25, 2017. Just prior to the sampling event, all monitoring wells were gauged with an oil/water interface probe to determine depth to groundwater measurements and the presence or absence of free-phase petroleum. Water level was recorded to the nearest 0.01 foot and total well depth was recorded to the nearest 0.1 foot. Monitoring well MW-8 could not be located.

Sampling was conducted from the least contaminated wells to the most contaminated wells based on the previous assessment data. A clean purge pump with new disposable tubing was utilized for purging the deep wells with large casing volumes and/or adequate recharge rates. Groundwater samples were collected from each monitoring well with a new disposable bailer. Bailers with new colorless nylon rope were slowly lowered into the top of the water column, allowed to fill, and slowly removed to minimize turbidity and disturbance of the volatile organic compounds (VOCs).

Trip blanks, field blanks, and field duplicates were prepared or collected in accordance with the SCDHEC UST QAPP, Revision 3.1. One trip blank was shipped with each cooler and analyzed for VOCs. One field blank was collected for the sampling event and analyzed for VOCs and 1,2-Dibromoethane (EDB). One field duplicate was collected for each batch of twenty samples and analyzed for VOCs and EDB.

Samples were immediately packed in a cooler of ice and proper temperatures were maintained in accordance with the SCDHEC UST QAPP, Revision 3.1. At the completion of the sampling event, the samples were submitted to a SCDHEC certified laboratory for analyses. The samples were analyzed for Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, Methyl tertiary butyl ether, 1,2-Dichloroethane, Oxygenates, Ethanol, and EDB.

Field conditions were documented throughout the sampling event. All field measurement equipment was properly cleaned and decontaminated before use, between each well, and prior to site departure in accordance with "Appendix H: Standard Field Cleaning Procedures" of the SCDHEC UST QAPP, Revision 3.1. By-products were initially stored onsite in a 55-gallon drums. The water generated was transported to US Water Recovery for disposal and the disposal manifest is provided in Appendix G. The field measurement equipment was properly calibrated prior to the sampling event and verified after four (4) hours of use and at the completion of the event. The calibration data for the sampling event is provided in Appendix B.

Depth to groundwater measurements were taken with reference to the top of well casing (TOC) and converted to elevations by subtracting the depth to groundwater measurements from the TOC elevations. Potentiometric data are provided in Section I as Table 2 and on the Groundwater Sampling Logs provided in Appendix B.



**2. Purging Methodology**

Purging was conducted from the least contaminated wells to the most contaminated wells based on the previous assessment data. Prior to purging, new plastic sheeting was placed on the ground surface around the well to prevent contamination of pumps, hoses, meters, etc. For monitoring wells with smaller casing volumes and/or slow recharge rates, a new disposable bailer was utilized for purging. When utilized, bailers with new colorless nylon rope were slowly lowered into the top of the water column, allowed to fill, and slowly removed to minimize turbidity and disturbance of the VOCs. When utilized, the purge pump was lowered approximately 3-5 feet into the standing water column and adjusted only if the pumping rate exceeded the recovery rate as drawdown occurred. In accordance with the SCDHEC UST QAPP, Revision 3.1, an adequate purge was achieved when pH, specific conductance, and temperature of the groundwater stabilized, and turbidity either stabilized or was below 10 nephelometric turbidity units (NTUs). The purge water generated was initially stored onsite in 55-gallon drums. The water generated was transported to US Water Recovery for disposal and the disposal manifest is provided in Appendix G.

If a well was pumped or purged dry, even with reduced purge rates, the well was considered adequately purged per the SCDHEC UST QAPP, Revision 3.1. The sample was collected immediately following sufficient recovery to fill all sampling containers. The groundwater measurements collected during the sampling event for the purged wells are provided as follows:

| SECTION E -2<br>GROUNDWATER MEASUREMENTS (PURGE SAMPLING)<br>HOT SPOT #3005<br>CHESNEE, SOUTH CAROLINA<br>SCDHEC UST PERMIT #12719 |                        |       |       |             |                 |
|--|------------------------|-------|-------|-------------|-----------------|
| <b>12719-MW1</b>   | <b>7/25/2017</b>       |       |       |             |                 |
|  | Free Product (0.11 ft) |       |       |             |                 |
| <b>12719-MW2</b>   | <b>7/25/2017</b>       |       |       |             |                 |
| Volume (gal)   | Initial                | 1.75  | 3.5   | 5.25/Sample | Duplicate (DUP) |
| Time (military)  | 1218                   | 1221  | 1224  | 1227        | 1229            |
| pH (su)  | 6.07                   | 5.39  | 5.38  | 5.35        |                 |
| Spec Conductivity (mS/cm)  | 0.152                  | 0.134 | 0.133 | 0.138       |                 |
| Water Temperature (°C)   | 28.1                   | 27.5  | 27.5  | 27.5        |                 |
| Turbidity (NTU)  | 60.7                   | 53.5  | 55.6  | 52.8        |                 |
| Dissolved Oxygen (mg/L)  | 8.03                   | 7.69  | 7.69  | 7.67        |                 |

| <b>12719-MW3R</b>         |          | <b>7/25/2017</b> |       |             |  |  |
|---------------------------|----------|------------------|-------|-------------|--|--|
| Volume (gal)              | Intitial | 1.25             | 2.50  | 3.75/Sample |  |  |
| Time (military)           | 1305     | 1308             | 1311  | 1314        |  |  |
| pH (su)                   | 5.93     | 5.63             | 5.66  | 5.61        |  |  |
| Spec Conductivity (mS/cm) | 0.402    | 0.302            | 0.301 | 0.303       |  |  |
| Water Temperature (°C)    | 26.2     | 25.0             | 25.0  | 25.0        |  |  |
| Turbidity (NTU)           | 10.3     | 116              | 117   | 114         |  |  |
| Dissolved Oxygen (mg/L)   | 10.41    | 9.22             | 9.21  | 9.06        |  |  |
| <b>12719-MW4</b>          |          | <b>7/25/2017</b> |       |             |  |  |
| Volume (gal)              | Intitial | 3.5              | 7.0   | 10.5/Sample |  |  |
| Time (military)           | 0845     | 0848             | 0851  | 0854        |  |  |
| pH (su)                   | 8.03     | 7.82             | 7.80  | 7.79        |  |  |
| Spec Conductivity (mS/cm) | 0.160    | 0.171            | 0.171 | 0.170       |  |  |
| Water Temperature (°C)    | 26.7     | 24.7             | 24.7  | 24.7        |  |  |
| Turbidity (NTU)           | 0.3      | 41.1             | 40.3  | 39.2        |  |  |
| Dissolved Oxygen (mg/L)   | 4.06     | 3.62             | 3.59  | 3.57        |  |  |
| <b>12719-MW5</b>          |          | <b>7/25/2017</b> |       |             |  |  |
| Volume (gal)              | Initial  | 0.25             | 0.50  | 0.75/Sample |  |  |
| Time (military)           | 1138     | 1141             | 1144  | 1147        |  |  |
| pH (su)                   | 5.55     | 5.52             | 5.51  | 5.49        |  |  |
| Spec Conductivity (mS/cm) | 0.099    | 0.096            | 0.095 | 0.094       |  |  |
| Water Temperature (°C)    | 26.9     | 26.8             | 26.8  | 26.8        |  |  |
| Turbidity (NTU)           | 14.2     | 88.2             | 86.7  | 85.6        |  |  |
| Dissolved Oxygen (mg/L)   | 2.04     | 1.78             | 1.76  | 1.74        |  |  |
| <b>12719-MW6</b>          |          | <b>7/25/2017</b> |       |             |  |  |
| Volume (gal)              | Intitial | 1.75             | 3.50  | 5.25/Sample |  |  |
| Time (military)           | 1158     | 1201             | 1204  | 1207        |  |  |
| pH (su)                   | 5.08     | 4.93             | 4.92  | 4.90        |  |  |
| Spec Conductivity (mS/cm) | 0.181    | 0.179            | 0.179 | 0.178       |  |  |
| Water Temperature (°C)    | 26.9     | 26.4             | 26.4  | 26.4        |  |  |
| Turbidity (NTU)           | 101      | 271              | 270   | 274         |  |  |
| Dissolved Oxygen (mg/L)   | 2.03     | 1.59             | 1.58  | 1.54        |  |  |
| <b>12719-MW7</b>          |          | <b>7/25/2017</b> |       |             |  |  |
| Volume (gal)              | Intitial | 1.75             | 3.50  | 5.25/Sample |  |  |
| Time (military)           | 0945     | 0948             | 0951  | 0954        |  |  |
| pH (su)                   | 4.90     | 4.83             | 4.82  | 4.86        |  |  |
| Spec Conductivity (mS/cm) | 0.048    | 0.044            | 0.049 | 0.050       |  |  |
| Water Temperature (°C)    | 24.7     | 23.9             | 23.9  | 23.9        |  |  |
| Turbidity (NTU)           | 11.2     | 37.2             | 37.1  | 36.0        |  |  |
| Dissolved Oxygen (mg/L)   | 4.25     | 4.17             | 4.17  | 4.16        |  |  |
| <b>12719-MW8</b>          |          | <b>7/25/2017</b> |       |             |  |  |
| Could Not Find            |          |                  |       |             |  |  |

| <b>12719-MW9</b>          |          | <b>7/25/2017</b> |       |             |  |  |
|---------------------------|----------|------------------|-------|-------------|--|--|
| Volume (gal)              | Intitial | 1.75             | 3.50  | 5.25/Sample |  |  |
| Time (military)           | 0915     | 0918             | 0921  | 0924        |  |  |
| pH (su)                   | 6.70     | 5.44             | 5.45  | 5.42        |  |  |
| Spec Conductivity (mS/cm) | 0.050    | 0.041            | 0.039 | 0.039       |  |  |
| Water Temperature (°C)    | 23.5     | 23.3             | 23.3  | 23.3        |  |  |
| Turbidity (NTU)           | 64.5     | 107              | 105   | 104         |  |  |
| Dissolved Oxygen (mg/L)   | 4.24     | 5.27             | 5.23  | 5.27        |  |  |
| <b>12719-MW10R</b>        |          | <b>7/24/2017</b> |       |             |  |  |
| Volume (gal)              | Intitial | 1.75             | 3.5   | 5.25/Sample |  |  |
| Time (military)           | 1445     | 1448             | 1451  | 1454        |  |  |
| pH (su)                   | 4.45     | 4.45             | 4.41  | 4.38        |  |  |
| Spec Conductivity (mS/cm) | 0.058    | 0.055            | 0.053 | 0.052       |  |  |
| Water Temperature (°C)    | 24.4     | 24.3             | 24.3  | 24.3        |  |  |
| Turbidity (NTU)           | 10.3     | 106              | 101   | 97.4        |  |  |
| Dissolved Oxygen (mg/L)   | 2.56     | 2.38             | 2.34  | 2.30        |  |  |
| <b>12719-MW11R</b>        |          | <b>7/24/2017</b> |       |             |  |  |
| Volume (gal)              | Intitial | 1.75             | 3.50  | 5.25/Sample |  |  |
| Time (military)           | 1430     | 1433             | 1436  | 1439        |  |  |
| pH (su)                   | 4.77     | 4.58             | 4.58  | 4.54        |  |  |
| Spec Conductivity (mS/cm) | 0.036    | 0.037            | 0.037 | 0.038       |  |  |
| Water Temperature (°C)    | 25.3     | 23.2             | 23.2  | 23.2        |  |  |
| Turbidity (NTU)           | 37.6     | 166              | 162   | 159         |  |  |
| Dissolved Oxygen (mg/L)   | 3.63     | 5.04             | 5.01  | 5.00        |  |  |
| <b>12719-MW12</b>         |          | <b>7/24/2017</b> |       |             |  |  |
| Volume (gal)              | Intitial | 1.5              | 3.0   | 4.5/Sample  |  |  |
| Time (military)           | 1525     | 1528             | 1531  | 1535        |  |  |
| pH (su)                   | 5.03     | 4.97             | 4.97  | 4.96        |  |  |
| Spec Conductivity (mS/cm) | 0.080    | 0.081            | 0.081 | 0.081       |  |  |
| Water Temperature (°C)    | 26.2     | 25.6             | 25.6  | 25.6        |  |  |
| Turbidity (NTU)           | 5.2      | 48.7             | 48.1  | 48.3        |  |  |
| Dissolved Oxygen (mg/L)   | 6.09     | 5.93             | 5.90  | 5.89        |  |  |
| <b>12719-MW13</b>         |          | <b>7/24/2017</b> |       |             |  |  |
| Volume (gal)              | Intitial | 1.0              | 2.0   | 3.0/Sample  |  |  |
| Time (military)           | 1505     | 1508             | 1511  | 1514        |  |  |
| pH (su)                   | 4.48     | 4.45             | 4.41  | 4.40        |  |  |
| Spec Conductivity (mS/cm) | 0.089    | 0.089            | 0.089 | 0.090       |  |  |
| Water Temperature (°C)    | 25.1     | 24.3             | 24.3  | 24.3        |  |  |
| Turbidity (NTU)           | 13.4     | 66.7             | 65.2  | 61.7        |  |  |
| Dissolved Oxygen (mg/L)   | 6.83     | 5.56             | 5.59  | 5.52        |  |  |

| 12719-MW14                |          | 7/25/2017 |        |       |        |  |
|---------------------------|----------|-----------|--------|-------|--------|--|
| Volume (gal)              | Intitial | 1.0       | 2.0    | 3.0   | Sample |  |
| Time (military)           | 1115     | 1118      | 1121   | 1123  |        |  |
| pH (su)                   | 5.93     | 5.89      | 5.89   | 5.88  |        |  |
| Spec Conductivity (mS/cm) | 0.138    | 0.137     | 0.137  | 0.136 |        |  |
| Water Temperature (°C)    | 29.1     | 28.8      | 28.8   | 28.8  |        |  |
| Turbidity (NTU)           | 6.7      | 13.8      | 15.8   | 13.2  |        |  |
| Dissolved Oxygen (mg/L)   | 6.83     | 5.65      | 5.63   | 5.59  |        |  |
| 12719-MW15                |          | 7/25/2017 |        |       |        |  |
| Volume (gal)              | Intitial | 1.25      | 2.50   | 3.75  | Sample |  |
| Time (military)           | 1012     | 1015      | 1018   | 1021  |        |  |
| pH (su)                   | 5.55     | 5.49      | 5.48   | 5.49  |        |  |
| Spec Conductivity (mS/cm) | 0.068    | 0.067     | 0.063  | 0.062 |        |  |
| Water Temperature (°C)    | 25.7     | 25.1      | 25.1   | 25.1  |        |  |
| Turbidity (NTU)           | 13.2     | 198       | 192    | 197   |        |  |
| Dissolved Oxygen (mg/L)   | 7.71     | 7.76      | 7.72   | 7.69  |        |  |
| 12719-MW16                |          | 7/25/2017 |        |       |        |  |
| Volume (gal)              | Intitial | 1.25      | 2.50   | 3.75  | Sample |  |
| Time (military)           | 1044     | 1047      | 1050   | 1053  |        |  |
| pH (su)                   | 5.34     | 5.65      | 5.66   | 5.66  |        |  |
| Spec Conductivity (mS/cm) | 0.158    | 0.167     | 0.169  | 0.169 |        |  |
| Water Temperature (°C)    | 24.6     | 24.6      | 24.6   | 24.6  |        |  |
| Turbidity (NTU)           | 147      | 207       | 212    | 205   |        |  |
| Dissolved Oxygen (mg/L)   | 5.05     | 2.18      | 2.17   | 2.16  |        |  |
| 12719-MW1D                |          | 7/25/2017 |        |       |        |  |
| Volume (gal)              | Intitial | 2.75      | 5.50   | 8.25  | 11.00  |  |
| Time (military)           | 1238     | 1241      | 1244   | 1247  | 1250   |  |
| pH (su)                   | 5.27     | 5.22      | 5.25   | 5.14  | 5.08   |  |
| Spec Conductivity (mS/cm) | 0.072    | 0.069     | 0.066  | 0.067 | 0.059  |  |
| Water Temperature (°C)    | 25.6     | 25.1      | 25.2   | 24.3  | 22.9   |  |
| Turbidity (NTU)           | 0.2      | 142       | 103    | 85.5  | 79.2   |  |
| Dissolved Oxygen (mg/L)   | 10.11    | 8.91      | 7.16   | 7.14  | 5.17   |  |
| Volume (gal)              | 13.75    | 16.50     | Sample |       |        |  |
| Time (military)           | 1253     | 1256      |        |       |        |  |
| pH (su)                   | 5.09     | 5.01      |        |       |        |  |
| Spec Conductivity (mS/cm) | 0.057    | 0.057     |        |       |        |  |
| Water Temperature (°C)    | 22.9     | 22.9      |        |       |        |  |
| Turbidity (NTU)           | 76.5     | 76.4      |        |       |        |  |
| Dissolved Oxygen (mg/L)   | 5.15     | 5.11      |        |       |        |  |

**NOTES/KEY:**

gal = gallons

su = standard unit

mS/cm = milliSiemens per centimeter

NTU = nephelometric turbidity units

mg/L = milligrams per liter

### 3. Free Product Measurements

Free-phase petroleum was measured in MW-1 (0.11 feet) on July 25, 2017. Therefore MW-1 was not sampled.

**F. AFVR INFORMATION**

Not Applicable. No Aggressive Fluid Vapor Recovery (AFVR) Events were performed during this scope of work.

**G. GRANULATED ACTIVATED CARBON INSTALLATION**

Not Applicable. No granulated activated carbon units were installed during this scope of work.

## **H. RESULTS & DISCUSSION**

### **1. Assessment Results**

During this scope of work, TERRY installed two new shallow monitoring wells and conducted a comprehensive groundwater sampling event on in accordance with the SCDHEC UST QAPP, Revision 3.1 and the associated site-specific work plan submitted in June 2017.

The groundwater analytical data are summarized in Section I as Table 3, and are included in Appendix B. The analytical data were used to generate contaminant concentration maps for CoC's detected by the laboratory and are provided in Section J as Figures 4A and 4B. Based on the analytical data from the comprehensive sampling event, shallow groundwater contamination is observed onsite in the vicinity of the diesel UST basin (MW-1 and MW-2), the gasoline UST basin (MW-3R), and the dispenser area (MW-5 and MW-16). The plume remains horizontally undefined down gradient to the west-southwest (MW-16). The plume remains vertically defined in the source area.

TERRY recommends conducting a 96-hour AFVR Event on monitoring well MW-1.

### **2. Aquifer Evaluation Results**

Not Applicable

### **3. Fate & Transport Results**

Not Applicable

### **4. Tier 1 Risk Evaluation**

Not Applicable

### **5. Tier 2 Risk Evaluation**

Not Applicable

**I. TABLES**

**1. Soil Analytical Data**

Table 1 Soil Analytical Data - Not Applicable

**2. Potentiometric Data**

Table 2 Groundwater Potentiometric Data - Attached

**3. Laboratory Data**

Table 3 Groundwater Laboratory Data - Attached

**4. Aquifer Characteristics**

Table 4 Aquifer Characteristics - Not Applicable

**5. Site Conceptual Model**

Table 5 Site Conceptual Model - Not Applicable

**TABLE 2  
GROUNDWATER POTENTIOMETRIC DATA  
HOT SPOT # 3005  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719**

| Well #     | DATE       | TOC Elevation | Screened Interval | Depth to Product** (ft)   | Depth to Water** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |
|------------|------------|---------------|-------------------|---------------------------|-----------------------|------------------------|----------------------------|
| 12719-MW1  | 8/18/2005  | 104.89        | 20'-30'           | --                        | 23.69                 | --                     | 81.20                      |
|            | 10/2/2008  | 104.89        | 20'-30'           | --                        | 29.77                 | --                     | 75.12                      |
|            | 10/31/2011 | 104.89        | 20'-30'           | --                        | 29.20                 | --                     | 75.69                      |
|            | 12/30/2014 | 104.89        | 20'-30'           | 25.87                     | 26.00                 | 0.13                   | 78.89                      |
|            | 7/25/2017  | 104.89        | 20'-30'           | 26.35                     | 26.46                 | 0.11                   | 78.43                      |
| 12719-MW2  | 8/18/2005  | Unknown       | 26'-36'           | --                        | 23.69                 | --                     | --                         |
|            | 10/2/2008  | Unknown       | 26'-36'           | --                        | 29.61                 | --                     | --                         |
|            | 10/31/2011 | Unknown       | 26'-36'           | --                        | 29.03                 | --                     | --                         |
|            | 12/30/2014 | Unknown       | 26'-36'           | --                        | 25.41                 | --                     | --                         |
|            | 7/25/2017  | Unknown       | 26'-36'           | --                        | 26.16                 | --                     | --                         |
| 12719-MW3R | 8/18/2005  | 104.92        | 26'-36'           | --                        | 27.15                 | --                     | 77.77                      |
|            | 10/2/2008  | 104.92        | 26'-36'           | --                        | 32.40                 | --                     | 72.52                      |
|            | 10/31/2011 | 104.92        | 26'-36'           | --                        | 32.12                 | --                     | 72.80                      |
|            | 12/30/2014 | 104.92        | 26'-36'           | --                        | 28.56                 | --                     | 76.36                      |
|            | 7/25/2017  | 104.92        | 26'-36'           | --                        | 29.01                 | --                     | 75.91                      |
| 12719-MW4  | 8/18/2005  | 111.32        | 36'-46'           | --                        | 23.25                 | --                     | 88.07                      |
|            | 10/2/2008  | 111.32        | 36'-46'           | --                        | 29.57                 | --                     | 81.75                      |
|            | 10/31/2011 | 111.32        | 36'-46'           | Not sampled               |                       |                        |                            |
|            | 12/30/2014 | 111.32        | 36'-46'           | --                        | 23.95                 | --                     | 87.37                      |
|            | 7/25/2017  | 111.32        | 36'-46'           | --                        | 25.78                 | --                     | 85.54                      |
| 12719-MW5  | 8/18/2005  | 103.57        | 22'-32'           | --                        | 29.03                 | --                     | 74.54                      |
|            | 10/2/2008  | 103.57        | 22'-32'           | --                        | 31.94                 | --                     | 71.63                      |
|            | 10/31/2011 | 103.57        | 22'-32'           | --                        | 31.80                 | --                     | 71.77                      |
|            | 12/30/2014 | 103.57        | 22'-32'           | --                        | 30.02                 | --                     | 73.55                      |
|            | 7/25/2017  | 103.57        | 22'-32'           | --                        | 30.51                 | --                     | 73.06                      |
| 12719-MW6  | 8/18/2005  | 104.14        | 26'-36'           | --                        | 24.22                 | --                     | 79.92                      |
|            | 10/2/2008  | 104.14        | 26'-36'           | --                        | 29.89                 | --                     | 74.25                      |
|            | 10/31/2011 | 104.14        | 26'-36'           | --                        | 30.57                 | --                     | 73.57                      |
|            | 12/30/2014 | 104.14        | 26'-36'           | --                        | 25.92                 | --                     | 78.22                      |
|            | 7/25/2017  | 104.14        | 26'-36'           | --                        | 26.40                 | --                     | 77.74                      |
| 12719-MW7  | 8/18/2005  | 104.52        | 26'-36'           | --                        | 22.74                 | --                     | 81.78                      |
|            | 10/2/2008  | 104.52        | 26'-36'           | --                        | 28.90                 | --                     | 75.62                      |
|            | 10/31/2011 | 104.52        | 26'-36'           | Not sampled               |                       |                        |                            |
|            | 12/30/2014 | 104.52        | 26'-36'           | --                        | 23.89                 | --                     | 80.63                      |
|            | 7/25/2017  | 104.52        | 26'-36'           | --                        | 25.31                 | --                     | 79.21                      |
| 12719-MW8  | 8/18/2005  | 101.79        | Unknown           | --                        | 18.05                 | --                     | 83.74                      |
|            | 10/2/2008  | 101.79        | Unknown           | Well could not be located |                       |                        |                            |
|            | 10/31/2011 | 101.79        | Unknown           | Not sampled               |                       |                        |                            |
|            | 12/30/2014 | 101.79        | Unknown           | --                        | 21.53                 | --                     | 80.26                      |
|            | 7/25/2017  | 101.79        | Unknown           | Could Not Find            |                       |                        |                            |
| 12719-MW9  | 8/18/2005  | 105.43        | Unknown           | --                        | 22.95                 | --                     | 82.48                      |
|            | 10/2/2008  | 105.43        | Unknown           | --                        | 29.38                 | --                     | 76.05                      |
|            | 10/31/2011 | 105.43        | Unknown           | Not sampled               |                       |                        |                            |
|            | 12/30/2014 | 105.43        | Unknown           | --                        | 24.02                 | --                     | 81.41                      |
|            | 7/25/2017  | 105.43        | Unknown           | --                        | 25.22                 | --                     | 80.21                      |



**TABLE 2  
GROUNDWATER POTENTIOMETRIC DATA  
HOT SPOT # 3005  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719**

| Well #      | DATE       | TOC Elevation | Screened Interval | Depth to Product** (ft)   | Depth to Water** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |
|-------------|------------|---------------|-------------------|---------------------------|-----------------------|------------------------|----------------------------|
| 12719-MW10  | 8/18/2005  | 96.57         | 17'-27'           | --                        | --                    | --                     | --                         |
|             | 10/31/2011 | 96.57         | 17'-27'           | Not sampled               |                       |                        |                            |
|             | 12/30/2014 | 96.57         | 17'-27'           | Not sampled               |                       |                        |                            |
| 12719-MW10R | 8/18/2005  | Unknown       | 22'-32'           | --                        | 19.67                 | --                     | --                         |
|             | 10/2/2008  | Unknown       | 22'-32'           | --                        | 24.50                 | --                     | --                         |
|             | 10/31/2011 | Unknown       | 22'-32'           | --                        | 24.39                 | --                     | --                         |
|             | 12/30/2014 | Unknown       | 22'-32'           | --                        | 21.13                 | --                     | --                         |
|             | 7/24/2017  | Unknown       | 22'-32'           | --                        | 21.35                 | --                     | --                         |
| 12719-MW11  | 8/18/2005  | 95.15         | 18'-28'           | --                        | --                    | --                     | --                         |
|             | 10/2/2008  | 95.15         | 18'-28'           | --                        | 24.85                 | --                     | 70.30                      |
|             | 10/31/2011 | 95.15         | 18'-28'           | Not sampled               |                       |                        |                            |
|             | 12/30/2014 | 95.15         | 18'-28'           | Not sampled               |                       |                        |                            |
| 12719-MW11R | 8/18/2005  | Unknown       | 22'-32'           | --                        | 20.68                 | --                     | --                         |
|             | 10/2/2008  | Unknown       | 22'-32'           | Well could not be located |                       |                        |                            |
|             | 10/31/2011 | Unknown       | 22'-32'           | Not sampled               |                       |                        |                            |
|             | 12/30/2014 | Unknown       | 22'-32'           | --                        | 21.91                 | --                     | --                         |
|             | 7/24/2017  | Unknown       | 22'-32'           | --                        | 22.50                 | --                     | --                         |
| 12719-MW12  | 8/18/2005  | 97.03         | 20'-30'           | --                        | 19.57                 | --                     | 77.46                      |
|             | 10/2/2008  | 97.03         | 20'-30'           | --                        | 25.35                 | --                     | 71.68                      |
|             | 10/31/2011 | 97.03         | 20'-30'           | Not sampled               |                       |                        |                            |
|             | 12/30/2014 | 97.03         | 20'-30'           | --                        | 21.37                 | --                     | 75.66                      |
|             | 7/24/2017  | 97.03         | 20'-30'           | --                        | 21.10                 | --                     | 75.93                      |
| 12719-MW13  | 8/18/2005  | 95.89         | 17'-27'           | --                        | 20.62                 | --                     | 75.27                      |
|             | 10/2/2008  | 95.89         | 17'-27'           | --                        | 25.27                 | --                     | 70.62                      |
|             | 10/31/2011 | 95.89         | 17'-27'           | Not sampled               |                       |                        |                            |
|             | 12/30/2014 | 95.89         | 17'-27'           | --                        | 22.08                 | --                     | 73.81                      |
|             | 7/24/2017  | 95.89         | 17'-27'           | --                        | 21.91                 | --                     | 73.98                      |
| 12719-MW14  | 8/18/2005  | Unknown       | 21'-31'           | --                        | 24.84                 | --                     | --                         |
|             | 10/2/2008  | Unknown       | 21'-31'           | --                        | 28.46                 | --                     | --                         |
|             | 10/31/2011 | Unknown       | 21'-31'           | Not sampled               |                       |                        |                            |
|             | 12/30/2014 | Unknown       | 21'-31'           | --                        | 30.60                 | --                     | --                         |
|             | 7/25/2017  | Unknown       | 21'-31'           | --                        | 26.03                 | --                     | --                         |
| 12719-MW15  | 7/25/2017  | 99.70         | 25'-35'           | --                        | 28.60                 | --                     | 71.10                      |
| 12719-MW16  | 7/25/2017  | 101.75        | 28'-38'           | --                        | 30.43                 | --                     | 71.32                      |
| 12719-MW1D  | 8/18/2005  | 104.61        | 55'-60'           | --                        | 24.60                 | --                     | 80.01                      |
|             | 10/2/2008  | 104.61        | 55'-60'           | --                        | 30.46                 | --                     | 74.15                      |
|             | 10/31/2011 | 104.61        | 55'-60'           | --                        | 30.03                 | --                     | 74.58                      |
|             | 12/30/2014 | 104.61        | 55'-60'           | --                        | 26.82                 | --                     | 77.79                      |
|             | 7/25/2017  | 104.61        | 55'-60'           | --                        | 27.05                 | --                     | 77.56                      |

\*\* = Relative to top of casing

-- = Not applicable

**TABLE 3  
GROUNDWATER LABORATORY DATA  
HOT SPOT #3005  
CHESNEE, SC  
SCDHEC UST PERMIT #12719**

| Well           | Date       | Benzene                          | Toluene      | Ethylbenzene | Xylenes       | Naphthalene | MTBE      | 1,2-DCA  | EDB         | TAME       | TBA          | DIPE       | ETBE      | ETBA       | Ethanol       | TAA        | TBF        |  |
|----------------|------------|----------------------------------|--------------|--------------|---------------|-------------|-----------|----------|-------------|------------|--------------|------------|-----------|------------|---------------|------------|------------|--|
|                | Units      | ug/L                             | ug/L         | ug/L         | ug/L          | ug/L        | ug/L      | ug/L     | ug/L        | ug/L       | ug/L         | ug/L       | ug/L      | ug/L       | ug/L          | ug/L       | ug/L       |  |
|                | <b>RSL</b> | <b>5</b>                         | <b>1,000</b> | <b>700</b>   | <b>10,000</b> | <b>40</b>   | <b>25</b> | <b>5</b> | <b>0.05</b> | <b>128</b> | <b>1,400</b> | <b>150</b> | <b>47</b> | <b>n/a</b> | <b>10,000</b> | <b>240</b> | <b>n/a</b> |  |
| 12719-MW1      | 8/18/2005  | 85                               | 110          | 42           | 170           | 41          | <5.0      | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|                | 10/2/2008  | Dry - Not enough water to sample |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|                | 10/31/2011 | 57.6                             | 1.93         | 36.8         | 176           | 91.4        | 8.03      | <1.00    | NT          | <5.00      | <10.0        | <5.00      | <5.00     | <100       | <1,000        | 7.421      | <5.00      |  |
|                | 12/30/2014 | Free Product (0.13ft)            |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|                | 7/25/2017  | Free Product (0.11ft)            |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
| 12719-MW2      | 8/18/2005  | 90                               | 100          | 78           | 350           | 94          | 8.9       | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|                | 10/2/2008  | <1.00                            | <1.00        | <1.00        | <3.00         | <5.00       | <1.00     | <1.00    | <0.010      | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|                | 10/31/2011 | <1.00                            | <1.00        | <1.00        | <3.00         | 2.23        | 11.1      | <1.00    | NT          | <5.00      | <10.0        | <5.00      | <5.00     | <100       | <1,000        | 46.3       | <5.00      |  |
|                | 12/30/2014 | 100                              | 4.6          | 98           | 380           | 120         | <1.0      | <1.0     | NT          | 0.251      | <20          | <1.0       | <20       | <100       | <20           | <100       | <20        |  |
|                | 7/25/2017  | 64                               | 6.7          | 55           | 280           | 68          | <5.0      | <5.0     | <0.020      | <50        | <100         | <5.0       | <5.0      | <100       | <500          | <100       | <25        |  |
| 12719-MW2(DUP) | 7/25/2017  | 70                               | 7.3          | 59           | 290           | 64          | <5.0      | <5.0     | <0.020      | <50        | <100         | <5.0       | <5.0      | <100       | <500          | <100       | <25        |  |
|                | 8/18/2005  | 270                              | 41           | 170          | 880           | 430         | 330       | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|                | 10/2/2008  | 562                              | <25.0        | 272          | 261           | 96.53       | 4.160     | <25.0    | <0.010      | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|                | 10/31/2011 | 196                              | <20.0        | 391          | 31.33         | 143         | 2.060     | <20.0    | NT          | 163        | 255          | 53.33      | <100      | <2,000     | <20,000       | 2821       | <100       |  |
|                | 12/30/2014 | 1,300                            | 38           | 77           | 530           | 141         | 85        | <20      | NT          | 5.33       | 2501         | 30         | <20       | <400       | <2,000        | 2,500      | <100       |  |
| 12719-MW3R     | 7/25/2017  | 3,800                            | 140          | 270          | 1,500         | 431         | <100      | <100     | <0.020      | <1,000     | <2,000       | 100        | <100      | <2,000     | <10,000       | 2,700      | <500       |  |
|                | 8/18/2005  | <1.0                             | <5.0         | <5.0         | <10           | <5.0        | <5.0      | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|                | 10/2/2008  | <1.00                            | <1.00        | <1.00        | <3.00         | <5.00       | <1.00     | <1.00    | <0.010      | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|                | 10/31/2011 | Not sampled                      |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|                | 12/30/2014 | <1.0                             | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
| 12719-MW4      | 7/25/2017  | <1.0                             | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | <0.020      | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|                | 8/18/2005  | <1.0                             | <5.0         | <5.0         | <10           | <5.0        | <5.0      | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|                | 10/2/2008  | <1.0                             | <1.00        | <1.00        | <3.00         | <5.00       | <1.00     | <1.00    | <0.010      | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|                | 10/31/2011 | Not sampled                      |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|                | 12/30/2014 | <1.0                             | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
| 12719-MW5      | 7/25/2017  | <1.0                             | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | <0.020      | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|                | 8/18/2005  | <1.0                             | <5.0         | <5.0         | <10           | <5.0        | <5.0      | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|                | 10/2/2008  | Dry - Not enough water to sample |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|                | 10/31/2011 | 110                              | 11.5         | <1.00        | 9.27          | <5.00       | 4.31      | <1.00    | NT          | <5.00      | 7.111        | <5.00      | <5.00     | <100       | <1,000        | 32.0       | <5.00      |  |
|                | 12/30/2014 | 680                              | 910          | 72           | 360           | <20         | <20       | <20      | NT          | <200       | <400         | <20        | <20       | <400       | <2,000        | 1301       | <100       |  |
| 12719-MW6      | 7/25/2017  | 1,500                            | 1,500        | 73           | 1,300         | <50         | <50       | <50      | <0.020      | <500       | <1,000       | <50        | <50       | <1,000     | <5,000        | <1,000     | <250       |  |
|                | 8/18/2005  | 7.8                              | 6.3          | 5.5          | 52            | 22          | 6.8       | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|                | 10/2/2008  | 9.16                             | 1.15         | 16.9         | 133           | 43.8        | <1.00     | <1.00    | <0.010      | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|                | 10/31/2011 | 10.4                             | <1.00        | 3.17         | 91.5          | 65.4        | <1.00     | <1.00    | NT          | <5.00      | <10.0        | <5.00      | <5.00     | <100       | <1,000        | 8.521      | <5.00      |  |
|                | 12/30/2014 | 2.2                              | <1.0         | <1.0         | 13            | 9.2         | <1.0      | <1.0     | NT          | 0.341      | 121          | 1.1        | <1.0      | <20        | <100          | <20        | <5.0       |  |
| 12719-MW7      | 7/25/2017  | 1.7                              | <1.0         | 0.451        | 2.8           | <1.0        | 2.1       | <1.0     | <0.020      | <10        | 111          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|                | 8/18/2005  | <1.0                             | <5.0         | <5.0         | <10           | <5.0        | <5.0      | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|                | 10/2/2008  | <1.00                            | <1.00        | <1.00        | <3.00         | <5.00       | <1.00     | <1.00    | <0.010      | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|                | 10/31/2011 | Not sampled                      |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|                | 12/30/2014 | <1.0                             | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
| 12719-MW8      | 7/25/2017  | <1.0                             | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | <0.020      | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|                | 8/18/2005  | <1.0                             | <5.0         | <5.0         | <10           | <5.0        | <5.0      | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|                | 10/2/2008  | Well could not be located        |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|                | 10/31/2011 | Not sampled                      |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|                | 12/30/2014 | <1.0                             | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
| 12719-MW9      | 7/25/2017  | Could Not Find                   |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|                | 8/18/2005  | <1.0                             | <5.0         | <5.0         | <10           | <5.0        | <5.0      | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|                | 10/2/2008  | <1.00                            | <1.00        | <1.00        | <3.00         | <5.00       | <1.00     | <1.00    | <0.010      | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|                | 10/31/2011 | Not sampled                      |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|                | 12/30/2014 | <1.0                             | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
| 7/25/2017      | <1.0       | <1.0                             | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <0.020   | <10         | <20        | <1.0         | <1.0       | <20       | <100       | <20           | <5.0       |            |  |

**TABLE 3  
GROUNDWATER LABORATORY DATA  
HOT SPOT #3005  
CHESNEE, SC  
SCDHEC UST PERMIT #12719**

| Well        | Date       | Benzene                   | Toluene | Ethylbenzene | Xylenes | Naphthalene | MTBE  | 1,2-DCA | EDB    | TAME  | TBA   | DIPE  | ETBE  | ETBA | Ethanol | TAA   | TBF   |
|-------------|------------|---------------------------|---------|--------------|---------|-------------|-------|---------|--------|-------|-------|-------|-------|------|---------|-------|-------|
|             | Units      | ug/L                      | ug/L    | ug/L         | ug/L    | ug/L        | ug/L  | ug/L    | ug/L   | ug/L  | ug/L  | ug/L  | ug/L  | ug/L | ug/L    | ug/L  | ug/L  |
|             | RISL       | 5                         | 1,000   | 700          | 10,000  | 40          | 25    | 5       | 0.05   | 128   | 1,400 | 150   | 47    | n/a  | 10,000  | 240   | n/a   |
| 12719-MW10  | 8/18/2005  | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |
|             | 10/2/2008  | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |
|             | 10/31/2011 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |
|             | 12/30/2014 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |
| 12719-MW10R | 8/18/2005  | <1.0                      | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |
|             | 10/2/2008  | <1.00                     | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |
|             | 10/31/2011 | <1.00                     | <1.00   | <1.00        | <3.00   | 1.88J       | <1.00 | <1.00   | NT     | <5.00 | <10.0 | <5.00 | <5.00 | <100 | <1,000  | <20.0 | <5.00 |
|             | 12/30/2014 | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |
|             | 7/24/2017  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |
| 12719-MW11  | 8/18/2005  | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |
|             | 10/2/2008  | <1.00                     | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |
|             | 10/31/2011 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |
|             | 12/30/2014 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |
| 12719-MW11R | 8/18/2005  | <1.0                      | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |
|             | 10/2/2008  | Well could not be located |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |
|             | 10/31/2011 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |
|             | 12/30/2014 | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |
|             | 7/24/2017  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |
| 12719-MW12  | 8/18/2005  | <1.0                      | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |
|             | 10/2/2008  | <1.00                     | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |
|             | 10/31/2011 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |
|             | 12/30/2014 | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |
|             | 7/24/2017  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |
| 12719-MW13  | 8/18/2005  | <1.0                      | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |
|             | 10/2/2008  | <1.00                     | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |
|             | 10/31/2011 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |
|             | 12/30/2014 | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |
|             | 7/24/2017  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |
| 12719-MW14  | 8/18/2005  | <1.0                      | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |
|             | 10/2/2008  | <1.00                     | <1.00   | <1.00        | <3.00   | <5.00       | <1.12 | <1.00   | <0.010 | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |
|             | 10/31/2011 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |
|             | 12/30/2014 | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |
|             | 7/24/2017  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |
| 12719-MW15  | 7/25/2017  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |
| 12719-MW16  | 7/25/2017  | 1,000                     | 120     | 25           | 580     | 17J         | 150   | <20     | <0.020 | 12J   | <400  | <20   | <20   | <400 | <2,000  | 1,000 | <100  |
| 12719-MW1D  | 8/18/2005  | <1.0                      | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |
|             | 10/2/2008  | <1.00                     | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |
|             | 10/31/2011 | <1.00                     | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | NT     | <5.00 | <10.0 | <5.00 | <5.00 | <100 | <1,000  | <20.0 | <5.00 |
|             | 12/30/2014 | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |
|             | 7/25/2017  | 0.43J                     | <1.0    | <1.0         | 0.68J   | 0.42J       | <1.0  | <1.0    | <0.020 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |
| 12719-FB1   | 7/24/2017  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |
| 12719-FB2   | 7/25/2017  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |
| 12719-TB    | 7/24/2017  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |

NOTES:

RISL = Risk-Based Screening Level

Bold Italic indicates parameter exceeds SCDHEC RISLs except 1,2-DCA which is based on EPA limit

ug/L = micrograms per liter

NT = Parameter was not tested during this event

MTBE = tert-Butyl methyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

TAME = tert-Amyl methyl ether

TBA = tert-Butyl Alcohol or t-Butanol

DIPE = Isopropyl ether or diisopropyl ether

ETBE = Ethyl tert-butyl ether

ETBA = 3,3-Dimethyl-1-butanol or ethyl tert-butanol

TAA = tert-amyl alcohol

TBF = tert-butyl formate

J - Indicates an estimated value

(DUP) = Field duplicate sample

FB = Field Blank sample

TB = Trip Blank sample

## **J. FIGURES**

### **1. Topographic Map**

Figure 1 Topographic Map - Attached

### **2. Site Base Map**

Figure 2 Site Base Map - Attached

### **3. CoC Site Maps**

Figure 3 Soil CoC Map - Not Applicable

Figure 4A Groundwater CoC Map - Attached

Figure 4B Groundwater CoC Map (Oxygenates) - Attached

### **4. Site Potentiometric Maps**

Figure 5 Site Potentiometric Map – Attached

### **5. Geologic Cross Sections**

Figure 6 Geologic Cross Sections - Not Applicable

### **6. Predicted Migration and Attenuation of CoCs**

Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable

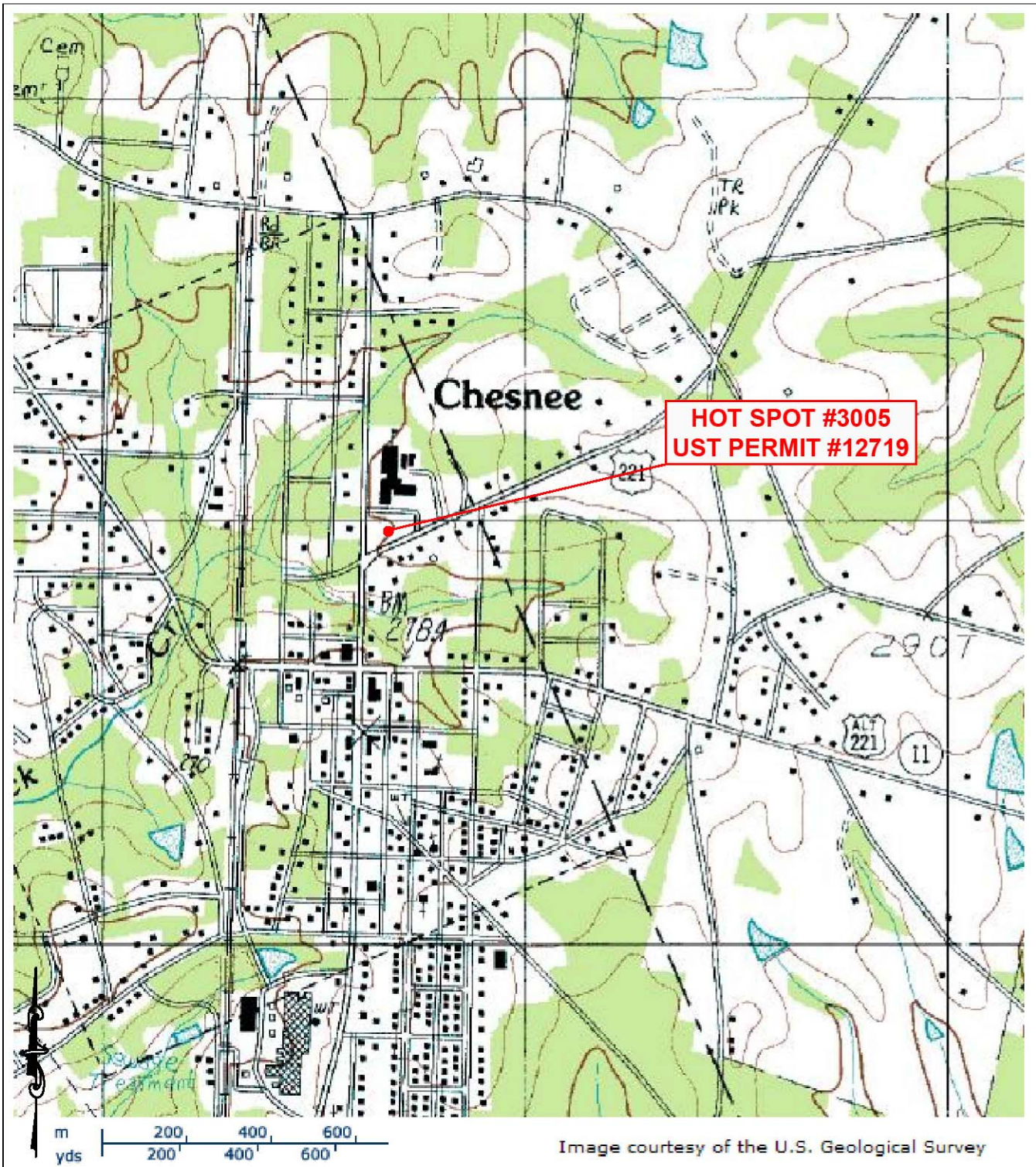


Image courtesy of the U.S. Geological Survey



**FIGURE 1  
TOPOGRAPHIC MAP**

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

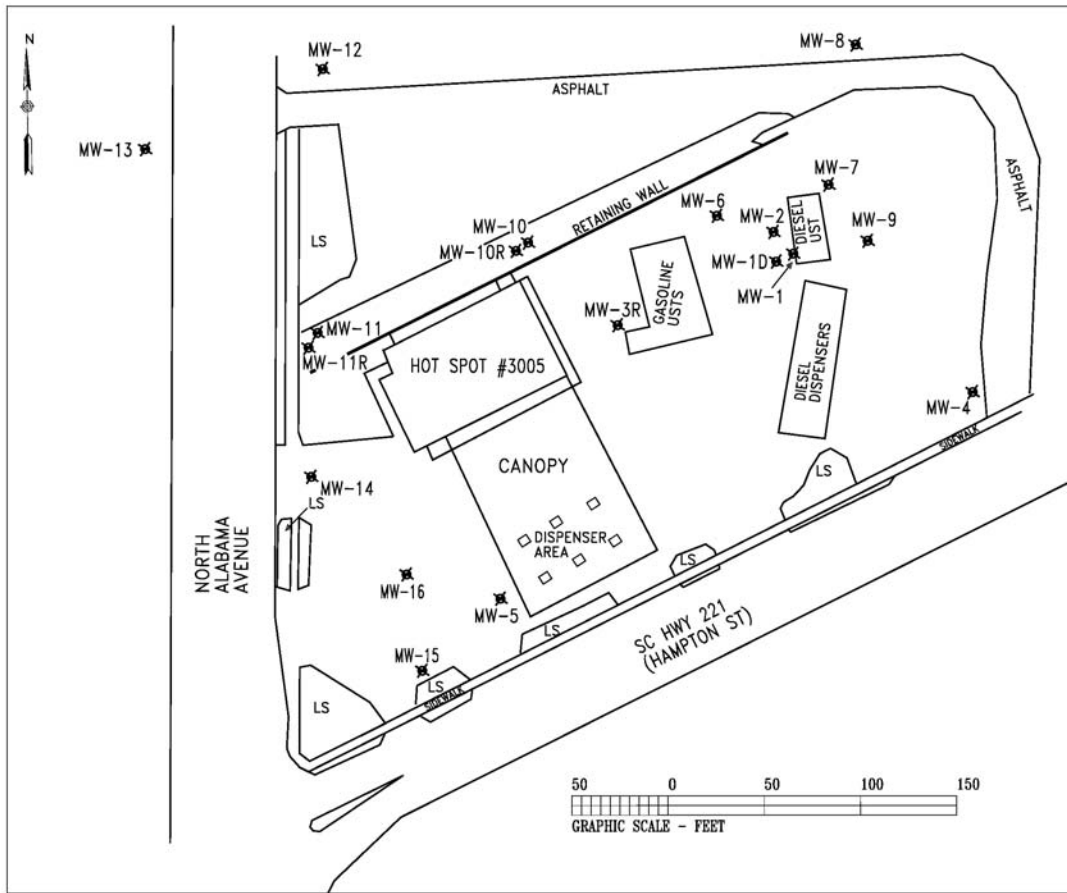
*... providing our clients with the best services available,  
actually understanding our clients objectives,  
and making their objectives our own!*

PO Box 25  
Summerville, South Carolina 29484  
(800) 325-0605 (843)-873-8200 fax: (843)-873-8765

|           |                              |                                     |     |
|-----------|------------------------------|-------------------------------------|-----|
| SIZE<br>B | TERRY Project No.<br>2230.8H | DWG NO.<br>Figure 1 Topographic Map | REV |
|-----------|------------------------------|-------------------------------------|-----|

SCALE: As Shown

DATE: July 2017



**LEGEND & ABBREVIATIONS:**  
 ✖ MW = MONITORING WELL  
 LS = LANDSCAPING  
 ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (i.e. 12719-MW1)

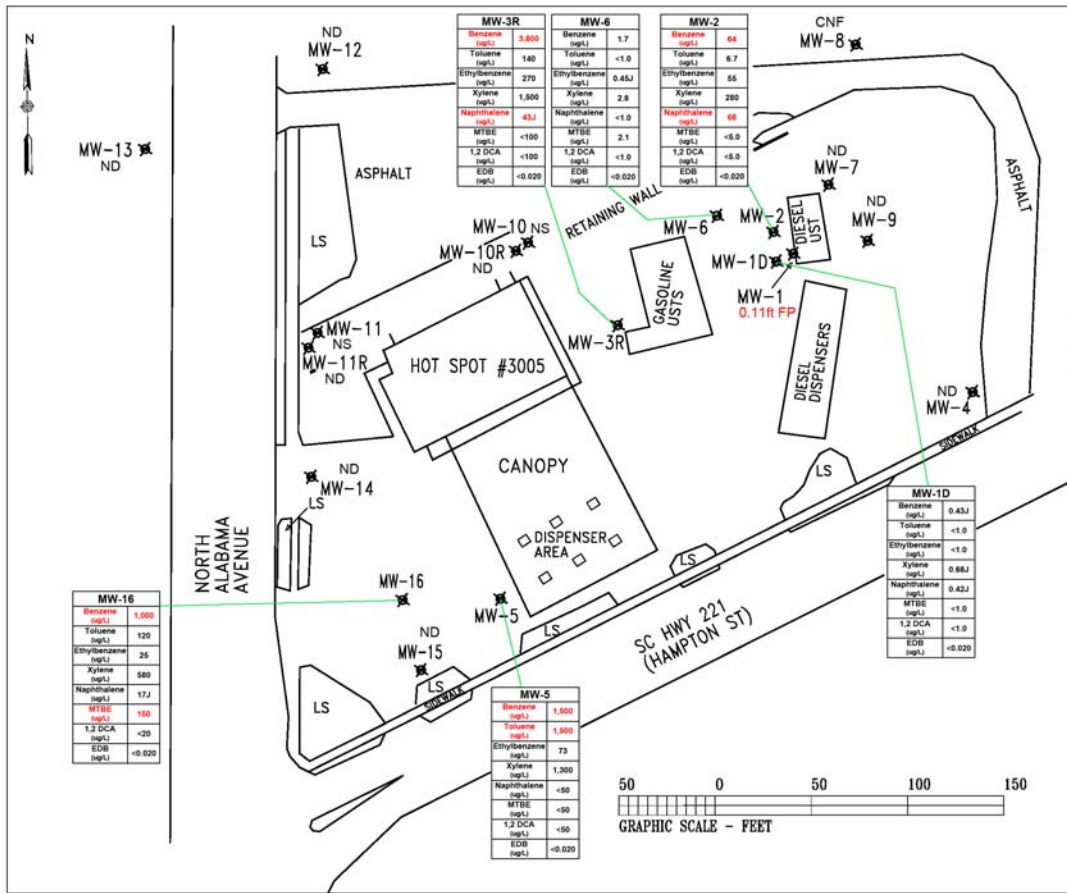


**TERRY**  
 ENVIRONMENTAL SERVICES  
 CLIENTS FIRST ALWAYS

**FIGURE 2  
 SITE BASE MAP**

HOT SPOT #3005  
 107 HAMPTON STREET  
 CHESNEE, SOUTH CAROLINA

|                            |                           |
|----------------------------|---------------------------|
| TERRY PROJECT #<br>2230.8H | SCDHEC SITE ID #<br>12719 |
| SCALE<br>1" = 50'          | DATE<br>July 2017         |




**LEGEND & ABBREVIATIONS:**

- ✖ MW = MONITORING WELL
- LS = LANDSCAPING
- ND = NON DETECT
- NS = NOT SAMPLED
- CNF = COULD NOT FIND

MTBE = METHYL TERTIARY BUTYL ETHER  
 1,2 DCA = 1,2-DICHLOROETHANE  
 J = ESTIMATED VALUE  
 ND = LABORATORY ANALYSIS INDICATES ALL COC AT OR BELOW DETECTION LIMITS

RED INDICATES CONTAMINANTS EXCEED RBLS  
 SAMPLES COLLECTED JULY 24 & 25, 2017.

ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (i.e. 12719-MW1)



**TERRY ENVIRONMENTAL SERVICES**  
CLIENTS FIRST ALWAYS

**FIGURE 4A  
GROUNDWATER COC MAP**

HOT SPOT #3005  
SC HIGHWAY 221  
CHESNEE, SOUTH CAROLINA

|                            |                           |
|----------------------------|---------------------------|
| TERRY PROJECT #<br>2230.8H | SCDHEC SITE ID #<br>12719 |
| SCALE<br>1" = 50'          | DATE<br>July 2017         |

| MW-16               |        |
|---------------------|--------|
| Benzene (ng/L)      | 1,000  |
| Toluene (ng/L)      | 120    |
| Ethylbenzene (ng/L) | 26     |
| Xylene (ng/L)       | 580    |
| Naphthalene (ng/L)  | 17.1   |
| MTBE (ng/L)         | 190    |
| 1,2 DCA (ng/L)      | <20    |
| EDB (ng/L)          | <0.020 |

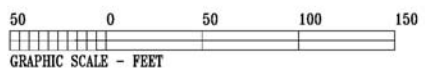
| MW-3R               |        |
|---------------------|--------|
| Benzene (ng/L)      | 3,800  |
| Toluene (ng/L)      | 140    |
| Ethylbenzene (ng/L) | 270    |
| Xylene (ng/L)       | 1,500  |
| Naphthalene (ng/L)  | 43.1   |
| MTBE (ng/L)         | <100   |
| 1,2 DCA (ng/L)      | <100   |
| EDB (ng/L)          | <0.020 |

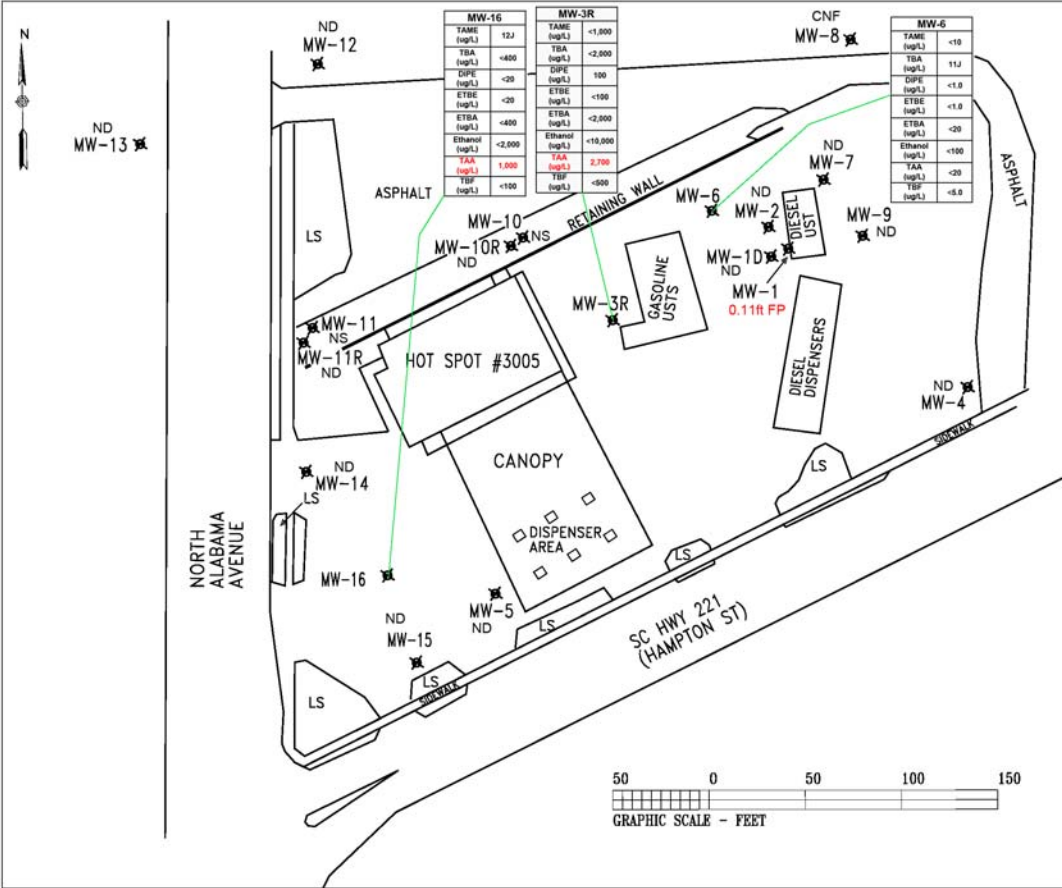
| MW-6                |        |
|---------------------|--------|
| Benzene (ng/L)      | 1.7    |
| Toluene (ng/L)      | <1.0   |
| Ethylbenzene (ng/L) | 0.45J  |
| Xylene (ng/L)       | 2.8    |
| Naphthalene (ng/L)  | <1.0   |
| MTBE (ng/L)         | 2.1    |
| 1,2 DCA (ng/L)      | <1.0   |
| EDB (ng/L)          | <0.020 |

| MW-2                |        |
|---------------------|--------|
| Benzene (ng/L)      | 64     |
| Toluene (ng/L)      | 6.7    |
| Ethylbenzene (ng/L) | 55     |
| Xylene (ng/L)       | 280    |
| Naphthalene (ng/L)  | 66     |
| MTBE (ng/L)         | <5.0   |
| 1,2 DCA (ng/L)      | <5.0   |
| EDB (ng/L)          | <0.020 |

| MW-1D               |        |
|---------------------|--------|
| Benzene (ng/L)      | 0.43J  |
| Toluene (ng/L)      | <1.0   |
| Ethylbenzene (ng/L) | <1.0   |
| Xylene (ng/L)       | 0.68J  |
| Naphthalene (ng/L)  | 0.42J  |
| MTBE (ng/L)         | <1.0   |
| 1,2 DCA (ng/L)      | <1.0   |
| EDB (ng/L)          | <0.020 |

| MW-5                |        |
|---------------------|--------|
| Benzene (ng/L)      | 1,500  |
| Toluene (ng/L)      | 1,900  |
| Ethylbenzene (ng/L) | 73     |
| Xylene (ng/L)       | 1,300  |
| Naphthalene (ng/L)  | <50    |
| MTBE (ng/L)         | <50    |
| 1,2 DCA (ng/L)      | <50    |
| EDB (ng/L)          | <0.020 |





**LEGEND & ABBREVIATIONS:**

- ✖ MW = MONITORING WELL
- NS = NOT SAMPLED
- CNF = COULD NOT FIND
- LS = LANDSCAPING

TAME = TERT-AMYL METHYL ETHER  
TBA = TERT-BUTYL ALCOHOL or T-BUTANOL  
DIPE = ISOPROPYL ETHER or DIISOPROPYL ETHER  
ETBE = ETHYL TERT-BUTYL ETHER  
ETBA = 3,3-DIMETHYL-1-BUTANOL  
TAA = TERT-AMYL ALCOHOL  
TBF = TERT-BUTYL FORMATE  
J = ESTIMATED VALUE  
ND = LABORATORY ANALYSIS INDICATES ALL CoC AT OR BELOW DETECTION LIMITS

RED INDICATES CONTAMINANTS EXCEED RBLS

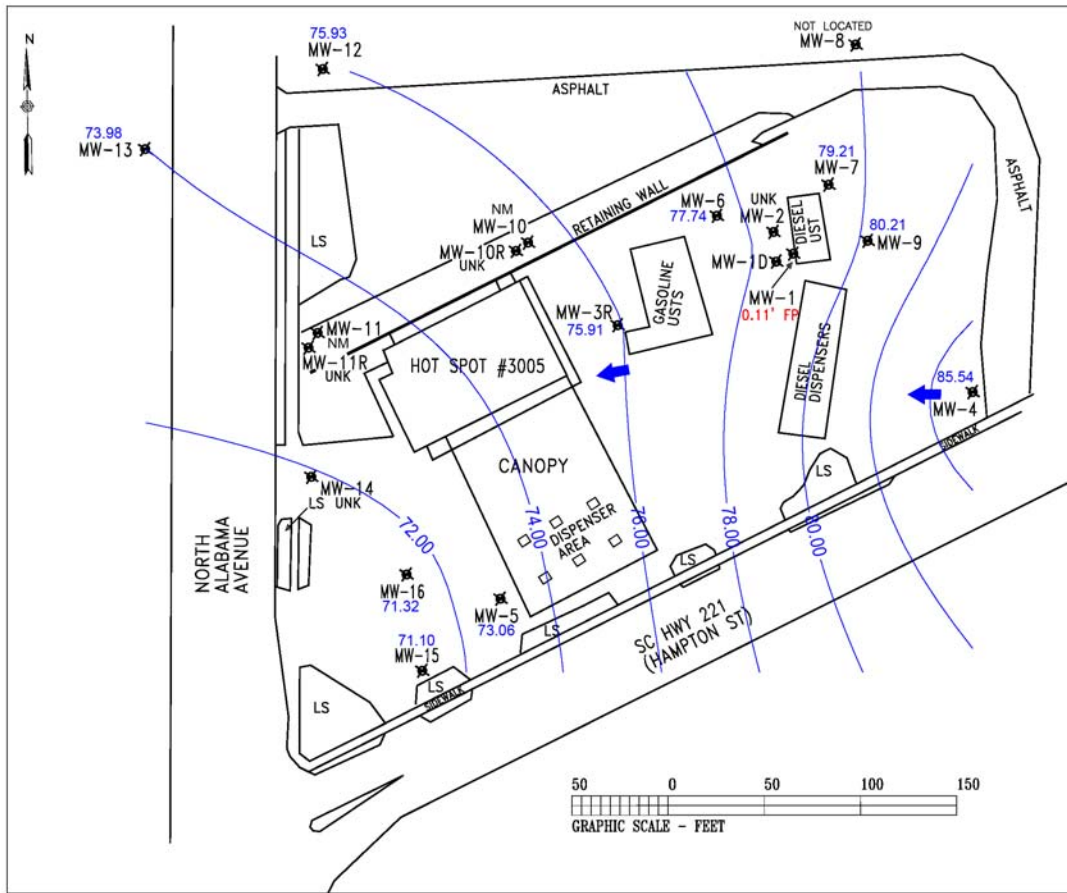
SAMPLES COLLECTED JULY 24 & 25, 2017.  
ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (ie. 12719-MW1)

**FIGURE 4B  
GROUNDWATER COC MAP  
(OXYGENATES)**

HOT SPOT #3005  
SC HIGHWAY 221  
CHESNEE, SOUTH CAROLINA

|                 |                  |
|-----------------|------------------|
| TERRY PROJECT # | SCOHEC SITE ID # |
| 2230.8H         | 12719            |
| SCALE 1" = 50'  | DATE July 2017   |





**LEGEND & ABBREVIATIONS:**

- MW = MONITORING WELL
- LS = LANDSCAPING
- NM = NOT MEASURED
- UNK = UNKNOWN WATER TABLE SURFACE ELEVATION
- FP = FREE PRODUCT
- 75.91 GROUNDWATER ELEVATION (RELATIVE TO AN ASSUMED DATUM)
- 78.00- GROUNDWATER CONTOUR
- ← GROUNDWATER FLOW DIRECTION

MEASUREMENTS COLLECTED JULY 24 & 25, 2017.  
 ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (i.e. 12719-MW1)



**FIGURE 5  
GROUNDWATER POTENTIOMETRIC MAP**

|   |                           |
|---|---------------------------|
| HOT SPOT #3005<br>107 HAMPTON STREET<br>CHESNEE, SOUTH CAROLINA |                           |
| TERRY PROJECT #<br>2230.8H                                      | SCDHEC SITE ID #<br>12719 |
| SCALE<br>1" = 50'   | DATE<br>July 2017         |



**K. APPENDICES**

**1. Appendix A: Site Survey**

Not Applicable

**2. Appendix B: Sampling Logs and Laboratory Data**

**3. Appendix C: Tax Map**

Not Applicable

**4. Appendix D: Soil Boring/Field Screening Logs**

Not Applicable

**5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms**

**6. Appendix F: Aquifer Evaluation Forms**

Not Applicable

**7. Appendix G: Disposal Manifest**

**8. Appendix H: Local Zoning Regulations**

Not Applicable

**9. Appendix I: Fate and Transport Modeling Data**

Not Applicable

**10. Appendix J: Access Agreements**

Not Applicable

**11. Appendix K: Data Verification Checklist**

**APPENDIX A**

**Site Survey  
(Not Applicable)**

## **APPENDIX B**

### **Sampling Logs and Laboratory Data**

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |                |                           |                    | Monitoring Well Information             |   |                          |   |                          |      |                                     |
|--------------------------------|----------------|---------------------------|--------------------|---|---|--------------------------|---|--------------------------|------|-------------------------------------|
| Terry Project ID               | 2230.8H        |                           |                    | Well ID                                 | 12719 - MW-1  |                          |   |                          |      |                                     |
| SCDHEC Permit No.              | 12719          |                           |                    | Testing Parameters                      | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |                          |   |                          |      |                                     |
| Project Name                   | Hot Spot #3005 |                           |                    |   |   |                          |   |                          |      |                                     |
| Date                           | 7/25/2017      |                           |                    |   |   |                          |   |                          |      |                                     |
| Field Personnel                | MJ             |                           |                    | Well Diameter                           | 2   | in                       | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |                          |      |                                     |
| General Weather                | clear          |                           |                    | Screened Interval                       |   | ft                       |   |                          |      |                                     |
| Ambient Air Temperature        | 90°            |                           |                    | Total Well Depth (nearest 0.1')         |   | ft                       |   |                          |      |                                     |
| Quality Assurance              |                |                           |                    | Depth to Groundwater (nearest 0.01')    |   | ft                       |   |                          |      |                                     |
| pH Meter                       | Horiba U-52-2  | or                        | Conductivity Meter | Horiba U-52-2                           | Length of Water Column                                |                          |   | ft                       |      |                                     |
| Serial Number                  | VPTPGA3X       |                           | Serial Number      | V3KNWUE9                                | 1 Casing Volume (0.163)                               |                          | ft  |                          |      |                                     |
| Calibration Constant           | 4.00           | Calibration Constant      | 4.49 mS/cm         | 3 Casing Volumes (0.489)                |   | gals                     |   |                          |      |                                     |
| Calibration Constant           | 6.86           | Calibration Constant      | 53.0 mS/cm         | Total Volume Purged                     |   | gals                     |   |                          |      |                                     |
| Calibration Constant           | 9.18           | Calibration Constant      | 58.7 mS/cm         | Purge Technique Utilized (bailer, pump) |   |                          |   |                          |      |                                     |
| Last Calibration (time)        | 0835           | Last Verification √(time) | 1235               | Well Yield                              | Low   | <input type="checkbox"/> | Medium  | <input type="checkbox"/> | High | <input checked="" type="checkbox"/> |
| Volume (gal)                   | 10421          |                           |                    |   |   |                          |   |                          |      |                                     |
| Time (military)                | 1318           |                           |                    |   |   |                          |   |                          |      |                                     |
| pH (su)                        |                |                           |                    |   |   |                          |   |                          |      |                                     |
| Spec Conductivity (mS/cm)      |                |                           |                    |   |   |                          |   |                          |      |                                     |
| Water Temperature (°C)         |                |                           |                    |   |   |                          |   |                          |      |                                     |
| Turbidity (NTU)                |                |                           |                    |   |   |                          |   |                          |      |                                     |
| Dissolved Oxygen (mg/L)        |                |                           |                    |   |   |                          |   |                          |      |                                     |
| Well Condition Information     |                |                           |                    | Additional Comments                     |   |                          |   |                          |      |                                     |
| -overall condition acceptable? |                |                           |                    | DTP                                     | DTW   | Color                    | di. H. Resonance  |                          |      |                                     |
| -well cap acceptable?          |                |                           |                    | 20.35                                   | 20.40   | dark amber               | 0.11  |                          |      |                                     |
| -manhole and cover acceptable? |                |                           |                    |   |   |                          |   |                          |      |                                     |
| -well pad acceptable?          |                |                           |                    |   |   |                          |   |                          |      |                                     |
| -area safe?                    |                |                           |                    |   |   |                          |   |                          |      |                                     |
| -other comments                |                |                           |                    |   |   |                          |   |                          |      |                                     |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information                             |               |                          |               | Monitoring Well Information            |                         |   |      |
|---|---------------|--------------------------|---------------|--|-------------------------|---|------|
| Terry Project ID                                      |               | 2230.8H                  |               | Well ID                                |                         | 12719 - MW-2  |      |
| SCDHEC Permit No.                                     |               | 12719                    |               | Testing Parameters                     |                         | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB   |      |
| Project Name  |               | Hot Spot #3005           |               |  |                         |   |      |
| Date  |               | 7/25/2017                |               |  |                         |   |      |
| Field Personnel                                       |               | MT                       |               | Well Diameter                          |                         | 2   | in   |
| General Weather                                       |               | Clear                    |               | Screened Interval                      |                         | 26-30   | ft   |
| Ambient Air Temperature                               |               | 90                       |               | Total Well Depth (nearest 0.1')        |                         | 30.0  | ft   |
| Quality Assurance                                     |               |                          |               | Depth to Groundwater (nearest 0.01')   |                         | 26.10   | ft   |
| pH Meter  | Horiba U-52-2 | Conductivity Meter       | Horiba U-52-2 | Length of Water Column                 |                         | 9.84  | ft   |
| Serial Number   | VPTPGA3X      | or                       | Serial Number | V3KNWUE9                               | 1 Casing Volume (0.163) |   | 1.60 |
| Calibration Constant                                  | 4.00          | Calibration Constant     | 4.49 mS/cm    | 3 Casing Volumes (0.489)               |                         | 4.81  | gals |
| Calibration Constant                                  | 6.86          | Calibration Constant     | 53.0 mS/cm    | Total Volume Purged                    |                         | 5.8   | gals |
| Calibration Constant                                  | 9.18          | Calibration Constant     | 58.7 mS/cm    | Purge Technique Utilized (Ball & Pump) |                         |   |      |
| Last Calibration (time)                               | 0935          | Last Verification (time) |               | Well Yield                             |                         | Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> | 30.0 |
| Volume (gal)  | 10.01         | 1.75                     | 35            | 525                                    | Sample                  |   |      |
| Time (military)                                       | 1218          | 1221                     | 1224          | 1227                                   |                         |   |      |
| pH (su)   | 10.07         | 539                      | 538           | 535                                    |                         |   |      |
| Spec Conductivity (mS/cm)                             | 0.152         | 0.134                    | 0.133         | 0.138                                  |                         |   |      |
| Water Temperature (°C)                                | 28.1          | 27.5                     | 27.5          | 27.5                                   |                         |   |      |
| Turbidity (NTU)                                       | 100.7         | 35                       | 35.0          | 528                                    |                         |   |      |
| Dissolved Oxygen (mg/L)                               | 8.03          | 7.09                     | 7.09          | 7.07                                   |                         |   |      |
| Well Condition Information                            |               |                          |               | Additional Comments                    |                         |   |      |
| -overall condition acceptable? <u>yes both rising</u> |               |                          |               | MW-2-DUP @ 1227                        |                         |   |      |
| -well cap acceptable?                                 |               |                          |               |  |                         |   |      |
| -manhole and cover acceptable?                        |               |                          |               |  |                         |   |      |
| -well pad acceptable?                                 |               |                          |               |  |                         |   |      |
| -area safe?   |               |                          |               |  |                         |   |      |
| -other comments                                       |               |                          |               |  |                         |   |      |

**Groundwater Sampling Log**




**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information  |                           |   |                           | Monitoring Well Information                      |               |   |                                 |                               |
|--|---------------------------|---|---------------------------|--|---------------|---|---------------------------------|-------------------------------|
| Terry Project ID   |                           | 2230.8H   |                           | Well ID  |               | 12719 - <u>MW-3R</u>                                  |                                 |                               |
| SCDHEC Permit No.  |                           | 12719   |                           | Testing Parameters                               |               | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |                                 |                               |
| Project Name   |                           | Hot Spot #3005  |                           |  |               |   |                                 |                               |
| Date   |                           | <u>7/25/2017</u>  |                           |  |               |   |                                 |                               |
| Field Personnel  |                           | <u>MT</u>   |                           |  |               |   |                                 |                               |
| General Weather  |                           | <u>Wet</u>  |                           | Well Diameter                                    |               | <u>2</u>  | in                              |                               |
| Ambient Air Temperature  |                           | <u>90</u>   |                           | Screened Interval                                |               | <u>20-30</u>  | ft                              |                               |
| Quality Assurance  |                           |   |                           | Total Well Depth (nearest 0.1')                  |               | <u>300</u>  | ft                              |                               |
|  |                           |   |                           | Depth to Groundwater (nearest 0.01')             |               | <u>2901</u>   | ft                              |                               |
| pH Meter<br>Serial Number<br>Calibration Constant<br>Calibration Constant<br>Calibration Constant<br>Last Calibration (time) | Horiba U-52-2<br>VPTPGA3X | or<br>Conductivity Meter<br>Serial Number<br>Calibration Constant<br>Calibration Constant<br>Calibration Constant<br>Last Verification (time) | Horiba U-52-2<br>V3KNWUE9 | Length of Water Column                           |               | <u>6.09</u>   | ft                              |                               |
|  | 4.00                      |   | 4.49 mS/cm                | 1 Casing Volume (0.163)                          |               | <u>1.13</u>   | ft                              |                               |
|  | 6.86                      |   | 53.0 mS/cm                | 3 Casing Volumes (0.489)                         |               | <u>3.41</u>   | gals                            |                               |
|  | 9.18                      |   | 58.7 mS/cm                | Total Volume Purged                              |               | <u>3.75</u>   | gals                            |                               |
|  | <u>0835</u>               |   | <u>1235</u>               | Purge Technique Utilized ( <u>bauler</u> , pump) |               |   |                                 |                               |
|  |                           |   |                           | Well Yield                                       |               | Low <input checked="" type="checkbox"/>               | Medium <input type="checkbox"/> | High <input type="checkbox"/> |
| Volume (gal)   | <u>1.25</u>               | <u>1.75</u>   | <u>2.50</u>               | <u>3.75</u>                                      | <u>Kemper</u> |   |                                 |                               |
| Time (military)  | <u>1305</u>               | <u>1308</u>   | <u>1311</u>               | <u>1314</u>                                      |               |   |                                 |                               |
| pH (su)  | <u>5.93</u>               | <u>5.63</u>   | <u>5.60</u>               | <u>5.61</u>                                      |               |   |                                 |                               |
| Spec Conductivity (mS/cm)  | <u>0.402</u>              | <u>0.302</u>  | <u>0.301</u>              | <u>0.303</u>                                     |               |   |                                 |                               |
| Water Temperature (°C)   | <u>26.2</u>               | <u>25.0</u>   | <u>25.0</u>               | <u>25.0</u>                                      |               |   |                                 |                               |
| Turbidity (NTU)  | <u>10.3</u>               | <u>11.0</u>   | <u>11.7</u>               | <u>11.4</u>                                      |               |   |                                 |                               |
| Dissolved Oxygen (mg/L)  | <u>6.41</u>               | <u>9.22</u>   | <u>9.21</u>               | <u>9.00</u>                                      |               |   |                                 |                               |
| Well Condition Information   |                           |   |                           | Additional Comments                              |               |   |                                 |                               |
| -overall condition acceptable? <u>NO WTS</u>   |                           |   |                           | <u>strong odor</u>                               |               |   |                                 |                               |
| -well cap acceptable?  |                           |   |                           |  |               |   |                                 |                               |
| -manhole and cover acceptable?   |                           |   |                           |  |               |   |                                 |                               |
| -well pad acceptable?  |                           |   |                           |  |               |   |                                 |                               |
| -area safe?  |                           |   |                           |  |               |   |                                 |                               |
| -other comments  |                           |   |                           |  |               |   |                                 |                               |

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH. WRITE BELOW TO NEAREST 0.1'

**Groundwater Sampling Log**

|  |               |   |               |  |   |   |  |                               |      |
|--|---------------|---|---------------|--|---|---|--|-------------------------------|------|
|    |               |   |               | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |   |   |  |                               |      |
| <b>Site Specific Information</b>   |               |   |               | <b>Monitoring Well Information</b>                     |   |   |  |                               |      |
| Terry Project ID   |               | 2230.8H   |               | Well ID  |   | 12719 - MW-4  |  |                               |      |
| SCDHEC Permit No.  |               | 12719   |               | Testing Parameters                                     |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |  |                               |      |
| Project Name   |               | Hot Spot #3005  |               |  |   |   |  |                               |      |
| Date   |               | 7/16/2017   |               |  |   |   |  |                               |      |
| Field Personnel  |               | MT  |               | Well Diameter  |   | 2   | in   |                               |      |
| General Weather  |               | clear   |               | Screened Interval                                      |   | 36-46   | ft   |                               |      |
| Ambient Air Temperature  |               | 85°   |               | Total Well Depth (nearest 0.1')                        |   | 46.0  | ft   |                               |      |
| <b>Quality Assurance</b>   |               |   |               | Depth to Groundwater (nearest 0.01')                   |   | 25.78   | ft   |                               |      |
| pH Meter<br>Serial Number<br>Calibration Constant<br>Calibration Constant<br>Calibration Constant<br>Last Calibration (time) | Horiba U-52-2 | Conductivity Meter<br>Serial Number<br>Calibration Constant<br>Calibration Constant<br>Calibration Constant<br>Last Verification (time) | Horiba U-52-2 | Length of Water Column                                 |   | 20.22   | ft   |                               |      |
|  | VTPGA3X       |   | or            | V3KNWUE9   | 1 Casing Volume (0.163)                 |   | 3.29                                       | ft                            |      |
|  | 4.00          |   |               | 4.49 mS/cm   | 3 Casing Volumes (0.489)                |   | 9.88                                       | gals                          |      |
|  | 6.86          |   |               | 53.0 mS/cm   | Total Volume Purged                     |   | 1050                                       | gals                          |      |
|  | 9.18          |   |               | 58.7 mS/cm   | Purge Technique Utilized (bailey, pump) |   |  |                               |      |
| 0835   |               |   |               | Well Yield   |   | Low   | <input checked="" type="checkbox"/> Medium | <input type="checkbox"/> High | 46.0 |
| Volume (gal)   | initial       | 3.5   | 7.0           | 10.5   | / sample                                |   |  |                               |      |
| Time (military)  | 0845          | 0848  | 0851          | 0854   |   |   |  |                               |      |
| pH (su)  | 8.03          | 7.82  | 7.80          | 7.79   |   |   |  |                               |      |
| Spec Conductivity (mS/cm)  | 0.160         | 0.171   | 0.171         | 0.170  |   |   |  |                               |      |
| Water Temperature (°C)   | 24.7          | 24.7  | 24.7          | 24.7   |   |   |  |                               |      |
| Turbidity (NTU)  | 0.3           | 4.1   | 40.3          | 39.2   |   |   |  |                               |      |
| Dissolved Oxygen (mg/L)  | 4.00          | 3.02  | 3.69          | 3.57   |   |   |  |                               |      |
| <b>Well Condition Information</b>  |               |   |               | <b>Additional Comments</b>                             |   |   |  |                               |      |
| -overall condition acceptable? <u>yes</u>  |               |   |               |  |   |   |  |                               |      |
| -well cap acceptable?  |               |   |               |  |   |   |  |                               |      |
| -manhole and cover acceptable?   |               |   |               |  |   |   |  |                               |      |
| -well pad acceptable?  |               |   |               |  |   |   |  |                               |      |
| -area safe?  |               |   |               |  |   |   |  |                               |      |
| -other comments  |               |   |               |  |   |   |  |                               |      |



**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |                           |              |                                     | Monitoring Well Information          |   |                                 |   |
|--------------------------------|---------------------------|--------------|-------------------------------------|--------------------------------------|---|---------------------------------|---|
| Terry Project ID               | 2230.8H                   |              |                                     | Well ID                              | 12719 - <u>NW-S</u>                                   |                                 |   |
| SCDHEC Permit No.              | 12719                     |              |                                     | Testing Parameters                   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |                                 |   |
| Project Name                   | Hot Spot #3005            |              |                                     |                                      |   |                                 |   |
| Date                           | 7/25/2017                 |              |                                     |                                      |   |                                 |   |
| Field Personnel                | <u>MT</u>                 |              |                                     |                                      |   |                                 |   |
| General Weather                | <u>Clear</u>              |              |                                     | Well Diameter                        | <u>2</u>  | in                              | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| Ambient Air Temperature        | <u>90°</u>                |              |                                     | Screened Interval                    | <u>22-32</u>  | ft                              |   |
| Quality Assurance              |                           |              |                                     | Total Well Depth (nearest 0.1')      | <u>320</u>  | ft                              |   |
|                                |                           |              |                                     | Depth to Groundwater (nearest 0.01') | <u>320.51</u>   | ft                              |   |
| pH Meter<br>Serial Number      | Horiba U-52-2<br>VPTPGA3X | or           | Conductivity Meter<br>Serial Number | Horiba U-52-2<br>V3KNWUE9            | Length of Water Column                                | <u>1.49</u>                     |   |
| Calibration Constant           | 4.00                      |              | Calibration Constant                | 4.49 mS/cm                           | 1 Casing Volume (0.163)                               | <u>0.25</u>                     | ft  |
| Calibration Constant           | 6.86                      |              | Calibration Constant                | 53.0 mS/cm                           | 3 Casing Volumes (0.489)                              | <u>0.75</u>                     | gals  |
| Calibration Constant           | 9.18                      |              | Calibration Constant                | 58.7 mS/cm                           | Total Volume Purged                                   | <u>0.75</u>                     | gals  |
| Last Calibration (time)        | <u>0835</u>               |              | Last Verification (time)            | -                                    | Purge Technique Utilized ( <u>boiler</u> pump)        |                                 |   |
|                                |                           |              |                                     | Well Yield                           | Low <input checked="" type="checkbox"/>               | Medium <input type="checkbox"/> | High <input type="checkbox"/>   |
| Volume (gal)                   | <u>in apt</u>             | <u>0.25</u>  | <u>0.50</u>                         | <u>0.75</u>                          | <u>320</u>  |                                 |   |
| Time (military)                | <u>1130</u>               | <u>1141</u>  | <u>1144</u>                         | <u>1147</u>                          |   |                                 |   |
| pH (su)                        | <u>5.55</u>               | <u>5.52</u>  | <u>5.51</u>                         | <u>5.49</u>                          |   |                                 |   |
| Spec Conductivity (mS/cm)      | <u>0.099</u>              | <u>0.096</u> | <u>0.095</u>                        | <u>0.094</u>                         |   |                                 |   |
| Water Temperature (°C)         | <u>20.9</u>               | <u>20.8</u>  | <u>20.8</u>                         | <u>20.8</u>                          |   |                                 |   |
| Turbidity (NTU)                | <u>14.2</u>               | <u>8.7</u>   | <u>8.7</u>                          | <u>8.4</u>                           |   |                                 |   |
| Dissolved Oxygen (mg/L)        | <u>2.04</u>               | <u>1.78</u>  | <u>1.70</u>                         | <u>1.74</u>                          |   |                                 |   |
| Well Condition Information     |                           |              |                                     | Additional Comments                  |   |                                 |   |
| -overall condition acceptable? | <u>yes</u>                |              |                                     | <u>petrol odor</u>                   |   |                                 |   |
| -well cap acceptable?          |                           |              |                                     |                                      |   |                                 |   |
| -manhole and cover acceptable? |                           |              |                                     |                                      |   |                                 |   |
| -well pad acceptable?          |                           |              |                                     |                                      |   |                                 |   |
| -area safe?                    |                           |              |                                     |                                      |   |                                 |   |
| -other comments                |                           |              |                                     |                                      |   |                                 |   |

**Groundwater Sampling Log**

|  |                              |  |
|--|------------------------------|--|
|  | TERRY Environmental Services | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |
|  | CLIENTS FIRST ALWAYS         |  |

| Site Specific Information                              |               |                    |                          | Monitoring Well Information   |                         |   |      |
|--|---------------|--------------------|--------------------------|---|-------------------------|---|------|
| Terry Project ID                                       |               | 2230.8H            |                          | Well ID   |                         | 12719 - MW-0  |      |
| SCDHEC Permit No.                                      |               | 12719              |                          | Testing Parameters  |                         | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |      |
| Project Name   |               | Hot Spot #3005     |                          |   |                         |   |      |
| Date   |               | 7/5/2017           |                          |   |                         |   |      |
| Field Personnel  |               | MT                 |                          | Well Diameter   |                         | 2   | in   |
| General Weather  |               | cloudy             |                          | Screened Interval   |                         | 20-30   | ft   |
| Ambient Air Temperature                                |               | 90°                |                          | Total Well Depth (nearest 0.1')   |                         | 30.0  | ft   |
| Quality Assurance                                      |               |                    |                          | Depth to Groundwater (nearest 0.01')  |                         |   |      |
| pH Meter   | Horiba U-52-2 | Conductivity Meter | Horiba U-52-2            | Length of Water Column  |                         | 9.00  | ft   |
|  | Serial Number |                    | Serial Number            | V3KNWUE9  | 1 Casing Volume (0.163) |   | 1.50 |
| Calibration Constant                                   | VPTPGA3X      | or                 | Calibration Constant     | 3 Casing Volumes (0.489)  |                         | 4.09  | gals |
| Calibration Constant                                   | 4.00          |                    | Calibration Constant     | Total Volume Purged   |                         | 5.25  | gals |
| Calibration Constant                                   | 6.86          |                    | Calibration Constant     | Purge Technique Utilized (bailer, pump)   |                         |   |      |
| Calibration Constant                                   | 9.18          |                    | Calibration Constant     | Well Yield    Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |                         |   |      |
| Last Calibration (time)                                | 7/5/2017 0835 |                    | Last Verification (time) | 30.0  |                         |   |      |
| Volume (gal)   | 1.75          | 3.50               | 5.25                     | Kump  |                         |   |      |
| Time (military)  | 1158          | 1201               | 1204                     |   |                         |   |      |
| pH (su)  | 5.00          | 4.93               | 4.92                     |   |                         |   |      |
| Spec Conductivity (mS/cm)                              | 0.181         | 0.179              | 0.179                    |   |                         |   |      |
| Water Temperature (°C)                                 | 20.9          | 20.9               | 20.4                     |   |                         |   |      |
| Turbidity (NTU)  | 101           | 77                 | 77                       |   |                         |   |      |
| Dissolved Oxygen (mg/L)                                | 2.03          | 1.57               | 1.58                     |   |                         |   |      |
| Well Condition Information                             |               |                    |                          | Additional Comments   |                         |   |      |
| -overall condition acceptable? <i>yes see back MRP</i> |               |                    |                          |   |                         |   |      |
| -well cap acceptable?                                  |               |                    |                          |   |                         |   |      |
| -manhole and cover acceptable?                         |               |                    |                          |   |                         |   |      |
| -well pad acceptable?                                  |               |                    |                          |   |                         |   |      |
| -area safe?  |               |                    |                          |   |                         |   |      |
| -other comments  |               |                    |                          |   |                         |   |      |

**Groundwater Sampling Log**



P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information  |               |   |               | Monitoring Well Information            |       |   |      |
|--|---------------|---|---------------|--|-------|---|------|
| Terry Project ID   |               | 2230.8H   |               | Well ID                                |       | 12719 - MW-7  |      |
| SCDHEC Permit No.  |               | 12719   |               | Testing Parameters                     |       | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB   |      |
| Project Name   |               | Hot Spot #3005  |               |  |       |   |      |
| Date   |               | 7/25/2017   |               |  |       |   |      |
| Field Personnel  |               | MT  |               | Well Diameter                          |       | 2   | in   |
| General Weather  |               | Cloudy  |               | Screened Interval                      |       | 26-36   | ft   |
| Ambient Air Temperature  |               | 90°   |               | Total Well Depth (nearest 0.1')        |       | 36.0  | ft   |
| Quality Assurance  |               |   |               | Depth to Groundwater (nearest 0.01')   |       |   |      |
| pH Meter<br>Serial Number<br>Calibration Constant<br>Calibration Constant<br>Calibration Constant<br>Last Calibration (time) | Horiba U-52-2 | or<br>Conductivity Meter<br>Serial Number<br>Calibration Constant<br>Calibration Constant<br>Calibration Constant<br>Last Verification (time) | Horiba U-52-2 | Length of Water Column                 |       | 10.69   | ft   |
|  | VPTPGA3X      |   | V3KNWUE9      | 1 Casing Volume (0.163)                |       | 1.74  | ft   |
|  | 4.00          |   | 4.49 mS/cm    | 3 Casing Volumes (0.489)               |       | 5.22  | gals |
|  | 6.86          |   | 53.0 mS/cm    | Total Volume Purged                    |       | 5.25  | gals |
|  | 9.18          |   | 58.7 mS/cm    | Purge Technique Utilized (bailer pump) |       |   |      |
| Last Calibration (time)  |               | 0935  |               | Well Yield                             |       | Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |      |
| Volume (gal)   | Initial       | 1.75  | 3.50          | 5.25                                   | Range |   |      |
| Time (military)  | 0945          | 0948  | 0951          | 0954                                   |       |   |      |
| pH (su)  | 4.90          | 4.83  | 4.82          | 4.80                                   |       |   |      |
| Spec Conductivity (mS/cm)  | 0.045         | 0.044   | 0.047         | 0.050                                  |       |   |      |
| Water Temperature (°C)   | 24.7          | 23.9  | 23.9          | 23.9                                   |       |   |      |
| Turbidity (NTU)  | 11.2          | 37.2  | 37.1          | 36.0                                   |       |   |      |
| Dissolved Oxygen (mg/L)  | 4.25          | 4.17  | 4.17          | 4.10                                   |       |   |      |
| Well Condition Information   |               |   |               | Additional Comments                    |       |   |      |
| -overall condition acceptable?   |               |   |               | yes one both missing                   |       |   |      |
| -well cap acceptable?  |               |   |               |  |       |   |      |
| -manhole and cover acceptable?   |               |   |               |  |       |   |      |
| -well pad acceptable?  |               |   |               |  |       |   |      |
| -area safe?  |               |   |               |  |       |   |      |
| -other comments  |               |   |               |  |       |   |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information  |               |                |                      | Monitoring Well Information          |   |   |  |  |
|--|---------------|----------------|----------------------|--------------------------------------|---|---|--|--|
| Terry Project ID   |               | 2230.8H        |                      | Well ID                              |   | 12719 - MW8   |  |  |
| SCDHEC Permit No.  |               | 12719          |                      | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |  |  |
| Project Name   |               | Hot Spot #3005 |                      |                                      |   |   |  |  |
| Date   |               | 7/25/2017      |                      |                                      |   |   |  |  |
| Field Personnel  |               | MT             |                      | Well Diameter                        |   | in  |  |  |
| General Weather  |               | clear          |                      | Screened Interval                    |   | ft  |  |  |
| Ambient Air Temperature  |               | 91.0°          |                      | Total Well Depth (nearest 0.1')      |   | ft  |  |  |
| Quality Assurance  |               |                |                      | Depth to Groundwater (nearest 0.01') |   |   |  |  |
| pH Meter<br>Serial Number<br>Calibration Constant<br>Calibration Constant<br>Calibration Constant<br>Last Calibration (time) | Horiba U-52-2 | or             | Conductivity Meter   | Horiba U-52-2                        | Length of Water Column                  |   |  | ft   |
|  | VTPGA3X       |                | Serial Number        | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   |  | ft   |
|  | 4.00          |                | Calibration Constant | 4.49 mS/cm                           | 3 Casing Volumes (0.489)                |   |  | gals   |
|  | 6.86          |                | Calibration Constant | 53.0 mS/cm                           | Total Volume Purged                     |   |  | gals   |
|  | 9.18          |                | Calibration Constant | 58.7 mS/cm                           | Purge Technique Utilized (bailer, pump) |   |  |  |
| Last Verification (time)   |               |                |                      | Well Yield                           |   |   |  | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |
| Volume (gal)   |               |                |                      |                                      |   |   |  |  |
| Time (military)  |               |                |                      |                                      |   |   |  |  |
| pH (su)  |               |                |                      |                                      |   |   |  |  |
| Spec Conductivity (mS/cm)  |               |                |                      |                                      |   |   |  |  |
| Water Temperature (°C)   |               |                |                      |                                      |   |   |  |  |
| Turbidity (NTU)  |               |                |                      |                                      |   |   |  |  |
| Dissolved Oxygen (mg/L)  |               |                |                      |                                      |   |   |  |  |
| Well Condition Information   |               |                |                      | Additional Comments                  |   |   |  |  |
| -overall condition acceptable?   |               |                |                      | Screened from 7/25 to 7/24           |   |   |  |  |
| -well cap acceptable?  |               |                |                      | CASU - CNP                           |   |   |  |  |
| -manhole and cover acceptable?   |               |                |                      |                                      |   |   |  |  |
| -well pad acceptable?  |               |                |                      |                                      |   |   |  |  |
| -area safe?  |               |                |                      |                                      |   |   |  |  |
| -other comments  |               |                |                      |                                      |   |   |  |  |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information  |               |   |               | Monitoring Well Information   |                                       |   |      |  |
|--|---------------|---|---------------|---|---------------------------------------|---|------|--|
| Terry Project ID   |               | 2230.8H   |               | Well ID   |                                       | 12719 - MW-9  |      |  |
| SCDHEC Permit No.  |               | 12719   |               | Testing Parameters  |                                       | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB   |      |  |
| Project Name   |               | Hot Spot #3005  |               |   |                                       |   |      |  |
| Date   |               | 7/25/2017   |               |   |                                       |   |      |  |
| Field Personnel  |               | NT  |               | Well Diameter   |                                       | 2 in  |      |  |
| General Weather  |               | clear   |               | Screened Interval   |                                       | UNKNOWN   |      |  |
| Ambient Air Temperature  |               | 85  |               | Total Well Depth (nearest 0.1')   |                                       | 35.2  |      |  |
| Quality Assurance  |               |   |               | Depth to Groundwater (nearest 0.01')  |                                       |   |      |  |
| pH Meter<br>Serial Number<br>Calibration Constant<br>Calibration Constant<br>Calibration Constant<br>Last Calibration (time) | Horiba U-52-2 | Conductivity Meter<br>Serial Number<br>Calibration Constant<br>Calibration Constant<br>Calibration Constant<br>Last Verification (time) | Horiba U-52-2 | Length of Water Column  |                                       | 9.78  |      |  |
|  | VTPGA3X       |   | or            | V3KNWUE9  | 1 Casing Volume (0.163)               |   | 1.02 |  |
|  | 4.00          |   |               | 4.49 mS/cm  | 3 Casing Volumes (0.489)              |   | 4.80 |  |
|  | 6.86          |   |               | 53.0 mS/cm  | Total Volume Purged                   |   | 5.25 |  |
|  | 9.18          |   |               | 58.7 mS/cm  | Purge Technique Utilized (Gauge pump) |   |      |  |
| Last Calibration (time)  |               | 0835  |               | Well Yield  |                                       | Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |      |  |
| Volume (gal)   | 1.75          | 3.50  | 5.25          | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |                                       |   |      |  |
| Time (military)  | 0915          | 0918  | 0921          |   |                                       |   |      |  |
| pH (su)  | 6.70          | 5.44  | 5.45          |   |                                       |   |      |  |
| Spec Conductivity (mS/cm)  | 0.050         | 0.041   | 0.039         |   |                                       |   |      |  |
| Water Temperature (°C)   | 23.5          | 23.3  | 23.3          |   |                                       |   |      |  |
| Turbidity (NTU)  | 104.5         | 107   | 105           |   |                                       |   |      |  |
| Dissolved Oxygen (mg/L)  | 4.24          | 5.27  | 5.23          |   |                                       |   |      |  |
| Well Condition Information   |               |   |               | Additional Comments   |                                       |   |      |  |
| -overall condition acceptable?   |               |   |               | NO bolts  |                                       |   |      |  |
| -well cap acceptable?  |               |   |               |   |                                       |   |      |  |
| -manhole and cover acceptable?   |               |   |               |   |                                       |   |      |  |
| -well pad acceptable?  |               |   |               |   |                                       |   |      |  |
| -area safe?  |               |   |               |   |                                       |   |      |  |
| -other comments  |               |   |               |   |                                       |   |      |  |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information                      |               |                          |                    | Monitoring Well Information                    |                         |   |              |             |
|--|---------------|--------------------------|--------------------|--|-------------------------|---|--------------|-------------|
| Terry Project ID                               |               | 2230.8H                  |                    | Well ID  |                         | 12719 - <i>MW-10R</i>   |              |             |
| SCDHEC Permit No.                              |               | 12719                    |                    | Testing Parameters                             |                         | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB   |              |             |
| Project Name                                   |               | Hot Spot #3005           |                    |  |                         |   |              |             |
| Date   |               | <i>7/24/2017</i>         |                    |  |                         |   |              |             |
| Field Personnel                                |               | <i>NAT</i>               |                    | Well Diameter                                  |                         | <i>2</i>  | in           |             |
| General Weather                                |               | <i>overcast</i>          |                    | Screened Interval                              |                         | <i>22-32</i>  | ft           |             |
| Ambient Air Temperature                        |               | <i>90</i>                |                    | Total Well Depth (nearest 0.1')                |                         | <i>32.0</i>   | ft           |             |
| Quality Assurance                              |               |                          |                    | Depth to Groundwater (nearest 0.01')           |                         | <i>21.35</i>  | ft           |             |
| pH Meter<br>Serial Number                      | Horiba U-52-2 | or                       | Conductivity Meter | Horiba U-52-2                                  | Length of Water Column  |   | <i>10.65</i> | ft          |
|  | VPTPGA3X      |                          | Serial Number      | V3KNWUE9                                       | 1 Casing Volume (0.163) |   | <i>1.73</i>  | ft          |
| Calibration Constant                           | 4.00          | Calibration Constant     | 4.49 mS/cm         | 3 Casing Volumes (0.489)                       |                         | <i>5.20</i>   | gals         |             |
| Calibration Constant                           | 6.86          | Calibration Constant     | 53.0 mS/cm         | Total Volume Purged                            |                         | <i>2.25</i>   | gals         |             |
| Calibration Constant                           | 9.18          | Calibration Constant     | 58.7 mS/cm         | Purge Technique Utilized ( <i>hailer</i> pump) |                         |   |              | <i>32.0</i> |
| Last Calibration (time)                        | <i>1415</i>   | Last Verification (time) |                    | Well Yield                                     |                         | Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |              |             |
| Volume (gal)                                   | <i>1.75</i>   | <i>3.5</i>               | <i>5.25</i>        | <i>sample</i>                                  |                         |   |              |             |
| Time (military)                                | <i>1445</i>   | <i>1446</i>              | <i>1452</i>        | <i>1454</i>                                    |                         |   |              |             |
| pH (su)  | <i>4.45</i>   | <i>4.45</i>              | <i>4.41</i>        | <i>4.38</i>                                    |                         |   |              |             |
| Spec Conductivity (mS/cm)                      | <i>0.058</i>  | <i>0.055</i>             | <i>0.053</i>       | <i>0.052</i>                                   |                         |   |              |             |
| Water Temperature (°C)                         | <i>24.4</i>   | <i>24.3</i>              | <i>24.3</i>        | <i>24.3</i>                                    |                         |   |              |             |
| Turbidity (NTU)                                | <i>10.3</i>   | <i>10.4</i>              | <i>10.1</i>        | <i>97.4</i>                                    |                         |   |              |             |
| Dissolved Oxygen (mg/L)                        | <i>2.50</i>   | <i>2.38</i>              | <i>2.34</i>        | <i>2.30</i>                                    |                         |   |              |             |
| Well Condition Information                     |               |                          |                    | Additional Comments                            |                         |   |              |             |
| -overall condition acceptable? <i>NO BOLTS</i> |               |                          |                    |  |                         |   |              |             |
| -well cap acceptable?                          |               |                          |                    |  |                         |   |              |             |
| -manhole and cover acceptable?                 |               |                          |                    |  |                         |   |              |             |
| -well pad acceptable?                          |               |                          |                    |  |                         |   |              |             |
| -area safe?                                    |               |                          |                    |  |                         |   |              |             |
| -other comments                                |               |                          |                    |  |                         |   |              |             |


**Groundwater Sampling Log**



P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                          |                    | Monitoring Well Information             |         |   |                                 |
|--------------------------------|---------------|--------------------------|--------------------|---|---------|---|---------------------------------|
| Terry Project ID               |               | 2230.8H                  |                    | Well ID                                 |         | 12719 - MW-11K  |                                 |
| SCDHEC Permit No.              |               | 12719                    |                    | Testing Parameters                      |         | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |                                 |
| Project Name                   |               | Hot Spot #3005           |                    |   |         |   |                                 |
| Date                           |               | 7/24/2017                |                    |   |         |   |                                 |
| Field Personnel                |               | MT                       |                    | Well Diameter                           |         | 2   | in                              |
| General Weather                |               | overcast                 |                    | Screened Interval                       |         | 22-32   | ft                              |
| Ambient Air Temperature        |               | 90                       |                    | Total Well Depth (nearest 0.1')         |         | 32.0  | ft                              |
| Quality Assurance              |               |                          |                    | Depth to Groundwater (nearest 0.01')    |         | 22.50   | ft                              |
| pH Meter<br>Serial Number      | Horiba U-52-2 | or                       | Conductivity Meter | Length of Water Column                  |         | 9.50  | ft                              |
|                                | VPTPGA3X      |                          | Serial Number      | 1 Casing Volume (0.163)                 |         | 1.54  | ft                              |
| Calibration Constant           | 4.00          | Calibration Constant     | Horiba U-52-2      | 3 Casing Volumes (0.489)                |         | 4.64  | gals                            |
| Calibration Constant           | 6.86          | Calibration Constant     | V3KNWUE9           | Total Volume Purged                     |         | 5.25  | gals                            |
| Calibration Constant           | 9.18          | Calibration Constant     |                    | Purge Technique Utilized (bailer) pump) |         |   |                                 |
| Last Calibration (time)        | 1415          | Last Verification (time) |                    | Well Yield                              |         | Low <input checked="" type="checkbox"/>               | Medium <input type="checkbox"/> |
|                                |               |                          |                    |   |         | High <input type="checkbox"/>                         | 32.0                            |
| Volume (gal)                   | INITIAL       | 1.75                     | 3.50               | 5.25                                    | /sample |   |                                 |
| Time (military)                | 1430          | 1433                     | 1436               | 1439                                    |         |   |                                 |
| pH (su)                        | 4.77          | 4.58                     | 4.58               | 4.54                                    |         |   |                                 |
| Spec Conductivity (mS/cm)      | 0.086         | 0.087                    | 0.087              | 0.086                                   |         |   |                                 |
| Water Temperature (°C)         | 25.3          | 23.2                     | 23.2               | 23.2                                    |         |   |                                 |
| Turbidity (NTU)                | 37.0          | 16.0                     | 16.2               | 15.9                                    |         |   |                                 |
| Dissolved Oxygen (mg/L)        | 3.63          | 5.04                     | 5.01               | 5.00                                    |         |   |                                 |
| Well Condition Information     |               |                          |                    | Additional Comments                     |         |   |                                 |
| -overall condition acceptable? |               |                          |                    |   |         |   |                                 |
| -well cap acceptable?          |               |                          |                    |   |         |   |                                 |
| -manhole and cover acceptable? |               |                          |                    |   |         |   |                                 |
| -well pad acceptable?          |               |                          |                    |   |         |   |                                 |
| -area safe?                    |               |                          |                    |   |         |   |                                 |
| -other comments                |               |                          |                    |   |         |   |                                 |

**Groundwater Sampling Log**

|   |         |                |       |  |        |   |    |   |  |
|---|---------|----------------|-------|--|--------|---|----|---|--|
|  <b>TERRY Environmental Services</b><br><small>CLIENTS FIRST ALWAYS</small> |         |                |       | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605   |        |   |    |   |  |
|   |         |                |       | <b>Site Specific Information</b>   |        |   |    | <b>Monitoring Well Information</b>  |  |
| Terry Project ID  |         | 2230.8H        |       | Well ID  |        | 12719 - MW-12   |    |   |  |
| SCDHEC Permit No.   |         | 12719          |       | Testing Parameters   |        | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB   |    |   |  |
| Project Name  |         | Hot Spot #3005 |       |  |        |   |    |   |  |
| Date  |         | 7/24/2017      |       |  |        |   |    |   |  |
| Field Personnel   |         | MT             |       | Well Diameter  |        | 2   | in | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |  |
| General Weather   |         | clear          |       | Screened Interval  |        | 20-30   | ft |   |  |
| Ambient Air Temperature   |         | 90°            |       | Total Well Depth (nearest 0.1')  |        | 50.0  | ft |   |  |
| <b>Quality Assurance</b>  |         |                |       | Depth to Groundwater (nearest 0.01')   |        | 21.10   | ft |   |  |
|   |         |                |       | pH Meter<br>Serial Number<br>Calibration Constant<br>Calibration Constant<br>Calibration Constant<br>Last Calibration (time) |        | Conductivity Meter<br>Serial Number<br>Calibration Constant<br>Calibration Constant<br>Calibration Constant<br>Last Verification (time) |    |   |  |
| Horiba U-52-2   |         | VPTPGA3X       |       | or   |        | Horiba U-52-2   |    | V3KNWUE9  |  |
| 4.00  |         | 6.86           |       | 9.18   |        | 4.49 mS/cm  |    | 53.0 mS/cm  |  |
| 1415  |         |                |       |  |        | 58.7 mS/cm  |    |   |  |
| Volume (gal)  | initial | 1.5            | 3.0   | 4.5  | Sample |   |    |   |  |
| Time (military)   | 1525    | 1528           | 1531  | 1535   |        |   |    |   |  |
| pH (su)   | 5.03    | 4.97           | 4.97  | 4.90   |        |   |    |   |  |
| Spec Conductivity (mS/cm)   | 0.080   | 0.081          | 0.081 | 0.081  |        |   |    |   |  |
| Water Temperature (°C)  | 26.2    | 28.0           | 25.4  | 25.4   |        |   |    |   |  |
| Turbidity (NTU)   | 5.2     | 49.7           | 48.1  | 40.3   |        |   |    |   |  |
| Dissolved Oxygen (mg/L)   | 10.09   | 5.93           | 5.90  | 5.89   |        |   |    |   |  |
| <b>Well Condition Information</b>   |         |                |       | <b>Additional Comments</b>   |        |   |    |   |  |
| -overall condition acceptable?  |         |                |       | yes  |        |   |    |   |  |
| -well cap acceptable?   |         |                |       |  |        |   |    |   |  |
| -manhole and cover acceptable?  |         |                |       |  |        |   |    |   |  |
| -well pad acceptable?   |         |                |       |  |        |   |    |   |  |
| -area safe?   |         |                |       |  |        |   |    |   |  |
| -other comments   |         |                |       |  |        |   |    |   |  |



**Groundwater Sampling Log**



P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                                     |               | Monitoring Well Information            |                         |   |                                 |
|--------------------------------|---------------|-------------------------------------|---------------|--|-------------------------|---|---------------------------------|
| Terry Project ID               |               | 2230.8H                             |               | Well ID                                |                         | 12719 - MW-13   |                                 |
| SCDHEC Permit No.              |               | 12719                               |               | Testing Parameters                     |                         | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |                                 |
| Project Name                   |               | Hot Spot #3005                      |               |  |                         |   |                                 |
| Date                           |               | 7/24/2017                           |               |  |                         |   |                                 |
| Field Personnel                |               | MT                                  |               | Well Diameter                          |                         | 2   | in                              |
| General Weather                |               | CLEAR                               |               | Screened Interval                      |                         | 17-27   | ft                              |
| Ambient Air Temperature        |               | 90°                                 |               | Total Well Depth (nearest 0.1')        |                         | 27.0  | ft                              |
| Quality Assurance              |               |                                     |               | Depth to Groundwater (nearest 0.01')   |                         | 21.91   | ft                              |
| pH Meter<br>Serial Number      | Horiba U-52-2 | Conductivity Meter<br>Serial Number | Horiba U-52-2 | Length of Water Column                 |                         | 5.09  | ft                              |
|                                | VPTPGA3X      |                                     | or            | V3KNWUE9                               | 1 Casing Volume (0.163) |   | 0.82                            |
| Calibration Constant           | 4.00          | Calibration Constant                | 4.49 mS/cm    | 3 Casing Volumes (0.489)               |                         | 2.48  | gals                            |
| Calibration Constant           | 6.86          | Calibration Constant                | 53.0 mS/cm    | Total Volume Purged                    |                         | 3.00  | gals                            |
| Calibration Constant           | 9.18          | Calibration Constant                | 58.7 mS/cm    | Purge Technique Utilized (boiler pump) |                         |   |                                 |
| Last Calibration (time)        | 1415          | Last Verification (time)            | —             | Well Yield                             |                         | Low <input checked="" type="checkbox"/>               | Medium <input type="checkbox"/> |
| Volume (gal)                   | initial       | 1.0                                 | 2.0           | 3.0                                    | /sample                 |   |                                 |
| Time (military)                | 1505          | 1508                                | 1511          | 1514                                   |                         |   |                                 |
| pH (su)                        | 4.48          | 4.45                                | 4.41          | 4.40                                   |                         |   |                                 |
| Spec Conductivity (mS/cm)      | 0.089         | 0.089                               | 0.089         | 0.090                                  |                         |   |                                 |
| Water Temperature (°C)         | 25.1          | 24.2                                | 24.3          | 24.3                                   |                         |   |                                 |
| Turbidity (NTU)                | 13.4          | 10.7                                | 10.2          | 10.7                                   |                         |   |                                 |
| Dissolved Oxygen (mg/L)        | 6.83          | 5.56                                | 5.59          | 5.52                                   |                         |   |                                 |
| Well Condition Information     |               |                                     |               | Additional Comments                    |                         |   |                                 |
| -overall condition acceptable? |               |                                     |               | yes one bit missing                    |                         |   |                                 |
| -well cap acceptable?          |               |                                     |               |  |                         |   |                                 |
| -manhole and cover acceptable? |               |                                     |               |  |                         |   |                                 |
| -well pad acceptable?          |               |                                     |               |  |                         |   |                                 |
| -area safe?                    |               |                                     |               |  |                         |   |                                 |
| -other comments                |               |                                     |               |  |                         |   |                                 |

**Groundwater Sampling Log**

|  |                              |  |
|--|------------------------------|--|
|  | TERRY Environmental Services | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |
|  | CLIENTS FIRST ALWAYS         |  |

| Site Specific Information                 |               |                          |               | Monitoring Well Information             |                         |   |  |
|---|---------------|--------------------------|---------------|---|-------------------------|---|--|
| Terry Project ID                          |               | 2230.8H                  |               | Well ID                                 |                         | 12719 - MW-14   |  |
| SCDHEC Permit No.                         |               | 12719                    |               | Testing Parameters                      |                         | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |  |
| Project Name                              |               | Hot Spot #3005           |               |   |                         |   |  |
| Date                                      |               | 7/5/2017                 |               |   |                         |   |  |
| Field Personnel                           |               | MT                       |               | Well Diameter                           |                         | 2   | in   |
| General Weather                           |               | cloudy                   |               | Screened Interval                       |                         | 2-31  | ft   |
| Ambient Air Temperature                   |               | 90°                      |               | Total Well Depth (nearest 0.1')         |                         | 31.0  | ft   |
| Quality Assurance                         |               |                          |               | Depth to Groundwater (nearest 0.01')    |                         |   |  |
| pH Meter                                  | Horiba U-52-2 | Conductivity Meter       | Horiba U-52-2 | Length of Water Column                  |                         | 12.03   | ft   |
|   | Serial Number |                          | Serial Number | V3KNWUE9                                | 1 Casing Volume (0.163) |   | 0.81                                       |
| Calibration Constant                      | VPTPGA3X      | or                       | 4.49 mS/cm    | 3 Casing Volumes (0.489)                |                         | 2.43  | gals                                       |
| Calibration Constant                      | 4.00          | Calibration Constant     | 53.0 mS/cm    | Total Volume Purged                     |                         | 3.0   | gals                                       |
| Calibration Constant                      | 6.86          | Calibration Constant     | 58.7 mS/cm    | Purge Technique Utilized (Chailer pump) |                         |   |  |
| Calibration Constant                      | 9.18          | Calibration Constant     |               | Well Yield                              |                         | Low   | <input checked="" type="checkbox"/> Medium |
| Last Calibration (time)                   | 0835          | Last Verification (time) |               |   |                         | High  | <input type="checkbox"/>                   |
| Volume (gal)                              | 1.0           | 2.0                      | 3.0           |   |                         |   |  |
| Time (military)                           | 1115          | 1118                     | 1121          |   |                         |   |  |
| pH (su)                                   | 5.93          | 5.87                     | 5.89          |   |                         |   |  |
| Spec Conductivity (mS/cm)                 | 0.138         | 0.137                    | 0.137         |   |                         |   |  |
| Water Temperature (°C)                    | 21.1          | 20.5                     | 20.5          |   |                         |   |  |
| Turbidity (NTU)                           | 0.7           | 1.38                     | 1.58          |   |                         |   |  |
| Dissolved Oxygen (mg/L)                   | 6.93          | 5.65                     | 5.63          |   |                         |   |  |
| Well Condition Information                |               |                          |               | Additional Comments                     |                         |   |  |
| -overall condition acceptable? <u>yes</u> |               |                          |               |   |                         |   |  |
| -well cap acceptable?                     |               |                          |               |   |                         |   |  |
| -manhole and cover acceptable?            |               |                          |               |   |                         |   |  |
| -well pad acceptable?                     |               |                          |               |   |                         |   |  |
| -area safe?                               |               |                          |               |   |                         |   |  |
| -other comments                           |               |                          |               |   |                         |   |  |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                          |                    | Monitoring Well Information             |   |   |      |
|--------------------------------|---------------|--------------------------|--------------------|---|---|---|------|
| Terry Project ID               |               | 2230.8H                  |                    | Well ID                                 |   | 12719 - MW-15   |      |
| SCDHEC Permit No.              |               | 12719                    |                    | Testing Parameters                      |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |      |
| Project Name                   |               | Hot Spot #3005           |                    |   |   |   |      |
| Date                           |               | 7/25/2017                |                    |   |   |   |      |
| Field Personnel                |               | NT                       |                    | Well Diameter                           |   | 2   | in   |
| General Weather                |               | Clear                    |                    | Screened Interval                       |   | 25-35   | ft   |
| Ambient Air Temperature        |               | 90°                      |                    | Total Well Depth (nearest 0.1')         |   | 35.0  | ft   |
| Quality Assurance              |               |                          |                    | Depth to Groundwater (nearest 0.01')    |   | 28.60   | ft   |
| pH Meter<br>Serial Number      | Horiba U-52-2 | or                       | Conductivity Meter | Horiba U-52-2                           | Length of Water Column  | 6.40  | ft   |
|                                | VPTGA3X       |                          | Serial Number      | V3KNWUE9                                | 1 Casing Volume (0.163)   | 1.04  | ft   |
| Calibration Constant           | 4.00          | Calibration Constant     | 4.49 mS/cm         | 3 Casing Volumes (0.489)                | 3.12  | gals  |      |
| Calibration Constant           | 6.86          | Calibration Constant     | 53.0 mS/cm         | Total Volume Purged                     | 3.75  | gals  |      |
| Calibration Constant           | 9.18          | Calibration Constant     | 58.7 mS/cm         | Purge Technique Utilized (battery pump) |   |   |      |
| Last Calibration (time)        | 0835          | Last Verification (time) |                    | Well Yield                              | Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   | 35.0 |
| Volume (gal)                   | 1.25          | 2.50                     | 3.75               | Sample                                  |   |   |      |
| Time (military)                | 1012          | 1015                     | 1018               | 1021                                    |   |   |      |
| pH (su)                        | 5.55          | 5.49                     | 5.48               | 5.49                                    |   |   |      |
| Spec Conductivity (mS/cm)      | 0.0008        | 0.0007                   | 0.0008             | 0.0002                                  |   |   |      |
| Water Temperature (°C)         | 25.7          | 25.1                     | 25.1               | 25.1                                    |   |   |      |
| Turbidity (NTU)                | 13.2          | 190                      | 192                | 7.09                                    |   |   |      |
| Dissolved Oxygen (mg/L)        | 7.71          | 7.70                     | 7.72               | 197                                     |   |   |      |
| Well Condition Information     |               |                          |                    | Additional Comments                     |   |   |      |
| -overall condition acceptable? |               |                          |                    | yes                                     |   |   |      |
| -well cap acceptable?          |               |                          |                    |   |   |   |      |
| -manhole and cover acceptable? |               |                          |                    |   |   |   |      |
| -well pad acceptable?          |               |                          |                    |   |   |   |      |
| -area safe?                    |               |                          |                    |   |   |   |      |
| -other comments                |               |                          |                    |   |   |   |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                                     |               | Monitoring Well Information          |                         |  |      |
|--------------------------------|---------------|-------------------------------------|---------------|--------------------------------------|-------------------------|--|------|
| Terry Project ID               |               | 2230.8H                             |               | Well ID                              |                         | 12719 - MW-10  |      |
| SCDHEC Permit No.              |               | 12719                               |               | Testing Parameters                   |                         | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB                                      |      |
| Project Name                   |               | Hot Spot #3005                      |               |                                      |                         |  |      |
| Date                           |               | 7/25/2017                           |               |                                      |                         |  |      |
| Field Personnel                |               | MT                                  |               | Well Diameter                        |                         | 2  | in   |
| General Weather                |               | cloudy                              |               | Screened Interval                    |                         | 28-38  | ft   |
| Ambient Air Temperature        |               | 90°                                 |               | Total Well Depth (nearest 0.1')      |                         | 38.0   | ft   |
| Quality Assurance              |               |                                     |               | Depth to Groundwater (nearest 0.01') |                         | 30.43  | ft   |
| pH Meter<br>Serial Number      | Horiba U-52-2 | Conductivity Meter<br>Serial Number | Horiba U-52-2 | Length of Water Column               |                         | 7.57   | ft   |
|                                | VPTPGA3X      |                                     | or            | V3KNWUE9                             | 1 Casing Volume (0.163) |  | 1.23 |
| Calibration Constant           | 4.00          | Calibration Constant                | 4.49 mS/cm    | 3 Casing Volumes (0.489)             |                         | 3.70   | gals |
| Calibration Constant           | 6.86          | Calibration Constant                | 53.0 mS/cm    | Total Volume Purged                  |                         | 375  | gals |
| Calibration Constant           | 9.18          | Calibration Constant                | 58.7 mS/cm    | Purge Technique Utilized             |                         | Butter pump  |      |
| Last Calibration (time)        | 0935          | Last Verification (time)            | -             | Well Yield                           |                         | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |      |
| Volume (gal)                   | initial       | 1.25                                | 2.50          | 3.75                                 | / 200                   |  |      |
| Time (military)                | 1044          | 1047                                | 1050          | 1053                                 |                         |  |      |
| pH (su)                        | 5.34          | 5.05                                | 5.00          | 5.00                                 |                         |  |      |
| Spec Conductivity (mS/cm)      | 0.150         | 0.107                               | 0.109         | 0.109                                |                         |  |      |
| Water Temperature (°C)         | 24.0          | 24.0                                | 24.0          | 24.0                                 |                         |  |      |
| Turbidity (NTU)                | 147           | 202                                 | 212           | 205                                  |                         |  |      |
| Dissolved Oxygen (mg/L)        | 5.05          | 2.18                                | 2.17          | 2.02                                 |                         |  |      |
| Well Condition Information     |               |                                     |               | Additional Comments                  |                         |  |      |
| -overall condition acceptable? |               |                                     |               | yes                                  |                         |  |      |
| -well cap acceptable?          |               |                                     |               |                                      |                         |  |      |
| -manhole and cover acceptable? |               |                                     |               |                                      |                         |  |      |
| -well pad acceptable?          |               |                                     |               |                                      |                         |  |      |
| -area safe?                    |               |                                     |               |                                      |                         |  |      |
| -other comments                |               |                                     |               | slight odor                          |                         |  |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                                     |               | Monitoring Well Information             |                         |   |       |        |
|--------------------------------|---------------|-------------------------------------|---------------|---|-------------------------|---|-------|--------|
| Terry Project ID               |               | 2230.8H                             |               | Well ID                                 |                         | 12719 - MW-10   |       |        |
| SCDHEC Permit No.              |               | 12719                               |               | Testing Parameters                      |                         | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB   |       |        |
| Project Name                   |               | Hot Spot #3005                      |               |   |                         |   |       |        |
| Date                           |               | 7/28/2017                           |               |   |                         |   |       |        |
| Field Personnel                |               | MT                                  |               | Well Diameter                           |                         | 2   | in    |        |
| General Weather                |               | Clear                               |               | Screened Interval                       |                         | 5-100   | ft    |        |
| Ambient Air Temperature        |               | 90°                                 |               | Total Well Depth (nearest 0.1')         |                         | 100.0   | ft    |        |
| Quality Assurance              |               |                                     |               | Depth to Groundwater (nearest 0.01')    |                         | 29.05   | ft    |        |
| pH Meter<br>Serial Number      | Horiba U-52-2 | Conductivity Meter<br>Serial Number | Horiba U-52-2 | Length of Water Column                  |                         | 37.95   | ft    |        |
|                                | VPTGA3X       |                                     | or            | V3KNWUE9                                | 1 Casing Volume (0.163) |   | 5.37  | ft     |
| Calibration Constant           | 4.00          | Calibration Constant                | 4.49 mS/cm    | 3 Casing Volumes (0.489)                |                         | 16.11   | gals  |        |
| Calibration Constant           | 6.86          | Calibration Constant                | 53.0 mS/cm    | Total Volume Purged                     |                         | 16.50   | gals  |        |
| Calibration Constant           | 9.18          | Calibration Constant                | 58.7 mS/cm    | Purge Technique Utilized (bailer, pump) |                         |   |       | 600    |
| Last Calibration (time)        | 0935          | Last Verification (time)            | 1235          | Well Yield                              |                         | Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |       |        |
| Volume (gal)                   | 11.00         | 2.75                                | 5.50          | 8.25                                    | 11.00                   | 13.75   | 16.50 | Kampel |
| Time (military)                | 1238          | 1243                                | 1244          | 1247                                    | 1250                    | 1253  | 1256  |        |
| pH (su)                        | 5.27          | 5.22                                | 5.25          | 5.14                                    | 5.08                    | 5.09  | 5.01  |        |
| Spec Conductivity (mS/cm)      | 0.072         | 0.009                               | 0.000         | 0.007                                   | 0.057                   | 0.057   | 0.057 |        |
| Water Temperature (°C)         | 25.70         | 25.1                                | 25.2          | 24.3                                    | 22.9                    | 22.9  | 22.9  |        |
| Turbidity (NTU)                | 0.2           | 1.42                                | 1.03          | 8.5                                     | 79.2                    | 70.5  | 70.4  |        |
| Dissolved Oxygen (mg/L)        | 10.11         | 8.91                                | 7.10          | 7.14                                    | 5.17                    | 5.15  | 5.11  |        |
| Well Condition Information     |               |                                     |               | Additional Comments                     |                         |   |       |        |
| -overall condition acceptable? |               |                                     |               | yes                                     |                         |   |       |        |
| -well cap acceptable?          |               |                                     |               | NO BOLTS                                |                         |   |       |        |
| -manhole and cover acceptable? |               |                                     |               | NO WELL TAG                             |                         |   |       |        |
| -well pad acceptable?          |               |                                     |               |   |                         |   |       |        |
| -area safe?                    |               |                                     |               |   |                         |   |       |        |
| -other comments                |               |                                     |               |   |                         |   |       |        |



**HORIBA U-52-2 DAILY CALIBRATION DATA SHEET**

Serial Number: ~~VWKAUMKJ~~ <sup>T13E334F</sup> <sub>V3KNWUE9</sub> Date/Time: 7/29/A <sub>1415</sub> Inspector: MT

Solution Manufacturer: ~~Aurical~~ <sup>Eastern Solutions</sup> Lot Number: 1703065 Expiration Date: 2/28/19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>    |
|--------------------------|---------------------------|--------------------|
| pH: 4.00                 | <u>4.01</u>               | ± <u>0.01</u>      |
| Conductivity: 4.49 mS/cm | <u>4.49</u> mS/cm         | ± <u>0.0</u> mS/cm |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± <u>0.0</u> NTU   |

| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--|---------------------------|-----------------|
| NIST-Traceable Thermometer: <u>20.3</u> °C | <u>20.3</u> °C            | ± <u>0.0</u> °C |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

HS #3005 2230.EH

---

---

---

---

---

---

---

---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: T13E334F  
V3KNWUE9 Date/Time: 7/24/17 Inspector: MT  
1015

|   |                            |                                 |
|---|----------------------------|---------------------------------|
| Solution Manufacturer: <u>Eastern Solutions</u> | Lot Number: <u>1703CWS</u> | Expiration Date: <u>2/28/17</u> |
| <u>Solution Value</u>                           | <u>Instrument Reading</u>  | <u>Accuracy</u>                 |
| pH: 4.00  | <u>4.03</u>                | $\pm 0.03$                      |
| Conductivity: 4.49 mS/cm                        | <u>4.51</u> mS/cm          | $\pm 0.02$ mS/cm                |
| Turbidity: 0.0 NTU                              | <u>0.0</u> NTU             | $\pm 0.0$ NTU                   |

|  |                           |                 |
|--|---------------------------|-----------------|
| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
| NIST-Traceable Thermometer: <u>29.3</u> °C | <u>29.3</u> °C            | $\pm 0.0$ °C    |

**QAPP Acceptance Criteria**

|                        |   |
|------------------------|---|
| <u>Field Parameter</u> | <u>Accuracy</u>   |
| Temperature            | $\pm 1^\circ\text{C}$ against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                                   |
| pH                     | $\pm 0.2$ pH units of stated buffer value                   |
| Turbidity              | 10% of each standard used                                   |

**Inspector's Maintenance Notes**

HS #3005 2230.811

---

---

---

---

---

---

---

---



**HORIBA U-52-2 DAILY CALIBRATION DATA SHEET**

Serial Number: T13E334F Date/Time: 7/25/19 Inspector: MT  
V3KNWUE9 0835

Solution Manufacturer: SAATCHI SUTHERLAND Lot Number: P03605 Expiration Date: 2/28/19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>     |
|--------------------------|---------------------------|---------------------|
| pH: 4.00                 | <u>4.03</u>               | ± <u>0.03</u>       |
| Conductivity: 4.49 mS/cm | <u>4.53</u> mS/cm         | ± <u>0.04</u> mS/cm |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± <u>0.0</u> NTU    |

| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--|---------------------------|-----------------|
| NIST-Traceable Thermometer: <u>26.2</u> °C | <u>26.2</u> °C            | ± <u>0.0</u> °C |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

HS #3005 2230.8H

---

---

---

---

---

---

---

---





**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: T13E334F  
V3KNWUE9 Date/Time: 7/25/17 Inspector: MAH  
1235

|   |                            |                                 |
|---|----------------------------|---------------------------------|
| Solution Manufacturer: <u>EASTERN SOLUTIONS</u> | Lot Number: <u>A703005</u> | Expiration Date: <u>2/28/17</u> |
| <u>Solution Value</u>                           | <u>Instrument Reading</u>  | <u>Accuracy</u>                 |
| pH: 4.00  | <u>4.05</u>                | $\pm 0.05$                      |
| Conductivity: 4.49 mS/cm                        | <u>4.51</u> mS/cm          | $\pm 0.02$ mS/cm                |
| Turbidity: 0.0 NTU                              | <u>0.0</u> NTU             | $\pm 0.0$ NTU                   |

|  |                           |                 |
|--|---------------------------|-----------------|
| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
| NIST-Traceable Thermometer: <u>27.7 °C</u> | <u>27.7 °C</u>            | $\pm 0.0 °C$    |

**QAPP Acceptance Criteria**

|                        |  |
|------------------------|--|
| <u>Field Parameter</u> | <u>Accuracy</u>                                  |
| Temperature            | $\pm 1 °C$ against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                        |
| pH                     | $\pm 0.2$ pH units of stated buffer value        |
| Turbidity              | 10% of each standard used                        |

**Inspector's Maintenance Notes**

HS #3005 2230.EH

---

---

---

---

---

---

---

---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: ~~VWKAUMKJ~~ <sup>T13E334F</sup> <sub>V3KNWUE9</sub> Date/Time: 7/25/17 <sub>1330</sub> Inspector: MT

Solution Manufacturer: <sup>EASTERN SOLUTIONS</sup> Aurical Lot Number: 1703105 Expiration Date: 2/28/19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--------------------------|---------------------------|-----------------|
| pH: 4.00                 | <u>4.03</u>               | ± 0.03          |
| Conductivity: 4.49 mS/cm | <u>4.55</u> mS/cm         | ± 0.06 mS/cm    |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± 0.0 NTU       |

| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--|---------------------------|-----------------|
| NIST-Traceable Thermometer: <u>28.8</u> °C | <u>28.8</u> °C            | ± 0.0 °C        |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

HS #3005 2230.8H

---



---



---



---



---



---

# SHEALY ENVIRONMENTAL SERVICES, INC.

---

## Report of Analysis

### Terry Environmental Services, Inc.

222 Varnfield Drive  
Suite F  
Summerville, SC 29483  
Attention: Kelly Cone

Project Name: HS #3005

Project Number: 2230.8H

Lot Number: **SG25076**

Date Completed: 07/28/2017

*Kelly M Nance*

08/03/2017 10:12 AM

Approved and released by:

Project Manager: Kelly M. Nance



The electronic signature above is the equivalent of a handwritten signature.  
This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

Shealy Environmental Services, Inc.  
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 [www.shealylab.com](http://www.shealylab.com)

# SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

## Case Narrative Terry Environmental Services, Inc. Lot Number: SG25076

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

### Volatiles

The matrix spike/matrix spike duplicate (MS/MSD) associated with sample -014 had ter-butyl formate recovered outside of the acceptance limits. The LCS was recovered within the required acceptance limits; therefore, this likely demonstrates a matrix effect.

Sample -016 was diluted 5x due to the sample matrix. The reporting limits have been raised accordingly.

### EDB/DBCP

The closing continuing calibration verification (CCV) associated with all samples had the surrogate recovered above the acceptance limits. There were no detections for this compound in the associated samples; therefore, data quality is not impacted.

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Sample Summary Terry Environmental Services, Inc. Lot Number: SG25076

| Sample Number | Sample ID      | Matrix  | Date Sampled    | Date Received |
|---------------|----------------|---------|-----------------|---------------|
| 001           | 12719 MW-2     | Aqueous | 07/25/2017 1227 | 07/25/2017    |
| 002           | 12719 MW-3R    | Aqueous | 07/25/2017 1314 | 07/25/2017    |
| 003           | 12719 MW-4     | Aqueous | 07/25/2017 0854 | 07/25/2017    |
| 004           | 12719 MW-5     | Aqueous | 07/25/2017 1147 | 07/25/2017    |
| 005           | 12719 MW-6     | Aqueous | 07/25/2017 1207 | 07/25/2017    |
| 006           | 12719 MW-7     | Aqueous | 07/25/2017 0954 | 07/25/2017    |
| 007           | 12719 MW-9     | Aqueous | 07/25/2017 0924 | 07/25/2017    |
| 008           | 12719 MW-10R   | Aqueous | 07/24/2017 1454 | 07/25/2017    |
| 009           | 12719 MW-11R   | Aqueous | 07/24/2017 1439 | 07/25/2017    |
| 010           | 12719 MW-12    | Aqueous | 07/24/2017 1535 | 07/25/2017    |
| 011           | 12719 MW-13    | Aqueous | 07/24/2017 1514 | 07/25/2017    |
| 012           | 12719 MW-14    | Aqueous | 07/25/2017 1123 | 07/25/2017    |
| 013           | 12719 MW-15    | Aqueous | 07/25/2017 1021 | 07/25/2017    |
| 014           | 12719 MW-16    | Aqueous | 07/25/2017 1053 | 07/25/2017    |
| 015           | 12719 MW1D     | Aqueous | 07/25/2017 1256 | 07/25/2017    |
| 016           | 12719 MW-2-DUP | Aqueous | 07/25/2017 1229 | 07/25/2017    |
| 017           | FB-1           | Aqueous | 07/24/2017 1405 | 07/25/2017    |
| 018           | FB-2           | Aqueous | 07/25/2017 0830 | 07/25/2017    |
| 019           | TB-1           | Aqueous | 07/24/2017      | 07/25/2017    |

(19 samples)

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Detection Summary Terry Environmental Services, Inc. Lot Number: SG25076

| Sample | Sample ID      | Matrix  | Parameter                   | Method | Result | Q | Units | Page |
|--------|----------------|---------|-----------------------------|--------|--------|---|-------|------|
| 001    | 12719 MW-2     | Aqueous | Benzene                     | 8260B  | 64     |   | ug/L  | 6    |
| 001    | 12719 MW-2     | Aqueous | Ethylbenzene                | 8260B  | 55     |   | ug/L  | 6    |
| 001    | 12719 MW-2     | Aqueous | Naphthalene                 | 8260B  | 68     |   | ug/L  | 6    |
| 001    | 12719 MW-2     | Aqueous | Toluene                     | 8260B  | 6.7    |   | ug/L  | 6    |
| 001    | 12719 MW-2     | Aqueous | Xylenes (total)             | 8260B  | 280    |   | ug/L  | 6    |
| 002    | 12719 MW-3R    | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 2700   |   | ug/L  | 7    |
| 002    | 12719 MW-3R    | Aqueous | Benzene                     | 8260B  | 3800   |   | ug/L  | 7    |
| 002    | 12719 MW-3R    | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 100    |   | ug/L  | 7    |
| 002    | 12719 MW-3R    | Aqueous | Ethylbenzene                | 8260B  | 270    |   | ug/L  | 7    |
| 002    | 12719 MW-3R    | Aqueous | Naphthalene                 | 8260B  | 43     | J | ug/L  | 7    |
| 002    | 12719 MW-3R    | Aqueous | Toluene                     | 8260B  | 140    |   | ug/L  | 7    |
| 002    | 12719 MW-3R    | Aqueous | Xylenes (total)             | 8260B  | 1500   |   | ug/L  | 7    |
| 004    | 12719 MW-5     | Aqueous | Benzene                     | 8260B  | 1500   |   | ug/L  | 9    |
| 004    | 12719 MW-5     | Aqueous | Ethylbenzene                | 8260B  | 73     |   | ug/L  | 9    |
| 004    | 12719 MW-5     | Aqueous | Toluene                     | 8260B  | 1500   |   | ug/L  | 9    |
| 004    | 12719 MW-5     | Aqueous | Xylenes (total)             | 8260B  | 1300   |   | ug/L  | 9    |
| 005    | 12719 MW-6     | Aqueous | Benzene                     | 8260B  | 1.7    |   | ug/L  | 10   |
| 005    | 12719 MW-6     | Aqueous | Ethylbenzene                | 8260B  | 0.45   | J | ug/L  | 10   |
| 005    | 12719 MW-6     | Aqueous | Methyl tertiary butyl ether | 8260B  | 2.1    |   | ug/L  | 10   |
| 005    | 12719 MW-6     | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 11     | J | ug/L  | 10   |
| 005    | 12719 MW-6     | Aqueous | Xylenes (total)             | 8260B  | 2.8    |   | ug/L  | 10   |
| 014    | 12719 MW-16    | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 1000   |   | ug/L  | 19   |
| 014    | 12719 MW-16    | Aqueous | tert-Amyl methyl ether      | 8260B  | 12     | J | ug/L  | 19   |
| 014    | 12719 MW-16    | Aqueous | Benzene                     | 8260B  | 1000   |   | ug/L  | 19   |
| 014    | 12719 MW-16    | Aqueous | Ethylbenzene                | 8260B  | 25     |   | ug/L  | 19   |
| 014    | 12719 MW-16    | Aqueous | Methyl tertiary butyl ether | 8260B  | 150    |   | ug/L  | 19   |
| 014    | 12719 MW-16    | Aqueous | Naphthalene                 | 8260B  | 17     | J | ug/L  | 19   |
| 014    | 12719 MW-16    | Aqueous | Toluene                     | 8260B  | 120    |   | ug/L  | 19   |
| 014    | 12719 MW-16    | Aqueous | Xylenes (total)             | 8260B  | 580    |   | ug/L  | 19   |
| 015    | 12719 MW1D     | Aqueous | Benzene                     | 8260B  | 0.43   | J | ug/L  | 20   |
| 015    | 12719 MW1D     | Aqueous | Naphthalene                 | 8260B  | 0.42   | J | ug/L  | 20   |
| 015    | 12719 MW1D     | Aqueous | Xylenes (total)             | 8260B  | 0.68   | J | ug/L  | 20   |
| 016    | 12719 MW-2-DUP | Aqueous | Benzene                     | 8260B  | 70     |   | ug/L  | 21   |
| 016    | 12719 MW-2-DUP | Aqueous | Ethylbenzene                | 8260B  | 59     |   | ug/L  | 21   |
| 016    | 12719 MW-2-DUP | Aqueous | Naphthalene                 | 8260B  | 64     |   | ug/L  | 21   |
| 016    | 12719 MW-2-DUP | Aqueous | Toluene                     | 8260B  | 7.3    |   | ug/L  | 21   |
| 016    | 12719 MW-2-DUP | Aqueous | Xylenes (total)             | 8260B  | 290    |   | ug/L  | 21   |

(37 detections)

Description: 12719 MW-2

Matrix: Aqueous

Date Sampled: 07/25/2017 1227

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 5        | 07/27/2017 1618 | ALL     |           | 47619 |

| Parameter                          | CAS Number       | Analytical Method | Result     | Q | LOQ        | DL         | Units       | Run      |
|------------------------------------|------------------|-------------------|------------|---|------------|------------|-------------|----------|
| tert-Amyl alcohol (TAA)            | 75-85-4          | 8260B             | ND         |   | 100        | 40         | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)      | 994-05-8         | 8260B             | ND         |   | 50         | 2.1        | ug/L        | 1        |
| <b>Benzene</b>                     | <b>71-43-2</b>   | <b>8260B</b>      | <b>64</b>  |   | <b>5.0</b> | <b>2.0</b> | <b>ug/L</b> | <b>1</b> |
| tert-Butyl formate (TBF)           | 762-75-4         | 8260B             | ND         |   | 25         | 10         | ug/L        | 1        |
| 1,2-Dichloroethane                 | 107-06-2         | 8260B             | ND         |   | 5.0        | 2.0        | ug/L        | 1        |
| Diisopropyl ether (IPE)            | 108-20-3         | 8260B             | ND         |   | 5.0        | 2.0        | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol             | 624-95-3         | 8260B             | ND         |   | 100        | 40         | ug/L        | 1        |
| Ethanol                            | 64-17-5          | 8260B             | ND         |   | 500        | 200        | ug/L        | 1        |
| <b>Ethylbenzene</b>                | <b>100-41-4</b>  | <b>8260B</b>      | <b>55</b>  |   | <b>5.0</b> | <b>2.0</b> | <b>ug/L</b> | <b>1</b> |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3         | 8260B             | ND         |   | 5.0        | 2.0        | ug/L        | 1        |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4        | 8260B             | ND         |   | 5.0        | 2.0        | ug/L        | 1        |
| <b>Naphthalene</b>                 | <b>91-20-3</b>   | <b>8260B</b>      | <b>68</b>  |   | <b>5.0</b> | <b>2.0</b> | <b>ug/L</b> | <b>1</b> |
| tert-butyl alcohol (TBA)           | 75-65-0          | 8260B             | ND         |   | 100        | 40         | ug/L        | 1        |
| <b>Toluene</b>                     | <b>108-88-3</b>  | <b>8260B</b>      | <b>6.7</b> |   | <b>5.0</b> | <b>2.0</b> | <b>ug/L</b> | <b>1</b> |
| <b>Xylenes (total)</b>             | <b>1330-20-7</b> | <b>8260B</b>      | <b>280</b> |   | <b>5.0</b> | <b>2.0</b> | <b>ug/L</b> | <b>1</b> |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 80               | 70-130            |
| Bromofluorobenzene    |   | 104              | 70-130            |
| Toluene-d8            |   | 96               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 07/27/2017 2336 | DAL1    | 07/27/2017 1336 | 47649 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.020 | 0.0049 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 100              | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-3R

Matrix: Aqueous

Date Sampled: 07/25/2017 1314

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 100      | 07/27/2017 1702 | ALL     |           | 47619 |

| Parameter                          | CAS Number       | Analytical Method | Result      | Q        | LOQ        | DL        | Units       | Run      |
|------------------------------------|------------------|-------------------|-------------|----------|------------|-----------|-------------|----------|
| tert-Amyl alcohol (TAA)            | 75-85-4          | 8260B             | 2700        |          | 2000       | 800       | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)      | 994-05-8         | 8260B             | ND          |          | 1000       | 42        | ug/L        | 1        |
| <b>Benzene</b>                     | <b>71-43-2</b>   | <b>8260B</b>      | <b>3800</b> |          | <b>100</b> | <b>40</b> | <b>ug/L</b> | <b>1</b> |
| tert-Butyl formate (TBF)           | 762-75-4         | 8260B             | ND          |          | 500        | 200       | ug/L        | 1        |
| 1,2-Dichloroethane                 | 107-06-2         | 8260B             | ND          |          | 100        | 40        | ug/L        | 1        |
| <b>Diisopropyl ether (IPE)</b>     | <b>108-20-3</b>  | <b>8260B</b>      | <b>100</b>  |          | <b>100</b> | <b>40</b> | <b>ug/L</b> | <b>1</b> |
| 3,3-Dimethyl-1-butanol             | 624-95-3         | 8260B             | ND          |          | 2000       | 800       | ug/L        | 1        |
| Ethanol                            | 64-17-5          | 8260B             | ND          |          | 10000      | 4000      | ug/L        | 1        |
| <b>Ethylbenzene</b>                | <b>100-41-4</b>  | <b>8260B</b>      | <b>270</b>  |          | <b>100</b> | <b>40</b> | <b>ug/L</b> | <b>1</b> |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3         | 8260B             | ND          |          | 100        | 40        | ug/L        | 1        |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4        | 8260B             | ND          |          | 100        | 40        | ug/L        | 1        |
| <b>Naphthalene</b>                 | <b>91-20-3</b>   | <b>8260B</b>      | <b>43</b>   | <b>J</b> | <b>100</b> | <b>40</b> | <b>ug/L</b> | <b>1</b> |
| tert-butyl alcohol (TBA)           | 75-65-0          | 8260B             | ND          |          | 2000       | 800       | ug/L        | 1        |
| <b>Toluene</b>                     | <b>108-88-3</b>  | <b>8260B</b>      | <b>140</b>  |          | <b>100</b> | <b>40</b> | <b>ug/L</b> | <b>1</b> |
| <b>Xylenes (total)</b>             | <b>1330-20-7</b> | <b>8260B</b>      | <b>1500</b> |          | <b>100</b> | <b>40</b> | <b>ug/L</b> | <b>1</b> |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 77               | 70-130            |
| Bromofluorobenzene    |   | 110              | 70-130            |
| Toluene-d8            |   | 99               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 07/28/2017 0008 | DAL1    | 07/27/2017 1336 | 47649 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.020 | 0.0049 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 63               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: 12719 MW-4

Matrix: Aqueous

Date Sampled: 07/25/2017 0854

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 07/27/2017 1216 | ALL     |           | 47619 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 78               | 70-130            |
| Bromofluorobenzene    |   | 101              | 70-130            |
| Toluene-d8            |   | 97               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 07/28/2017 0018 | DAL1    | 07/27/2017 1336 | 47649 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.020 | 0.0050 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 95               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-5

Matrix: Aqueous

Date Sampled: 07/25/2017 1147

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 50       | 07/27/2017 1724 | ALL     |           | 47619 |

| Parameter                          | CAS Number       | Analytical Method | Result      | Q | LOQ       | DL        | Units       | Run      |
|------------------------------------|------------------|-------------------|-------------|---|-----------|-----------|-------------|----------|
| tert-Amyl alcohol (TAA)            | 75-85-4          | 8260B             | ND          |   | 1000      | 400       | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)      | 994-05-8         | 8260B             | ND          |   | 500       | 21        | ug/L        | 1        |
| <b>Benzene</b>                     | <b>71-43-2</b>   | <b>8260B</b>      | <b>1500</b> |   | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |
| tert-Butyl formate (TBF)           | 762-75-4         | 8260B             | ND          |   | 250       | 100       | ug/L        | 1        |
| 1,2-Dichloroethane                 | 107-06-2         | 8260B             | ND          |   | 50        | 20        | ug/L        | 1        |
| Diisopropyl ether (IPE)            | 108-20-3         | 8260B             | ND          |   | 50        | 20        | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol             | 624-95-3         | 8260B             | ND          |   | 1000      | 400       | ug/L        | 1        |
| Ethanol                            | 64-17-5          | 8260B             | ND          |   | 5000      | 2000      | ug/L        | 1        |
| <b>Ethylbenzene</b>                | <b>100-41-4</b>  | <b>8260B</b>      | <b>73</b>   |   | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3         | 8260B             | ND          |   | 50        | 20        | ug/L        | 1        |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4        | 8260B             | ND          |   | 50        | 20        | ug/L        | 1        |
| Naphthalene                        | 91-20-3          | 8260B             | ND          |   | 50        | 20        | ug/L        | 1        |
| tert-butyl alcohol (TBA)           | 75-65-0          | 8260B             | ND          |   | 1000      | 400       | ug/L        | 1        |
| <b>Toluene</b>                     | <b>108-88-3</b>  | <b>8260B</b>      | <b>1500</b> |   | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |
| <b>Xylenes (total)</b>             | <b>1330-20-7</b> | <b>8260B</b>      | <b>1300</b> |   | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 77               | 70-130            |
| Bromofluorobenzene    |   | 109              | 70-130            |
| Toluene-d8            |   | 98               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 07/28/2017 0029 | DAL1    | 07/27/2017 1336 | 47649 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.020 | 0.0049 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 80               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-6

Matrix: Aqueous

Date Sampled: 07/25/2017 1207

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 07/27/2017 1238 | ALL     |           | 47619 |

| Parameter                                 | CAS Number       | Analytical Method | Result      | Q        | LOQ        | DL          | Units       | Run      |
|---|------------------|-------------------|-------------|----------|------------|-------------|-------------|----------|
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | ND          |          | 20         | 8.0         | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND          |          | 10         | 0.42        | ug/L        | 1        |
| <b>Benzene</b>                            | <b>71-43-2</b>   | <b>8260B</b>      | <b>1.7</b>  |          | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND          |          | 5.0        | 2.0         | ug/L        | 1        |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| Diisopropyl ether (IPE)                   | 108-20-3         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND          |          | 20         | 8.0         | ug/L        | 1        |
| Ethanol                                   | 64-17-5          | 8260B             | ND          |          | 100        | 40          | ug/L        | 1        |
| <b>Ethylbenzene</b>                       | <b>100-41-4</b>  | <b>8260B</b>      | <b>0.45</b> | <b>J</b> | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>2.1</b>  |          | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Naphthalene                               | 91-20-3          | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| <b>tert-butyl alcohol (TBA)</b>           | <b>75-65-0</b>   | <b>8260B</b>      | <b>11</b>   | <b>J</b> | <b>20</b>  | <b>8.0</b>  | <b>ug/L</b> | <b>1</b> |
| Toluene                                   | 108-88-3         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| <b>Xylenes (total)</b>                    | <b>1330-20-7</b> | <b>8260B</b>      | <b>2.8</b>  |          | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 79               | 70-130            |
| Bromofluorobenzene    |   | 104              | 70-130            |
| Toluene-d8            |   | 99               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 07/28/2017 0040 | DAL1    | 07/27/2017 1336 | 47649 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.020 | 0.0050 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 92               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-7

Matrix: Aqueous

Date Sampled: 07/25/2017 0954

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 07/27/2017 1300 | ALL     |           | 47619 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 79               | 70-130            |
| Bromofluorobenzene    |   | 100              | 70-130            |
| Toluene-d8            |   | 96               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 07/28/2017 0051 | DAL1    | 07/27/2017 1336 | 47649 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.020 | 0.0050 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 99               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-9

Matrix: Aqueous

Date Sampled: 07/25/2017 0924

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 07/27/2017 1322 | ALL     |           | 47619 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 78               | 70-130            |
| Bromofluorobenzene    |   | 100              | 70-130            |
| Toluene-d8            |   | 97               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 07/28/2017 0101 | DAL1    | 07/27/2017 1336 | 47649 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.020 | 0.0049 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 95               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-10R

Matrix: Aqueous

Date Sampled: 07/24/2017 1454

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 07/27/2017 1344 | ALL     |           | 47619 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 79               | 70-130            |
| Bromofluorobenzene    |   | 105              | 70-130            |
| Toluene-d8            |   | 100              | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 07/28/2017 0112 | DAL1    | 07/27/2017 1336 | 47649 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.0048 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 92               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-11R

Matrix: Aqueous

Date Sampled: 07/24/2017 1439

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 07/27/2017 1406 | ALL     |           | 47619 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 80               | 70-130            |
| Bromofluorobenzene    |   | 98               | 70-130            |
| Toluene-d8            |   | 96               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 07/28/2017 0123 | DAL1    | 07/27/2017 1336 | 47649 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.020 | 0.0049 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 95               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-12

Matrix: Aqueous

Date Sampled: 07/24/2017 1535

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 07/27/2017 1428 | ALL     |           | 47619 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 80               | 70-130            |
| Bromofluorobenzene    |   | 105              | 70-130            |
| Toluene-d8            |   | 98               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 07/28/2017 0133 | DAL1    | 07/27/2017 1336 | 47649 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.020 | 0.0049 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 93               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: 12719 MW-13

Matrix: Aqueous

Date Sampled: 07/24/2017 1514

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 07/27/2017 1450 | ALL     |           | 47619 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 80               | 70-130            |
| Bromofluorobenzene    |   | 102              | 70-130            |
| Toluene-d8            |   | 99               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 07/28/2017 0144 | DAL1    | 07/27/2017 1336 | 47649 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.020 | 0.0049 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 94               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-14

Matrix: Aqueous

Date Sampled: 07/25/2017 1123

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 07/27/2017 1512 | ALL     |           | 47619 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 80               | 70-130            |
| Bromofluorobenzene    |   | 104              | 70-130            |
| Toluene-d8            |   | 99               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 07/28/2017 0155 | DAL1    | 07/27/2017 1336 | 47649 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.020 | 0.0049 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 102              | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-15

Matrix: Aqueous

Date Sampled: 07/25/2017 1021

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 07/27/2017 1534 | ALL     |           | 47619 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 79               | 70-130            |
| Bromofluorobenzene    |   | 101              | 70-130            |
| Toluene-d8            |   | 96               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 07/28/2017 0205 | DAL1    | 07/27/2017 1336 | 47649 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.0049 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 97               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-16

Matrix: Aqueous

Date Sampled: 07/25/2017 1053

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 20                | 07/27/2017 1747 | ALL     |           | 47619 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | 1000              |                 | 400     | 160       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | 12                | J               | 200     | 8.4       | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | 1000              |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 400     | 160       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 2000    | 800       | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | 25                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | 150               |                 | 20      | 8.0       | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | 17                | J               | 20      | 8.0       | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 400     | 160       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | 120               |                 | 20      | 8.0       | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | 580               |                 | 20      | 8.0       | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 76                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 111               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 97                | 70-130            |                 |         |           |       |     |  |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|-------|-----|--|
| 1                         | 8011        | 8011              | 1                 | 07/28/2017 0216 | DAL1    | 07/27/2017 1336 | 47649 |     |  |
| Parameter                 | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL              | Units | Run |  |
| 1,2-Dibromoethane (EDB)   | 106-93-4    | 8011              | ND                |                 | 0.020   | 0.0049          | ug/L  | 1   |  |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |       |     |  |
| 1,1,1,2-Tetrachloroethane |             | 73                | 57-137            |                 |         |                 |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW1D

Matrix: Aqueous

Date Sampled: 07/25/2017 1256

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 07/27/2017 1556 | ALL     |           | 47619 |

| Parameter                          | CAS Number       | Analytical Method | Result      | Q        | LOQ        | DL          | Units       | Run      |
|------------------------------------|------------------|-------------------|-------------|----------|------------|-------------|-------------|----------|
| tert-Amyl alcohol (TAA)            | 75-85-4          | 8260B             | ND          |          | 20         | 8.0         | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)      | 994-05-8         | 8260B             | ND          |          | 10         | 0.42        | ug/L        | 1        |
| <b>Benzene</b>                     | <b>71-43-2</b>   | <b>8260B</b>      | <b>0.43</b> | <b>J</b> | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| tert-Butyl formate (TBF)           | 762-75-4         | 8260B             | ND          |          | 5.0        | 2.0         | ug/L        | 1        |
| 1,2-Dichloroethane                 | 107-06-2         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| Diisopropyl ether (IPE)            | 108-20-3         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol             | 624-95-3         | 8260B             | ND          |          | 20         | 8.0         | ug/L        | 1        |
| Ethanol                            | 64-17-5          | 8260B             | ND          |          | 100        | 40          | ug/L        | 1        |
| Ethylbenzene                       | 100-41-4         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4        | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| <b>Naphthalene</b>                 | <b>91-20-3</b>   | <b>8260B</b>      | <b>0.42</b> | <b>J</b> | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| tert-butyl alcohol (TBA)           | 75-65-0          | 8260B             | ND          |          | 20         | 8.0         | ug/L        | 1        |
| Toluene                            | 108-88-3         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| <b>Xylenes (total)</b>             | <b>1330-20-7</b> | <b>8260B</b>      | <b>0.68</b> | <b>J</b> | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 78               | 70-130            |
| Bromofluorobenzene    |   | 98               | 70-130            |
| Toluene-d8            |   | 96               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 07/28/2017 0226 | DAL1    | 07/27/2017 1336 | 47649 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.020 | 0.0049 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 92               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-2-DUP

Matrix: Aqueous

Date Sampled: 07/25/2017 1229

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 5        | 07/27/2017 1640 | ALL     |           | 47619 |

| Parameter                          | CAS Number       | Analytical Method | Result     | Q | LOQ        | DL         | Units       | Run      |
|------------------------------------|------------------|-------------------|------------|---|------------|------------|-------------|----------|
| tert-Amyl alcohol (TAA)            | 75-85-4          | 8260B             | ND         |   | 100        | 40         | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)      | 994-05-8         | 8260B             | ND         |   | 50         | 2.1        | ug/L        | 1        |
| <b>Benzene</b>                     | <b>71-43-2</b>   | <b>8260B</b>      | <b>70</b>  |   | <b>5.0</b> | <b>2.0</b> | <b>ug/L</b> | <b>1</b> |
| tert-Butyl formate (TBF)           | 762-75-4         | 8260B             | ND         |   | 25         | 10         | ug/L        | 1        |
| 1,2-Dichloroethane                 | 107-06-2         | 8260B             | ND         |   | 5.0        | 2.0        | ug/L        | 1        |
| Diisopropyl ether (IPE)            | 108-20-3         | 8260B             | ND         |   | 5.0        | 2.0        | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol             | 624-95-3         | 8260B             | ND         |   | 100        | 40         | ug/L        | 1        |
| Ethanol                            | 64-17-5          | 8260B             | ND         |   | 500        | 200        | ug/L        | 1        |
| <b>Ethylbenzene</b>                | <b>100-41-4</b>  | <b>8260B</b>      | <b>59</b>  |   | <b>5.0</b> | <b>2.0</b> | <b>ug/L</b> | <b>1</b> |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3         | 8260B             | ND         |   | 5.0        | 2.0        | ug/L        | 1        |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4        | 8260B             | ND         |   | 5.0        | 2.0        | ug/L        | 1        |
| <b>Naphthalene</b>                 | <b>91-20-3</b>   | <b>8260B</b>      | <b>64</b>  |   | <b>5.0</b> | <b>2.0</b> | <b>ug/L</b> | <b>1</b> |
| tert-butyl alcohol (TBA)           | 75-65-0          | 8260B             | ND         |   | 100        | 40         | ug/L        | 1        |
| <b>Toluene</b>                     | <b>108-88-3</b>  | <b>8260B</b>      | <b>7.3</b> |   | <b>5.0</b> | <b>2.0</b> | <b>ug/L</b> | <b>1</b> |
| <b>Xylenes (total)</b>             | <b>1330-20-7</b> | <b>8260B</b>      | <b>290</b> |   | <b>5.0</b> | <b>2.0</b> | <b>ug/L</b> | <b>1</b> |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 78               | 70-130            |
| Bromofluorobenzene    |   | 113              | 70-130            |
| Toluene-d8            |   | 97               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 07/28/2017 0237 | DAL1    | 07/27/2017 1336 | 47649 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.020 | 0.0050 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 87               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: FB-1

Matrix: Aqueous

Date Sampled: 07/24/2017 1405

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 07/26/2017 1313 | BWS     |           | 47540 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 100              | 70-130            |
| Bromofluorobenzene    |   | 107              | 70-130            |
| Toluene-d8            |   | 101              | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 07/28/2017 0248 | DAL1    | 07/27/2017 1336 | 47649 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.020 | 0.0049 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 67               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: FB-2

Matrix: Aqueous

Date Sampled: 07/25/2017 0830

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 07/26/2017 1337 | BWS     |           | 47540 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 105              | 70-130            |
| Bromofluorobenzene    |   | 106              | 70-130            |
| Toluene-d8            |   | 102              | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 07/28/2017 0259 | DAL1    | 07/27/2017 1336 | 47649 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.020 | 0.0049 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 96               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: TB-1

Matrix: Aqueous

Date Sampled: 07/24/2017

Date Received: 07/25/2017

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 07/27/2017 1048 | ALL     |           | 47619 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 81               | 70-130            |
| Bromofluorobenzene    |   | 101              | 70-130            |
| Toluene-d8            |   | 97               | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## QC Summary

## Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ47540-001

Matrix: Aqueous

Batch: 47540

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Result | Q | Dil | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|---|-----|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |   | 1   | 20  | 8.0  | ug/L  | 07/26/2017 1053 |
| tert-Amyl methyl ether (TAME)      | ND     |   | 1   | 10  | 0.42 | ug/L  | 07/26/2017 1053 |
| Benzene                            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 07/26/2017 1053 |
| tert-Butyl formate (TBF)           | ND     |   | 1   | 5.0 | 2.0  | ug/L  | 07/26/2017 1053 |
| 1,2-Dichloroethane                 | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 07/26/2017 1053 |
| Diisopropyl ether (IPE)            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 07/26/2017 1053 |
| 3,3-Dimethyl-1-butanol             | ND     |   | 1   | 20  | 8.0  | ug/L  | 07/26/2017 1053 |
| Ethanol                            | ND     |   | 1   | 100 | 40   | ug/L  | 07/26/2017 1053 |
| Ethylbenzene                       | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 07/26/2017 1053 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 07/26/2017 1053 |
| Methyl tertiary butyl ether (MTBE) | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 07/26/2017 1053 |
| Naphthalene                        | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 07/26/2017 1053 |
| tert-butyl alcohol (TBA)           | ND     |   | 1   | 20  | 8.0  | ug/L  | 07/26/2017 1053 |
| Toluene                            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 07/26/2017 1053 |
| Xylenes (total)                    | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 07/26/2017 1053 |

| Surrogate             | Q | % Rec | Acceptance Limit |
|-----------------------|---|-------|------------------|
| 1,2-Dichloroethane-d4 |   | 104   | 70-130           |
| Bromofluorobenzene    |   | 105   | 70-130           |
| Toluene-d8            |   | 102   | 70-130           |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ47540-002

Matrix: Aqueous

Batch: 47540

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 1200          |   | 1   | 119   | 70-130      | 07/26/2017 0948 |
| tert-Amyl methyl ether (TAME)      | 50                  | 54            |   | 1   | 108   | 70-130      | 07/26/2017 0948 |
| Benzene                            | 50                  | 50            |   | 1   | 101   | 70-130      | 07/26/2017 0948 |
| tert-Butyl formate (TBF)           | 250                 | 280           |   | 1   | 113   | 70-130      | 07/26/2017 0948 |
| 1,2-Dichloroethane                 | 50                  | 57            |   | 1   | 114   | 70-130      | 07/26/2017 0948 |
| Diisopropyl ether (IPE)            | 50                  | 52            |   | 1   | 103   | 70-130      | 07/26/2017 0948 |
| 3,3-Dimethyl-1-butanol             | 1000                | 1100          |   | 1   | 110   | 60-140      | 07/26/2017 0948 |
| Ethanol                            | 5000                | 5600          |   | 1   | 112   | 60-140      | 07/26/2017 0948 |
| Ethylbenzene                       | 50                  | 50            |   | 1   | 100   | 70-130      | 07/26/2017 0948 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 54            |   | 1   | 107   | 70-130      | 07/26/2017 0948 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 50            |   | 1   | 99    | 70-130      | 07/26/2017 0948 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ47540-002

Matrix: Aqueous

Batch#47540

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|--------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| Naphthalene              | 50                  | 48            |                  | 1   | 96    | 70-130      | 07/26/2017 0948 |
| tert-butyl alcohol (TBA) | 1000                | 1200          |                  | 1   | 120   | 70-130      | 07/26/2017 0948 |
| Toluene                  | 50                  | 50            |                  | 1   | 101   | 70-130      | 07/26/2017 0948 |
| Xylenes (total)          | 100                 | 100           |                  | 1   | 103   | 70-130      | 07/26/2017 0948 |
| Surrogate                | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4    |                     | 99            | 70-130           |     |       |             |                 |
| Bromofluorobenzene       |                     | 105           | 70-130           |     |       |             |                 |
| Toluene-d8               |                     | 98            | 70-130           |     |       |             |                 |

## Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ47619-001

Matrix: Aqueous

Batch#47619

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |       | 1                | 20  | 8.0  | ug/L  | 07/27/2017 1010 |
| tert-Amyl methyl ether (TAME)      | ND     |       | 1                | 10  | 0.42 | ug/L  | 07/27/2017 1010 |
| Benzene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 07/27/2017 1010 |
| tert-Butyl formate (TBF)           | ND     |       | 1                | 5.0 | 2.0  | ug/L  | 07/27/2017 1010 |
| 1,2-Dichloroethane                 | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 07/27/2017 1010 |
| Diisopropyl ether (IPE)            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 07/27/2017 1010 |
| 3,3-Dimethyl-1-butanol             | ND     |       | 1                | 20  | 8.0  | ug/L  | 07/27/2017 1010 |
| Ethanol                            | ND     |       | 1                | 100 | 40   | ug/L  | 07/27/2017 1010 |
| Ethylbenzene                       | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 07/27/2017 1010 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 07/27/2017 1010 |
| Methyl tertiary butyl ether (MTBE) | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 07/27/2017 1010 |
| Naphthalene                        | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 07/27/2017 1010 |
| tert-butyl alcohol (TBA)           | ND     |       | 1                | 20  | 8.0  | ug/L  | 07/27/2017 1010 |
| Toluene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 07/27/2017 1010 |
| Xylenes (total)                    | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 07/27/2017 1010 |
| Surrogate                          | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4              |        | 79    | 70-130           |     |      |       |                 |
| Bromofluorobenzene                 |        | 100   | 70-130           |     |      |       |                 |
| Toluene-d8                         |        | 96    | 70-130           |     |      |       |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ47619-002

Matrix: Aqueous

Batch#47619

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 800           |                  | 1   | 80    | 70-130      | 07/27/2017 0913 |
| tert-Amyl methyl ether (TAME)      | 50                  | 46            |                  | 1   | 93    | 70-130      | 07/27/2017 0913 |
| Benzene                            | 50                  | 47            |                  | 1   | 93    | 70-130      | 07/27/2017 0913 |
| tert-Butyl formate (TBF)           | 250                 | 210           |                  | 1   | 83    | 70-130      | 07/27/2017 0913 |
| 1,2-Dichloroethane                 | 50                  | 47            |                  | 1   | 94    | 70-130      | 07/27/2017 0913 |
| Diisopropyl ether (IPE)            | 50                  | 43            |                  | 1   | 86    | 70-130      | 07/27/2017 0913 |
| 3,3-Dimethyl-1-butanol             | 1000                | 950           |                  | 1   | 95    | 60-140      | 07/27/2017 0913 |
| Ethanol                            | 5000                | 3800          |                  | 1   | 76    | 60-140      | 07/27/2017 0913 |
| Ethylbenzene                       | 50                  | 54            |                  | 1   | 107   | 70-130      | 07/27/2017 0913 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 42            |                  | 1   | 84    | 70-130      | 07/27/2017 0913 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 42            |                  | 1   | 84    | 70-130      | 07/27/2017 0913 |
| Naphthalene                        | 50                  | 54            |                  | 1   | 109   | 70-130      | 07/27/2017 0913 |
| tert-butyl alcohol (TBA)           | 1000                | 820           |                  | 1   | 82    | 70-130      | 07/27/2017 0913 |
| Toluene                            | 50                  | 53            |                  | 1   | 107   | 70-130      | 07/27/2017 0913 |
| Xylenes (total)                    | 100                 | 110           |                  | 1   | 108   | 70-130      | 07/27/2017 0913 |
| Surrogate                          | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4              |                     | 81            | 70-130           |     |       |             |                 |
| Bromofluorobenzene                 |                     | 107           | 70-130           |     |       |             |                 |
| Toluene-d8                         |                     | 97            | 70-130           |     |       |             |                 |

## Volatile Organic Compounds by GC/MS - MS

Sample ID: SG25076-014MS

Matrix: Aqueous

Batch#47619

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                 | 20000               | 17000         |   | 20  | 82    | 70-130      | 07/27/2017 1809 |
| tert-Amyl methyl ether (TAME)      | 12                   | 1000                | 890           |   | 20  | 88    | 70-130      | 07/27/2017 1809 |
| Benzene                            | 1000                 | 1000                | 1900          |   | 20  | 94    | 70-130      | 07/27/2017 1809 |
| tert-Butyl formate (TBF)           | ND                   | 5000                | 2200          | N | 20  | 44    | 70-130      | 07/27/2017 1809 |
| 1,2-Dichloroethane                 | ND                   | 1000                | 940           |   | 20  | 94    | 70-130      | 07/27/2017 1809 |
| Diisopropyl ether (IPE)            | ND                   | 1000                | 860           |   | 20  | 86    | 70-130      | 07/27/2017 1809 |
| 3,3-Dimethyl-1-butanol             | ND                   | 20000               | 18000         |   | 20  | 90    | 60-140      | 07/27/2017 1809 |
| Ethanol                            | ND                   | 100000              | 62000         |   | 20  | 62    | 60-140      | 07/27/2017 1809 |
| Ethylbenzene                       | 25                   | 1000                | 1100          |   | 20  | 105   | 70-130      | 07/27/2017 1809 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 1000                | 760           |   | 20  | 76    | 70-130      | 07/27/2017 1809 |
| Methyl tertiary butyl ether (MTBE) | 150                  | 1000                | 930           |   | 20  | 78    | 70-130      | 07/27/2017 1809 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MS

Sample ID: SG25076-014MS

Matrix: Aqueous

Batch#47619

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|--------------------------|----------------------|---------------------|------------------|---|-----|-------|-------------|-----------------|
| Naphthalene              | 17                   | 1000                | 1000             |   | 20  | 103   | 70-130      | 07/27/2017 1809 |
| tert-butyl alcohol (TBA) | ND                   | 20000               | 18000            |   | 20  | 88    | 70-130      | 07/27/2017 1809 |
| Toluene                  | 120                  | 1000                | 1200             |   | 20  | 105   | 70-130      | 07/27/2017 1809 |
| Xylenes (total)          | 580                  | 2000                | 2700             |   | 20  | 108   | 70-130      | 07/27/2017 1809 |
| Surrogate                | Q                    | % Rec               | Acceptance Limit |   |     |       |             |                 |
| 1,2-Dichloroethane-d4    |                      | 76                  | 70-130           |   |     |       |             |                 |
| Bromofluorobenzene       |                      | 106                 | 70-130           |   |     |       |             |                 |
| Toluene-d8               |                      | 93                  | 70-130           |   |     |       |             |                 |

## Volatile Organic Compounds by GC/MS - MSD

Sample ID: SG25076-014MD

Matrix: Aqueous

Batch#47619

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|------------------|---|-----|-------|-------|-------------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                 | 20000               | 18000            |   | 20  | 86    | 4.1   | 70-130      | 20          | 07/27/2017 1831 |
| tert-Amyl methyl ether (TAME)      | 12                   | 1000                | 920              |   | 20  | 91    | 3.3   | 70-130      | 20          | 07/27/2017 1831 |
| Benzene                            | 1000                 | 1000                | 2000             |   | 20  | 95    | 0.68  | 70-130      | 20          | 07/27/2017 1831 |
| tert-Butyl formate (TBF)           | ND                   | 5000                | 2200             | N | 20  | 44    | 0.75  | 70-130      | 20          | 07/27/2017 1831 |
| 1,2-Dichloroethane                 | ND                   | 1000                | 980              |   | 20  | 98    | 4.4   | 70-130      | 20          | 07/27/2017 1831 |
| Diisopropyl ether (IPE)            | ND                   | 1000                | 870              |   | 20  | 87    | 1.6   | 70-130      | 20          | 07/27/2017 1831 |
| 3,3-Dimethyl-1-butanol             | ND                   | 20000               | 19000            |   | 20  | 95    | 5.7   | 60-140      | 20          | 07/27/2017 1831 |
| Ethanol                            | ND                   | 100000              | 64000            |   | 20  | 64    | 2.5   | 60-140      | 20          | 07/27/2017 1831 |
| Ethylbenzene                       | 25                   | 1000                | 1100             |   | 20  | 111   | 5.9   | 70-130      | 20          | 07/27/2017 1831 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 1000                | 770              |   | 20  | 77    | 0.96  | 70-130      | 20          | 07/27/2017 1831 |
| Methyl tertiary butyl ether (MTBE) | 150                  | 1000                | 930              |   | 20  | 78    | 0.45  | 70-130      | 20          | 07/27/2017 1831 |
| Naphthalene                        | 17                   | 1000                | 1100             |   | 20  | 107   | 3.3   | 70-130      | 20          | 07/27/2017 1831 |
| tert-butyl alcohol (TBA)           | ND                   | 20000               | 18000            |   | 20  | 90    | 2.9   | 70-130      | 20          | 07/27/2017 1831 |
| Toluene                            | 120                  | 1000                | 1200             |   | 20  | 109   | 3.4   | 70-130      | 20          | 07/27/2017 1831 |
| Xylenes (total)                    | 580                  | 2000                | 2800             |   | 20  | 113   | 3.2   | 70-130      | 20          | 07/27/2017 1831 |
| Surrogate                          | Q                    | % Rec               | Acceptance Limit |   |     |       |       |             |             |                 |
| 1,2-Dichloroethane-d4              |                      | 77                  | 70-130           |   |     |       |       |             |             |                 |
| Bromofluorobenzene                 |                      | 112                 | 70-130           |   |     |       |       |             |             |                 |
| Toluene-d8                         |                      | 94                  | 70-130           |   |     |       |       |             |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## EDB & DBCP by Microextraction - MB

Sample ID: SQ47649-001

Matrix: Aqueous

Batch: 47649

Prep Method: 8011

Analytical Method: 8011

Prep Date: 07/27/2017 1336

| Parameter                 | Result | Q     | Dil              | LOQ   | DL     | Units | Analysis Date   |
|---------------------------|--------|-------|------------------|-------|--------|-------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND     |       | 1                | 0.020 | 0.0050 | ug/L  | 07/27/2017 2314 |
| Surrogate                 | Q      | % Rec | Acceptance Limit |       |        |       |                 |
| 1,1,1,2-Tetrachloroethane |        | 104   | 57-137           |       |        |       |                 |

## EDB & DBCP by Microextraction - LCS

Sample ID: SQ47649-002

Matrix: Aqueous

Batch: 47649

Prep Method: 8011

Analytical Method: 8011

Prep Date: 07/27/2017 1336

| Parameter                 | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|---------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| 1,2-Dibromoethane (EDB)   | 0.25                | 0.24          |                  | 1   | 96    | 60-140      | 07/27/2017 2325 |
| Surrogate                 | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,1,1,2-Tetrachloroethane |                     | 102           | 57-137           |     |       |             |                 |

## EDB & DBCP by Microextraction - MS

Sample ID: SG25076-001MS

Matrix: Aqueous

Batch: 47649

Prep Method: 8011

Analytical Method: 8011

Prep Date: 07/27/2017 1336

| Parameter                 | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|---------------------------|----------------------|---------------------|------------------|---|-----|-------|-------------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND                   | 0.25                | 0.20             |   | 1   | 80    | 60-140      | 07/27/2017 2346 |
| Surrogate                 | Q                    | % Rec               | Acceptance Limit |   |     |       |             |                 |
| 1,1,1,2-Tetrachloroethane |                      | 76                  | 57-137           |   |     |       |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## EDB & DBCP by Microextraction - MSD

Sample ID: SG25076-001MD

Matrix: Aqueous

Batch#47649

Prep Method: 8011

Analytical Method: 8011

Prep Date: 07/27/2017 1336

| Parameter                 | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|---------------------------|----------------------|---------------------|------------------|---|-----|-------|-------|-------------|-------------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND                   | 0.25                | 0.19             |   | 1   | 77    | 1.2   | 60-140      | 20          | 07/27/2017 2357 |
| Surrogate                 | Q                    | % Rec               | Acceptance Limit |   |     |       |       |             |             |                 |
| 1,1,1,2-Tetrachloroethane |                      | 72                  | 57-137           |   |     |       |       |             |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and  $\geq$  DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



**Chain of Custody  
and  
Miscellaneous Documents**



**Chain of Custody Record**

**SHEALY ENVIRONMENTAL SERVICES, INC.**  
106 Vantage Point Drive • West Columbia, SC 29172  
Telephone No. 803-791-9700 Fax No. 803-791-9111  
www.shealylab.com

Number **74359**

|  |                    |                               |  |                     |   |   |  |                        |  |   |  |        |
|--|--------------------|-------------------------------|--|---------------------|---|---|--|------------------------|--|---|--|--------|
| Client<br><b>JERRY ENV. SERVICES</b>   |                    |                               | Report to Contact<br><b>Kelly Cone</b>   |                     |   | Telephone No. / E-mail<br><b>843-843-8700</b>   |  |                        | Quote No.  |   |  |        |
| Address<br><b>P.O. Box 25</b>  |                    |                               | Sampler's Signature<br><i>[Signature]</i>  |                     |   | Analysis (Attach list if more space is needed)  |  |                        | Page <b>1</b> of <b>2</b>                          |   |  |        |
| City<br><b>Summerville</b>   | State<br><b>SC</b> | Zip Code<br><b>29484</b>      | Printed Name<br><b>M. Montgomerystayna</b>   |                     |   | No. of Containers by Preservative Type<br>(Columns: Urine, ASB/C, Nitrite, pH, Amorph, No. in lot)<br>ATTEMPTED TO GET TO B |  |                        | Barcode<br><b>SG25076</b><br>Remarks / Cooler I.D. |   |  |        |
| Project Name<br><b>HS #3005</b>  |                    | Project No.<br><b>2230.84</b> | P.O. No.   | Date                | Time  |   |  |                        |  |   |  | Matrix |
| Turn Around Time Required (Prior lab approval required for expedited TAT.)<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify) |                    |                               |  |                     |   |   |  |                        |  |   |  |        |
| Sample Disposal<br><input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Retain by Lab   |                    |                               | Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Sediment <input type="checkbox"/> Felsion <input type="checkbox"/> Unknown |                     |   | QC Requirements (Specify)   |  |                        |  |   |  |        |
| 1. Relinquished by<br><i>[Signature]</i>   |                    |                               | Date<br><b>7/25/17</b>   | Time<br><b>1555</b> | 1. Received by                                  |   |  | Date                   | Time   |   |  |        |
| 2. Relinquished by   |                    |                               | Date   | Time                | 2. Received by                                  |   |  | Date                   | Time   |   |  |        |
| 3. Relinquished by   |                    |                               | Date   | Time                | 3. Received by                                  |   |  | Date                   | Time   |   |  |        |
| 4. Relinquished by   |                    |                               | Date   | Time                | 4. Laboratory received by<br><i>[Signature]</i> |   |  | Date<br><b>7/25/17</b> | Time<br><b>1554</b>                                | Received on Ice (Circle) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Ice Pack<br>Receipt Temp. <b>4.8</b> °C<br>BAF 7/25/17 |  |        |
| Note: All samples are retained for four weeks from receipt unless other arrangements are made.   |                    |                               |  |                     |   |   |  |                        |  |   |  |        |



**Chain of Custody Record**

**SHEALY ENVIRONMENTAL SERVICES, INC.**  
106 Vantage Point Drive • West Columbia, SC 29172  
Telephone No. 803-791-9700 Fax No. 803-791-9111  
www.shealylab.com

Number **74431**

|  |                    |   |                                      |  |   |                             |      |
|--|--------------------|---|--------------------------------------|--|---|-----------------------------|------|
| Client<br><b>TERRA Env. Services</b>   |                    | Report to Contact<br><b>Kelly CWC</b>   |                                      | Telephone No. / E-mail<br><b>843-873-8700</b>  |   | Quote No.                   |      |
| Address<br><b>P.O. Box 25</b>  |                    | Sampler's Signature<br><i>[Signature]</i>   |                                      | Analysis (Attach list if more space is needed)   |   | Page <b>2</b> of <b>2</b>   |      |
| City<br><b>Summerville</b>   | State<br><b>SC</b> | Zip Code<br><b>29404</b>  | Printed Name<br><b>M. Montgomery</b> |  | <br>SG25076<br>Remarks / Container I.D. |                             |      |
| Project Name<br><b>HS #3005</b>  |                    | Project No.<br><b>2230EH</b>  |                                      |  |   |                             |      |
| Sample ID / Description<br><small>(Containers for each sample may be combined on one line.)</small>  |                    | Date  | Time                                 | Matrix   | No. of Containers by Preservative Type  |                             |      |
|  |                    |   |                                      | Matrix<br>A<br>B<br>C<br>D<br>E<br>F<br>G<br>H<br>I<br>J<br>K<br>L<br>M<br>N<br>O<br>P<br>Q<br>R<br>S<br>T<br>U<br>V<br>W<br>X<br>Y<br>Z<br>AA<br>AB<br>AC<br>AD<br>AE<br>AF<br>AG<br>AH<br>AI<br>AJ<br>AK<br>AL<br>AM<br>AN<br>AO<br>AP<br>AQ<br>AR<br>AS<br>AT<br>AU<br>AV<br>AW<br>AX<br>AY<br>AZ<br>BA<br>BB<br>BC<br>BD<br>BE<br>BF<br>BG<br>BH<br>BI<br>BJ<br>BK<br>BL<br>BM<br>BN<br>BO<br>BP<br>BQ<br>BR<br>BS<br>BT<br>BU<br>BV<br>BW<br>BX<br>BY<br>BZ<br>CA<br>CB<br>CC<br>CD<br>CE<br>CF<br>CG<br>CH<br>CI<br>CJ<br>CK<br>CL<br>CM<br>CN<br>CO<br>CP<br>CQ<br>CR<br>CS<br>CT<br>CU<br>CV<br>CW<br>CX<br>CY<br>CZ<br>DA<br>DB<br>DC<br>DD<br>DE<br>DF<br>DG<br>DH<br>DI<br>DJ<br>DK<br>DL<br>DM<br>DN<br>DO<br>DP<br>DQ<br>DR<br>DS<br>DT<br>DU<br>DV<br>DW<br>DX<br>DY<br>DZ<br>EA<br>EB<br>EC<br>ED<br>EE<br>EF<br>EG<br>EH<br>EI<br>EJ<br>EK<br>EL<br>EM<br>EN<br>EO<br>EP<br>EQ<br>ER<br>ES<br>ET<br>EU<br>EV<br>EW<br>EX<br>EY<br>EZ<br>FA<br>FB<br>FC<br>FD<br>FE<br>FF<br>FG<br>FH<br>FI<br>FJ<br>FK<br>FL<br>FM<br>FN<br>FO<br>FP<br>FQ<br>FR<br>FS<br>FT<br>FU<br>FV<br>FW<br>FX<br>FY<br>FZ<br>GA<br>GB<br>GC<br>GD<br>GE<br>GF<br>GG<br>GH<br>GI<br>GJ<br>GK<br>GL<br>GM<br>GN<br>GO<br>GP<br>GQ<br>GR<br>GS<br>GT<br>GU<br>GV<br>GW<br>GX<br>GY<br>GZ<br>HA<br>HB<br>HC<br>HD<br>HE<br>HF<br>HG<br>HH<br>HI<br>HJ<br>HK<br>HL<br>HM<br>HN<br>HO<br>HP<br>HQ<br>HR<br>HS<br>HT<br>HU<br>HV<br>HW<br>HX<br>HY<br>HZ<br>IA<br>IB<br>IC<br>ID<br>IE<br>IF<br>IG<br>IH<br>II<br>IJ<br>IK<br>IL<br>IM<br>IN<br>IO<br>IP<br>IQ<br>IR<br>IS<br>IT<br>IU<br>IV<br>IW<br>IX<br>IY<br>IZ<br>JA<br>JB<br>JC<br>JD<br>JE<br>JF<br>JG<br>JH<br>JI<br>JJ<br>JK<br>JL<br>JM<br>JN<br>JO<br>JP<br>JQ<br>JR<br>JS<br>JT<br>JU<br>JV<br>JW<br>JX<br>JY<br>JZ<br>KA<br>KB<br>KC<br>KD<br>KE<br>KF<br>KG<br>KH<br>KI<br>KJ<br>KK<br>KL<br>KM<br>KN<br>KO<br>KP<br>KQ<br>KR<br>KS<br>KT<br>KU<br>KV<br>KW<br>KX<br>KY<br>KZ<br>LA<br>LB<br>LC<br>LD<br>LE<br>LF<br>LG<br>LH<br>LI<br>LJ<br>LK<br>LL<br>LM<br>LN<br>LO<br>LP<br>LQ<br>LR<br>LS<br>LT<br>LU<br>LV<br>LW<br>LX<br>LY<br>LZ<br>MA<br>MB<br>MC<br>MD<br>ME<br>MF<br>MG<br>MH<br>MI<br>MJ<br>MK<br>ML<br>MM<br>MN<br>MO<br>MP<br>MQ<br>MR<br>MS<br>MT<br>MU<br>MV<br>MW<br>MX<br>MY<br>MZ<br>NA<br>NB<br>NC<br>ND<br>NE<br>NF<br>NG<br>NH<br>NI<br>NJ<br>NK<br>NL<br>NM<br>NN<br>NO<br>NP<br>NQ<br>NR<br>NS<br>NT<br>NU<br>NV<br>NW<br>NX<br>NY<br>NZ<br>OA<br>OB<br>OC<br>OD<br>OE<br>OF<br>OG<br>OH<br>OI<br>OJ<br>OK<br>OL<br>OM<br>ON<br>OO<br>OP<br>OQ<br>OR<br>OS<br>OT<br>OU<br>OV<br>OW<br>OX<br>OY<br>OZ<br>PA<br>PB<br>PC<br>PD<br>PE<br>PF<br>PG<br>PH<br>PI<br>PJ<br>PK<br>PL<br>PM<br>PN<br>PO<br>PP<br>PQ<br>PR<br>PS<br>PT<br>PU<br>PV<br>PW<br>PX<br>PY<br>PZ<br>QA<br>QB<br>QC<br>QD<br>QE<br>QF<br>QG<br>QH<br>QI<br>QJ<br>QK<br>QL<br>QM<br>QN<br>QO<br>QP<br>QQ<br>QR<br>QS<br>QT<br>QU<br>QV<br>QW<br>QX<br>QY<br>QZ<br>RA<br>RB<br>RC<br>RD<br>RE<br>RF<br>RG<br>RH<br>RI<br>RJ<br>RK<br>RL<br>RM<br>RN<br>RO<br>RP<br>RQ<br>RR<br>RS<br>RT<br>RU<br>RV<br>RW<br>RX<br>RY<br>RZ<br>SA<br>SB<br>SC<br>SD<br>SE<br>SF<br>SG<br>SH<br>SI<br>SJ<br>SK<br>SL<br>SM<br>SN<br>SO<br>SP<br>SQ<br>SR<br>SS<br>ST<br>SU<br>SV<br>SW<br>SX<br>SY<br>SZ<br>TA<br>TB<br>TC<br>TD<br>TE<br>TF<br>TG<br>TH<br>TI<br>TJ<br>TK<br>TL<br>TM<br>TN<br>TO<br>TP<br>TQ<br>TR<br>TS<br>TT<br>TU<br>TV<br>TW<br>TX<br>TY<br>TZ<br>UA<br>UB<br>UC<br>UD<br>UE<br>UF<br>UG<br>UH<br>UI<br>UJ<br>UK<br>UL<br>UM<br>UN<br>UO<br>UP<br>UQ<br>UR<br>US<br>UT<br>UY<br>UZ<br>VA<br>VB<br>VC<br>VD<br>VE<br>VF<br>VG<br>VH<br>VI<br>VJ<br>VK<br>VL<br>VM<br>VN<br>VO<br>VP<br>VQ<br>VR<br>VS<br>VT<br>VU<br>VV<br>VW<br>VX<br>VY<br>VZ<br>WA<br>WB<br>WC<br>WD<br>WE<br>WF<br>WG<br>WH<br>WI<br>WJ<br>WK<br>WL<br>WM<br>WN<br>WO<br>WP<br>WQ<br>WR<br>WS<br>WT<br>WU<br>WV<br>WW<br>WX<br>WY<br>WZ<br>XA<br>XB<br>XC<br>XD<br>XE<br>XF<br>XG<br>XH<br>XI<br>XJ<br>XK<br>XL<br>XM<br>XN<br>XO<br>XP<br>XQ<br>XR<br>XS<br>XT<br>XU<br>XV<br>XW<br>XX<br>XY<br>XZ<br>YA<br>YB<br>YC<br>YD<br>YE<br>YF<br>YG<br>YH<br>YI<br>YJ<br>YK<br>YL<br>YM<br>YN<br>YO<br>YP<br>YQ<br>YR<br>YS<br>YT<br>YU<br>YV<br>YW<br>YX<br>YZ<br>ZA<br>ZB<br>ZC<br>ZD<br>ZE<br>ZF<br>ZG<br>ZH<br>ZI<br>ZJ<br>ZK<br>ZL<br>ZM<br>ZN<br>ZO<br>ZP<br>ZQ<br>ZR<br>ZS<br>ZT<br>ZU<br>ZV<br>ZW<br>ZX<br>ZY<br>ZZ |   |                             |      |
| Turn Around Time Required (Prior lab approval required for expedited IAT.)<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify) |                    | Sample Disposal<br><input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Dispose by Lab |                                      | Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Irritable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown  |   | QC Requirements (Specify)   |      |
| 1. Relinquished by<br><i>[Signature]</i>   |                    | Date  | Time                                 | 1. Received by   |   | Date                        | Time |
| 2. Relinquished by   |                    | Date  | Time                                 | 2. Received by   |   | Date                        | Time |
| 3. Relinquished by   |                    | Date  | Time                                 | 3. Received by   |   | Date                        | Time |
| 4. Relinquished by   |                    | Date  | Time                                 | 4. Laboratory received by<br><i>[Signature]</i>  |   | Date                        | Time |
| Note: All samples are retained for four weeks from receipt unless other arrangements are made.   |                    |   |                                      | LAB USE ONLY<br>Received on Ice (Circle Yes/No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Ice Pack   |   | Receipt Temp. <b>4.8</b> °C |      |

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 09-01-2014

# SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.  
Document Number: ME0018C-08

Page 1 of 1  
Effective Date: 03/07/2017  
Expiry Date: 03/07/2022

### Sample Receipt Checklist (SRC)

Client: Terry Env. Services Cooler Inspected by/date: BAF 7/25/17 Lot #: SG25076

|  |  |   |
|--|--|---|
| Means of receipt: <input checked="" type="checkbox"/> SESI <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other                                |  |   |
| Yes <input type="checkbox"/>   | No <input checked="" type="checkbox"/> | 1. Were custody seals present on the cooler?  |
| Yes <input type="checkbox"/>   | No <input type="checkbox"/>            | 2. If custody seals were present, were they intact and unbroken?  |
| pH strip ID: <u>NA</u> Cl strip ID: <u>NA</u>  |  |   |
| Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:<br><u>14.9.4.8 °C</u> / / °C / / °C / / °C   |  |   |
| Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>6</u> IR Gun Correction Factor: <u>0</u> °C   |  |   |
| Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None  |  |   |
| Yes <input type="checkbox"/>   | No <input type="checkbox"/>            | 3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified?<br>PM was Notified by: phone / email / face-to-face (circle one).               |
| Yes <input type="checkbox"/>   | No <input type="checkbox"/>            | 4. Is the commercial courier's packing slip attached to this form?  |
| Yes <input checked="" type="checkbox"/>  | No <input type="checkbox"/>            | 5. Were proper custody procedures (relinquished/received) followed?   |
| Yes <input checked="" type="checkbox"/>  | No <input type="checkbox"/>            | 6. Were sample IDs listed on the COC?   |
| Yes <input checked="" type="checkbox"/>  | No <input type="checkbox"/>            | 7. Were sample IDs listed on all sample containers?   |
| Yes <input checked="" type="checkbox"/>  | No <input type="checkbox"/>            | 8. Was collection date & time listed on the COC?  |
| Yes <input checked="" type="checkbox"/>  | No <input type="checkbox"/>            | 9. Was collection date & time listed on all sample containers?  |
| Yes <input checked="" type="checkbox"/>  | No <input type="checkbox"/>            | 10. Did all container label information (ID, date, time) agree with the COC?  |
| Yes <input checked="" type="checkbox"/>  | No <input type="checkbox"/>            | 11. Were tests to be performed listed on the COC?   |
| Yes <input checked="" type="checkbox"/>  | No <input type="checkbox"/>            | 12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?   |
| Yes <input checked="" type="checkbox"/>  | No <input type="checkbox"/>            | 13. Was adequate sample volume available?   |
| Yes <input checked="" type="checkbox"/>  | No <input type="checkbox"/>            | 14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?   |
| Yes <input type="checkbox"/>   | No <input checked="" type="checkbox"/> | 15. Were any samples containers missing/excess (circle one) samples Not listed on COC?  |
| Yes <input checked="" type="checkbox"/>  | No <input type="checkbox"/>            | 16. Were hubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?  |
| Yes <input type="checkbox"/>   | No <input type="checkbox"/>            | 17. Were all DR0/metals/nutrient samples received at a pH of < 2?   |
| Yes <input type="checkbox"/>   | No <input type="checkbox"/>            | 18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?  |
| Yes <input type="checkbox"/>   | No <input type="checkbox"/>            | 19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?   |
| Yes <input type="checkbox"/>   | No <input type="checkbox"/>            | 20. Were collection temperatures documented on the COC for NC samples?  |
| Yes <input type="checkbox"/>   | No <input type="checkbox"/>            | 21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS? |
| Yes <input type="checkbox"/>   | No <input checked="" type="checkbox"/> | 22. Was the quote number used taken from the container label?   |
| <b>Sample Preservation</b> (Must be completed for any sample(s) incorrectly preserved or with headspace.)  |  |   |
| Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub> , HCl, NaOH) using SR # _____.                   |  |   |
| Sample(s) <u>ALL EXCEPT MW-2/MW-3R/MW-5/MW-2-DUP</u> were received with bubbles >6 mm in diameter.   |  |   |
| Samples(s) _____ were received with TRC > 0.5 mg/L. (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ) with Shealy ID: _____. |  |   |
| SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____   |  |   |
| Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____   |  |   |
| Sample labels applied by: <u>BAF</u> Verified by: _____ Date: <u>7/25/17</u>   |  |   |

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**APPENDIX C**

**Tax Map  
(Not Applicable)**

**APPENDIX D**

**Soil Boring/Field Screening Logs  
(Not Applicable)**

## **APPENDIX E**

### **Well Completion Logs/SCDHEC 1903 Forms**



**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

**WELL LOG**

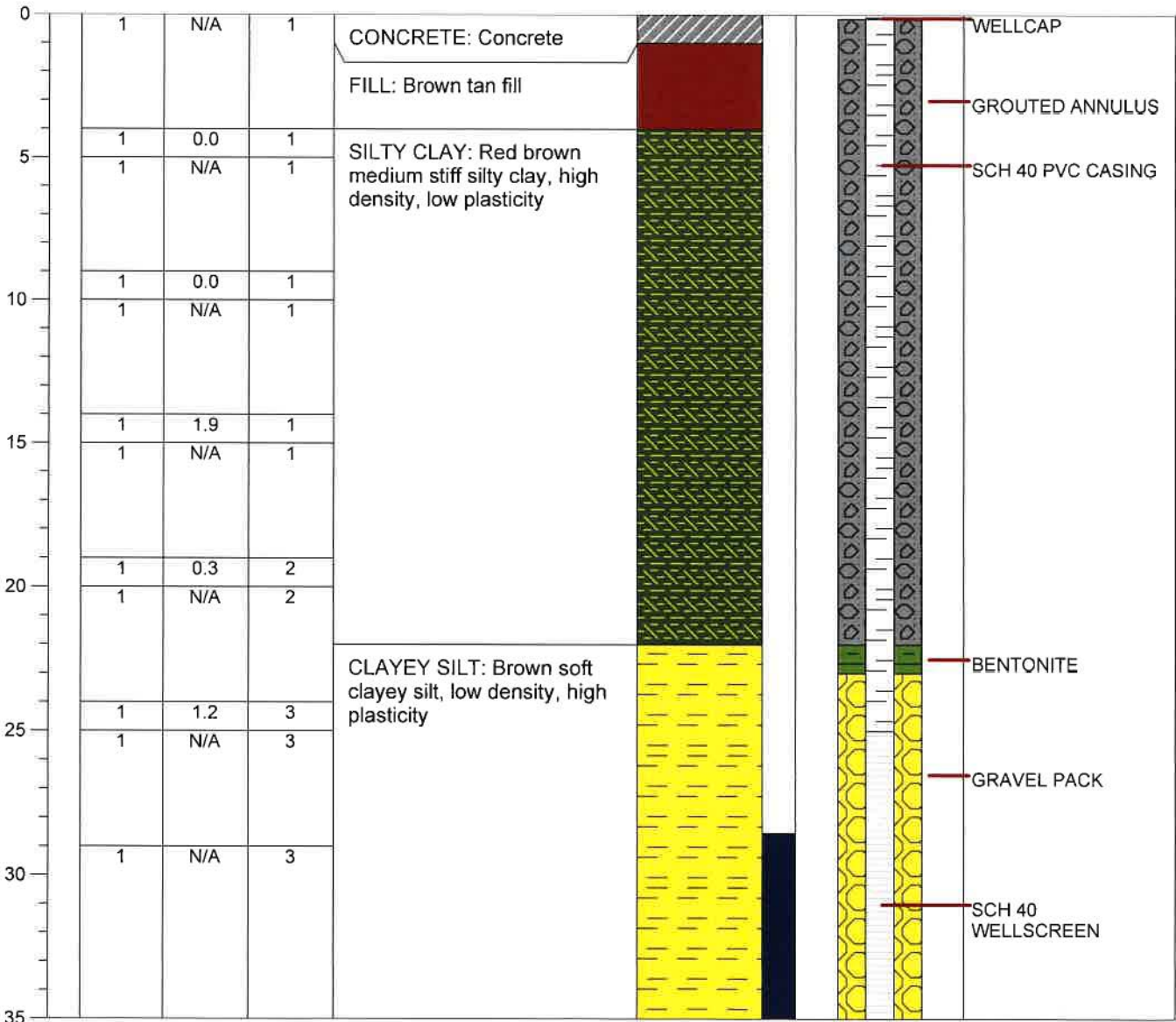
MONITORING WELL #12719-MW15  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.8H  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: B. SPILLANE (CERT# 2167D)  
START DATE: 7/17/2017 FINISH DATE: 7/18/2017  
DRILLING COMPANY: TERRY EXPLORATION  
DRILLER: JOHN S KERR (CERT# 2128B)  
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"  
CASING DIAMETER: 2"  
SCREEN DIAMETER: 2"  
TOP OF CASING ELEVATION: 99.7  
WATER LEVEL: 28.50  
EASTING: 338.0009  
NORTHING: 210.7601  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-25.0 FT TOC Bentonite Interval 22-23 FT BGS Filter Interval 23.0-35.0 FT BGS  
Screen Interval 25.0-35.0 FT TOC Grout Interval 0-22.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|







**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

**WELL LOG**

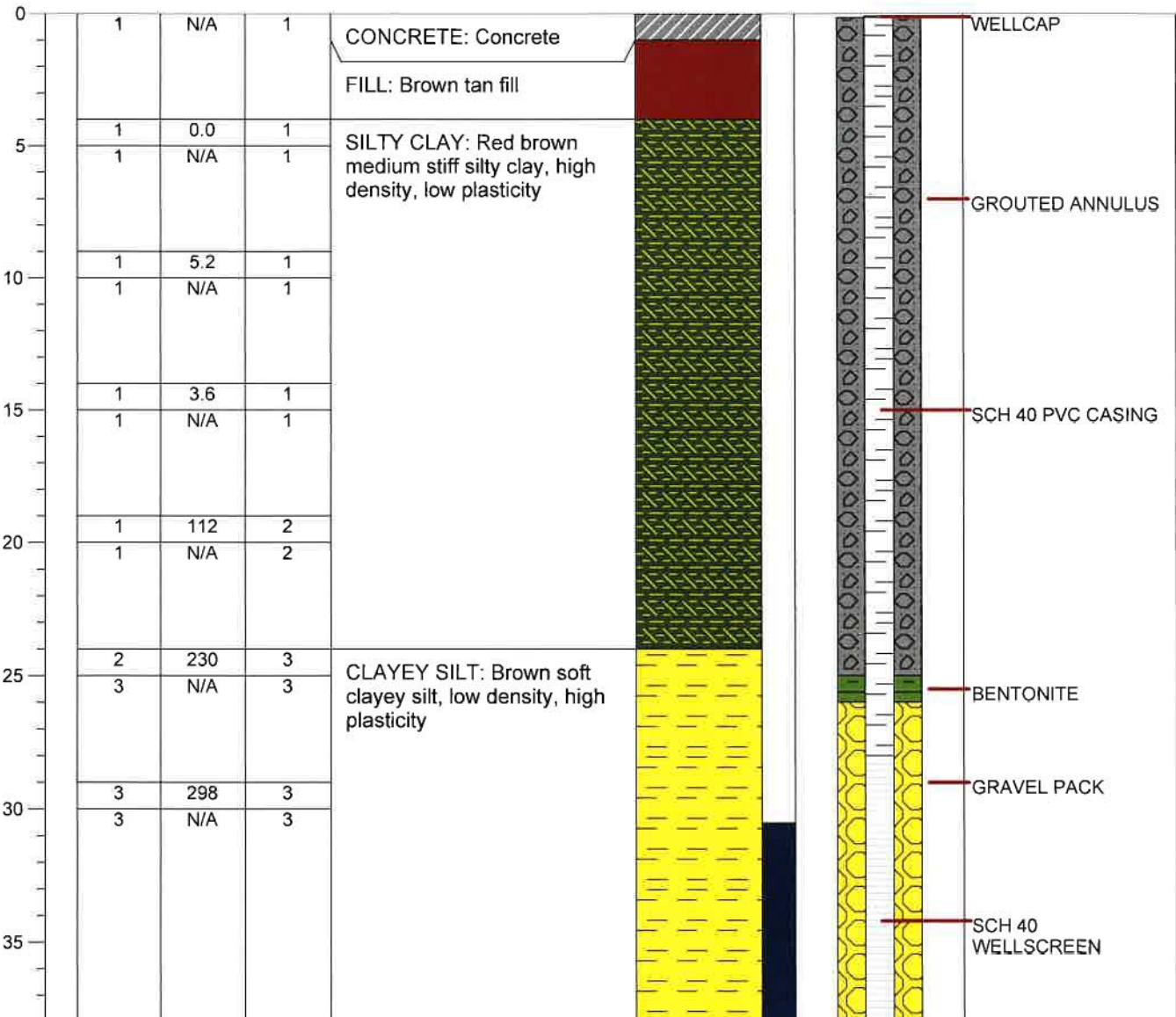
MONITORING WELL #12719-MW16  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.8H  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: B. SPILLANE (CERT# 2167D)  
START DATE: 7/18/2017 FINISH DATE: 7/18/2017  
DRILLING COMPANY: TERRY EXPLORATION  
DRILLER: JOHN S KERR (CERT# 2128B)  
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"  
CASING DIAMETER: 2"  
SCREEN DIAMETER: 2"  
TOP OF CASING ELEVATION: 101.75  
WATER LEVEL: 30.5  
EASTING: 322.4167  
NORTHING: 264.8235  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-28.0 FT TOC Bentonite Interval 25-26 FT BGS Filter Interval 26.0-38.0 FT BGS  
Screen Interval 28.0-38.0 FT TOC Grout Interval 0-25.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|





## Water Well Record

### Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**

Name: R. L. JORDAN OIL COMPANY  
(last) (first)  
 Address: PO BOX 2527  
 City: SPARTANBURG State: SC Zip: 29304-2527  
 Telephone: Work: \_\_\_\_\_ Home: \_\_\_\_\_

**2. LOCATION OF WELL: SC COUNTY: SPARTANBURG**

Name: HOT SPOT 3005  
 Street Address: 107 HAMPTON STREET  
 City: CHESNEE Zip: 29323  
 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

**3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:**

12719-MW15

**4. ABANDONMENT:**  Yes  No

Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

| Formation Description | *Thickness of Stratum | Depth to Bottom of Stratum |
|-----------------------|-----------------------|----------------------------|
| CONCRETE              | 1                     | 1                          |
| FILL                  | 3                     | 4                          |
| SILTY CLAY            | 18                    | 22                         |
| CLAYEY SILT           | 13                    | 35                         |
|                       |                       |                            |
|                       |                       |                            |
|                       |                       |                            |
|                       |                       |                            |
|                       |                       |                            |
|                       |                       |                            |
|                       |                       |                            |
|                       |                       |                            |
|                       |                       |                            |
|                       |                       |                            |

\*Indicate Water Bearing Zones  
 (Use a 2nd sheet if needed)

**5. REMARKS:**

BENTONITE SEAL: 22.0'-23.0'

**6. TYPE:**  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

**7. PERMIT NUMBER:** UMW-26655
**8. USE:**  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  Monitor Well  Replacement

**9. WELL DEPTH (completed)** \_\_\_\_\_ ft. Date Started: 7/17/2017  
35.0 ft. Date Completed: 7/18/2017
**10. CASING:**  Threaded  Welded  
 Diam.: 2.0"  
 Type:  PVC  Galvanized  
 Steel  Other  
0 in. to 25.0 ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 Height: Above  Below   
 Surface \_\_\_\_\_ ft.  
 Weight \_\_\_\_\_ lb./ft.  
 Drive Shoe?  Yes  No

**11. SCREEN:**  
 Type: SCH 40 PVC Diam.: 2.0"  
 Slot/Gauge: 0.010 Length: \_\_\_\_\_  
 Set Between: 25.0 ft. and 35.0 ft.  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Sieve Analysis  Yes (please enclose)  No  
**NOTE: MULTIPLE SCREENS USE SECOND SHEET**
**12. STATIC WATER LEVEL** 28.5 ft. below land surface after 24 hours

**13. PUMPING LEVEL Below Land Surface.**  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M.  
 Pumping Test:  Yes (please enclose)  No  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis  Yes  No Bacterial Analysis  Yes  No  
 Please enclose lab results.

**15. ARTIFICIAL FILTER (filter pack)**  Yes  No  
 Installed from 23.0 ft. to 35.0 ft.  
 Effective size 2 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 22.0 ft. to SURFACE ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type \_\_\_\_\_  
 Well Disinfected  Yes  No Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_ Not installed   
 Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
 H.P. \_\_\_\_\_ Volts \_\_\_\_\_ Length of drop pipe \_\_\_\_\_ ft. Capacity \_\_\_\_\_ gpm  
 TYPE:  Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

**19. WELL DRILLER: JOHN S KERR** CERT. NO.: 2128  
 Address: (Print) 14 SAND DUNE LANE Level: A  B  C  D (circle one)  
ISLE OF PALMS, SC 29451  
 Telephone No.: 843-873-8200 Fax No.: 843-873-8765
**20. WATER WELL DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.

 Signed: Date: 7/27/2017  
Well Driller

If D Level Driller, provide supervising driller's name: \_\_\_\_\_



# Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: R. L. JORDAN OIL COMPANY  
(last) (first)  
 Address: PO BOX 2527  
 City: SPARTANBURG State: SC Zip: 29304-2527  
 Telephone: Work: Home:

**2. LOCATION OF WELL:** SC COUNTY: SPARTANBURG  
 Name: HOT SPOT 3005  
 Street Address: 107 HAMPTON STREET  
 City: CHESNEE Zip: 29323  
 Latitude: Longitude:

**3. PUBLIC SYSTEM NAME:** PUBLIC SYSTEM NUMBER:  
 12719-MW16

**4. ABANDONMENT:**  Yes  No  
 Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

| Formation Description | *Thickness of Stratum | Depth to Bottom of Stratum |
|-----------------------|-----------------------|----------------------------|
| CONCRETE              | 1                     | 1                          |
| FILL                  | 3                     | 4                          |
| SILTY CLAY            | 20                    | 24                         |
| CLAYEY SILT           | 14                    | 38                         |
|                       |                       |                            |
|                       |                       |                            |
|                       |                       |                            |
|                       |                       |                            |
|                       |                       |                            |
|                       |                       |                            |
|                       |                       |                            |
|                       |                       |                            |

\*Indicate Water Bearing Zones  
 (Use a 2nd sheet if needed)

**5. REMARKS:**  
 BENTONITE SEAL: 25.0'-26.0'

**6. TYPE:**  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

**7. PERMIT NUMBER:** UMW-26655

**8. USE:**  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  Monitor Well  Replacement

**9. WELL DEPTH (completed)** \_\_\_\_\_ ft. Date Started: 7/18/2017  
 \_\_\_\_\_ ft. Date Completed: 7/18/2017

**10. CASING:**  Threaded  Welded  
 Diam.: \_\_\_\_\_ 2.0"  
 Type:  PVC  Galvanized  Steel  Other  
 \_\_\_\_\_ 0 \_\_\_\_\_ in. to \_\_\_\_\_ 28.0 \_\_\_\_\_ ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 Height: Above  Below   
 Surface \_\_\_\_\_ ft.  
 Weight \_\_\_\_\_ lb./ft.  
 Drive Shoe?  Yes  No

**11. SCREEN:**  
 Type: \_\_\_\_\_ SCH 40 PVC Diam.: \_\_\_\_\_ 2.0"  
 Slot/Gauge: \_\_\_\_\_ 0.010 Length: \_\_\_\_\_  
 Set Between: \_\_\_\_\_ 28.0 \_\_\_\_\_ ft. and \_\_\_\_\_ 38.0 \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
**NOTE: MULTIPLE SCREENS USE SECOND SHEET**  
 Sieve Analysis  Yes (please enclose)  No

**12. STATIC WATER LEVEL** \_\_\_\_\_ 30.5 \_\_\_\_\_ ft. below land surface after 24 hours

**13. PUMPING LEVEL Below Land Surface.**  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M.  
 Pumping Test:  Yes (please enclose)  No  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis  Yes  No Bacterial Analysis  Yes  No  
 Please enclose lab results.

**15. ARTIFICIAL FILTER (filter pack)**  Yes  No  
 Installed from \_\_\_\_\_ 26.0 \_\_\_\_\_ ft. to \_\_\_\_\_ 38.0 \_\_\_\_\_ ft.  
 Effective size \_\_\_\_\_ 2 \_\_\_\_\_ Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From \_\_\_\_\_ 25.0 \_\_\_\_\_ ft. to \_\_\_\_\_ SURFACE \_\_\_\_\_ ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type \_\_\_\_\_  
 Well Disinfected  Yes  No Type: \_\_\_\_\_ Amount: \_\_\_\_\_

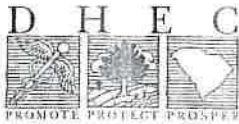
**18. PUMP:** Date installed: \_\_\_\_\_ Not installed   
 Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
 H.P. \_\_\_\_\_ Volts \_\_\_\_\_ Length of drop pipe \_\_\_\_\_ ft. Capacity \_\_\_\_\_ gpm  
 TYPE:  Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

**19. WELL DRILLER: JOHN S KERR** CERT. NO.: 2128  
 Address: (Print) Level: A B C D (circle one)  
 14 SAND DUNE LANE      
 ISLE OF PALMS, SC 29451  
 Telephone No.: 843-873-8200 Fax No.: 843-873-8765

**20. WATER WELL DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: \_\_\_\_\_ Date: 7/27/2017  
 Well Driller

If D Level Driller, provide supervising driller's name:



**Well Development Data Verification Form  
Underground Storage Tank Management Division**

Facility Name: Fer HS #3005 Site ID#: #12719  
 Date: 7/17/17 Field Personnel: \_\_\_\_\_  
 Drilling Company: Tecy Exploration Driller's Name: John Skerr  
 Driller's Certification Number: 2128B Weather Conditions: Clear, 90

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

|                   |                      |                   |                    |
|-------------------|----------------------|-------------------|--------------------|
| pH meter          | Conductivity meter   | Temperature meter | Turbidity meter    |
| serial no. _____  | serial no. _____     | serial no. _____  | serial no. _____   |
| pH=4.0 <u>4.0</u> | standard <u>4.49</u> |                   | NTU=0.0 <u>0.0</u> |
| pH=7.0 _____      |                      |                   | NTU=1.0 _____      |
| pH=10.0 _____     |                      |                   | NTU=10.0 _____     |

Horiba Lot # 1703CG5 Ex 2/26/19

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# MW-15 Well Casing Diameter 2 inches Borehole Diameter 8 inches  
 Depth to Ground Water (DGW) 28.50 ft. Screen Length/Slot Size 10 ft./0.010 in.  
 Total Well Depth (TWD) 35.0 ft. Screen Interval 25 ft. to 35 ft.  
 Length of water column (LWC=TWD-DGW) 6.5 ft. Type of Drilling Fluids used: None  
 Total Gallons of Water Removed: 13 gals. Drilling Fluids recovered N/A gals.

|                                       |           |            |           |            |            |            |            |
|---------------------------------------|-----------|------------|-----------|------------|------------|------------|------------|
| Time (military)                       | 1424      | 1427       | 1435      | 1438       | 1440       | 1442       | 1444       |
| pH (s.u.)*                            | 6.12      | 6.22       | 6.11      | 6.00       | 5.92       | 5.90       | 5.89       |
| Specific Conductivity (mmhos/cm)*     | 0.115     | 0.154      | 0.102     | 0.095      | 0.074      | 0.072      | 0.072      |
| Water Temperature ( C)*               | 26.5      | 25.5       | 25.1      | 24.4       | 24.2       | 24.2       | 24.2       |
| Turbidity (NTU) *                     | 516       | 47.5       | 312       | 50.2       | 10.8       | 9.9        | 9.5        |
| Physical Characteristics (color/odor) | dark/none | light/none | dark/none | light/none | clear/none | clear/none | clear/none |
| Water Level Measurement (ft) from TOC | 28.50     | 29.25      | 30.75     | 31.5       | 33.0       | 34.0       | 34.0       |
| Total Well Depth (ft) from TOC        | 34.8      | 35.0       | 35.0      | 36.0       | 36.0       | 35.0       | 35.0       |
| Cumulative Gallons Removed            | 0 gals    | 3 gals     | 6 gals    | 8 gals     | 10 gals    | 12 gals    | 13 gals    |

\* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Surge block was lowered to the bottom and pumped up and down aggressively. A submersible pump was lowered down and removed liquid. process was repeated

Driller Signature: [Signature] Date: 7/17/17



**HORIBA U-52-2 DAILY CALIBRATION DATA SHEET**

Serial Number: VWKAUMKJ Date/Time: 2/17/17/1420 Inspector: JK

Solution Manufacturer: Enviro Solutions Lot Number: 1703065 Expiration Date: 2/28/19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>    |
|--------------------------|---------------------------|--------------------|
| pH: 4.00                 | <u>4.0</u>                | ± <u>0.0</u>       |
| Conductivity: 4.49 mS/cm | <u>4.49</u> mS/cm         | ± <u>0.0</u> mS/cm |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± <u>0.0</u> NTU   |

| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--|---------------------------|-----------------|
| NIST-Traceable Thermometer: <u>25.5</u> °C | <u>25.5</u> °C            | ± <u>0.0</u> °C |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

HS #3005 / Development

---

---

---

---

---

---

---

---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: VWKAUMKJ    Date/Time: 7/17/17 1500    Inspector: JK

Solution Manufacturer: <sup>Each for solution</sup> Aurical    Lot Number: 170365    Expiration Date: 2/28/19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--------------------------|---------------------------|-----------------|
| pH: 4.00                 | <u>4.02</u>               | ± 0.02          |
| Conductivity: 4.49 mS/cm | <u>4.49</u> mS/cm         | ± 0.0 mS/cm     |
| Turbidity: 0.0 NTU       | <u>0.1</u> NTU            | ± 0.1 NTU       |

| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--|---------------------------|-----------------|
| NIST-Traceable Thermometer: <u>25.1</u> °C | <u>25.1</u> °C            | ± 0.0 °C        |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

HS # 3005 / Development

---

---

---

---

---

---

---

---



**Well Development Data Verification Form**  
**Underground Storage Tank Management Division**

Facility Name: HS #3005 Site ID#: # 12719  
 Date: 7/18/17 Field Personnel: \_\_\_\_\_  
 Drilling Company: Terry Exploration Driller's Name: John S Kerr  
 Driller's Certification Number: 2128B Weather Conditions: Clear, 90

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

|                   |                      |                   |                    |
|-------------------|----------------------|-------------------|--------------------|
| pH meter          | Conductivity meter   | Temperature meter | Turbidity meter    |
| serial no. _____  | serial no. _____     | serial no. _____  | serial no. _____   |
| pH=4.0 <u>4.0</u> | standard <u>4.49</u> |                   | NTU=0.0 <u>0.0</u> |
| pH=7.0 _____      |                      |                   | NTU=1.0 _____      |
| pH=10.0 _____     |                      |                   | NTU=10.0 _____     |

Horiba Lot # 1703CG5 Ex 2/28/19

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# MW-14 Well Casing Diameter 2 inches Borehole Diameter 8 inches  
 Depth to Ground Water (DGW) 30.5 ft. Screen Length/Slot Size 10 ft./0.010 in.  
 Total Well Depth (TWD) 38.0 ft. Screen Interval 28 ft. to 38 ft.  
 Length of water column (LWC=TWD-DGW) 7.50 ft. Type of Drilling Fluids used: None  
 Total Gallons of Water Removed: 11 gals. Drilling Fluids recovered N/A gals.

|                                       |                  |                   |                  |                   |                   |                   |                   |
|---------------------------------------|------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|
| Time (military)                       | 1212             | 1216              | 1219             | 1222              | 1224              | 1226              | 1228              |
| pH (s.u.)*                            | 6.25             | 6.00              | 5.80             | 5.75              | 5.76              | 5.77              | 5.75              |
| Specific Conductivity (mmhos/cm)*     | 0.088            | 0.172             | 0.164            | 0.160             | 0.157             | 0.155             | 0.154             |
| Water Temperature ( C)*               | 26.5             | 26.0              | 25.7             | 25.1              | 24.2              | 24.2              | 24.2              |
| Turbidity (NTU) *                     | 488              | 72.4              | 120              | 22.7              | 10.5              | 6.6               | 6.4               |
| Physical Characteristics (color/odor) | dark/slight odor | light/slight odor | dark/slight odor | light/slight odor | clear/slight odor | clear/slight odor | clear/slight odor |
| Water Level Measurement (ft) from TOC | 30.5             | 31.25             | 33.0             | 34.0              | 35.25             | 36.5              | 36.5              |
| Total Well Depth (ft) from TOC        | 37.6             | 38.0              | 38.0             | 38.0              | 38.0              | 38.0              | 38.0              |
| Cumulative Gallons Removed            | 0 gals           | 3 gals            | 5 gals           | 7 gals            | 9 gals            | 10 gals           | 11 gals           |

\* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: A surge block was lowered to the bottom and pumped upward down aggressively, a pump was lowered to the bottom to pump out liquid. process was repeated.

Driller Signature: John S Kerr Date: 7/18/17



**HORIBA U-52-2 DAILY CALIBRATION DATA SHEET**

Serial Number: VWKAUMKJ    Date/Time: 7/18/17 / 1200    Inspector: JH

Solution Manufacturer: <sup>Eastern</sup> Aurical    Lot Number: 1703065    Expiration Date: 2/28/19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--------------------------|---------------------------|-----------------|
| pH: 4.00                 | <u>4.0</u>                | ± 0.0           |
| Conductivity: 4.49 mS/cm | <u>4.49</u> mS/cm         | ± 6.0 mS/cm     |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± 0.0 NTU       |

| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--|---------------------------|-----------------|
| NIST-Traceable Thermometer: <u>26.0</u> °C | <u>26.0</u> °C            | ± 0.6 °C        |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

HS 3005 / Development

---



---



---



---



---



---





**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: VWKAUMKJ Date/Time: 7/18/17 / 1235 Inspector: JIK

Solution Manufacturer: Aurical <sup>*Eagle Creek Solution*</sup> Lot Number: 1703C65 Expiration Date: 2/24/19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--------------------------|---------------------------|-----------------|
| pH: 4.00                 | <u>4.03</u>               | ± 0.03          |
| Conductivity: 4.49 mS/cm | <u>4.47</u> mS/cm         | ± 0.02 mS/cm    |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± 0.0 NTU       |

| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--|---------------------------|-----------------|
| NIST-Traceable Thermometer: <u>26.3</u> °C | <u>26.4</u> °C            | ± 0.1 °C        |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

HS 3005 / Development

---



---



---



---



---



---



---

**APPENDIX F**

**Aquifer Evaluation Forms  
(Not Applicable)**

**APPENDIX G**

**Disposal Manifest**

# US Water Recovery

|   |            |   |                          |
|---|------------|---|--------------------------|
| <b>Non-Hazardous Manifest: Waste Water or Drums</b>   |            | <b>Number:</b>  |                          |
| 1. Generator's EPA ID# (if applicable):   |            | Waste ID Number:  |                          |
| 2. Generator's Name and Mailing Address:<br><i>HS #3005 Chesnee, SC</i>   |            | Phone ( )   | P O #: <i>P# 2230.8H</i> |
| 3. Agent of Generator and Mailing Address:<br><i>Terry Environmental Summerville, SC</i>  |            | Phone <i>(843) 773-8200</i>   | P O #:                   |
| 4. Transporter Company Name:<br><i>same as above ↑</i>  |            | Phone ( )   |                          |
| Truck & Trailer License Number:   |            |   |                          |
| 5. Transporter U.S. EPA ID#:  |            | Phone: (843) 797-3111   |                          |
| 6. Facility Name and Site Address:<br>US Water Recovery<br>511 Old Mt. Holly Rd.<br>Goose Creek, SC 29445   |            | Mailing Address:<br>US Water Recovery<br>511 Old Mt. Holly Rd.<br>Goose Creek, SC 29445 |                          |
| Phone: (843) 797-8674   |            | Fax: (843) 797-1884   |                          |
| 7. Facility U.S. EPA ID#:   |            | Fax: (843) 797-1884   |                          |
| Start Level:  | End Level: | Total Gallons:  | Tank Number              |
| 8. U.S. DOT Description   |            | Container No.   | Unit                     |
|   |            | Type  | Quantity                 |
| a. Non-Hazardous, non-regulated waste water   |            |   | <i>gal 35</i>            |
| 9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility. |            |   |                          |
| Printed/Typed Name: <i>Langston Jones</i>   |            | Signature: <i>Langston Jones</i>  | Date: <i>8-4-17</i>      |
| 10. Transporter Acknowledgement of Receipt of Materials   |            | Signature:  | Date:                    |
| Printed/Typed Name:   |            |   |                          |
| 11. Discrepancy Indication space:   |            |   |                          |
| 12. Facility Owner or Operator: Certification of Receipt of Materials   |            | Signature: <i>Dave War</i>  | Date: <i>8-4-17</i>      |
| Printed/Typed Name:   |            |   |                          |

White - Facility

Yellow - Office

Pink - Transporter

Blue - Generator

**NON-HAZARDOUS WASTE MANIFEST**

1 Generator ID Number  
Terry Environmental

2 Page 1  
1

3 Job Number  
D-08171689

4 Waste Tracking Number  
1689-1

5 Generator's Name and Mailing Address  
RL Jordan Oil Company  
PO Box 2527  
Spartanburg, SC 29304

Generator's Site Address (if different than mailing address)  
Hol Spot #3005  
107 Hampton Street, Chesnee, SC 29323

Generator's Phone:

6 Transporter 1 Company Name  
JBR Environmental Services (864) 583-2717

U S EPA ID Number  
SCR000004358

7 Transporter 2 Company Name

U S EPA ID Number

8 Designated Facility Name and Site Address  
JBR Environmental Services  
210 Alice St.  
Spartanburg, SC 29303 (864) 583-2717

U S EPA ID Number

Facility's Phone:

B.T. #24 | SCR000004358 18, 180

9 Waste Shipping Name and Description

| 10 Containers |      | 11 Total | 12 Unit |
|---------------|------|----------|---------|
| No.           | Type |          |         |
| 3             | DM   | 2,100    | P       |
|               |      |          |         |
|               |      |          |         |
|               |      |          |         |

1 Non-DOT / Non-RCRA Regulated Material  
Soil Cuttings

3 DM 2,100 P

2

3

4

1.054

13 Special Handling Instructions and Additional Information

- 1.) Profile # TE-516043
- 2.) Profile #
- 3.) Profile #
- 4.) Profile #

(Truck Number) 24  
(Type if Applicable)

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations

Generator's/Officer's Printed/Typed Name

Signature

Month Day Year

*Klon as per RL Jordan* | *[Signature]* | 8 | 15 | 17

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit

Date leaving U.S.

Transporter Signature (for exports only)

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number

U S EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest as noted in item 17a

Printed/Typed Name

Signature

Month Day Year

*Josh Goodle* | *[Signature]* | 8 | 17 | 17

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY

**APPENDIX H**

**Local Zoning Regulations  
(Not Applicable)**

## **APPENDIX I**

### **Fate and Transport Modeling Data (Not Applicable)**

## **APPENDIX J**

**Access Agreements  
(Not Applicable)**



## **APPENDIX K**

### **Data Verification Checklist**

**Contractor Checklist – Hot Spot #3005**  
**UST Permit #12719 - TERRY Project #2230.8H**

| Item # | Item   | Yes | No | N/A |
|--------|--|-----|----|-----|
| 1      | Is Facility Name, Permit #, and address provided?  | X   |    |     |
| 2      | Is UST Owner/Operator name, address, & phone number provided?  | X   |    |     |
| 3      | Is name, address, & phone number of current property owner provided?   | X   |    |     |
| 4      | Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?             | X   |    |     |
| 5      | Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?     | X   |    |     |
| 6      | Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided? | X   |    |     |
| 7      | Has the facility history been summarized?  | X   |    |     |
| 8      | Has the regional geology and hydrogeology been described?  | X   |    |     |
| 9      | Are the receptor survey results provided as required?  |     |    | X   |
| 10     | Has current use of the site and adjacent land been described?  | X   |    |     |
| 11     | Has the site-specific geology and hydrogeology been described?   | X   |    |     |
| 12     | Has the primary soil type been described?  | X   |    |     |
| 13     | Have field screening results been described?   |     |    | X   |
| 14     | Has a description of the soil sample collection and preservation been detailed?  |     |    | X   |
| 15     | Has the field screening methodology and procedure been detailed?   |     |    | X   |
| 16     | Has the monitoring well installation and development dates been provided?  | X   |    |     |
| 17     | Has the method of well development been detailed?  | X   |    |     |
| 18     | Has justification been provided for the locations of the monitoring wells?   | X   |    |     |
| 19     | Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?   | X   |    |     |
| 20     | Has the groundwater sampling methodology been detailed?  | X   |    |     |
| 21     | Have the groundwater sampling dates and groundwater measurements been provided?  | X   |    |     |
| 22     | Has the purging methodology been detailed?   | X   |    |     |
| 23     | Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?                    | X   |    |     |
| 24     | If free-product is present, has the thickness been provided?   | X   |    |     |
| 25     | Does the report include a brief discussion of the assessment done and the results?   | X   |    |     |
| 26     | Does the report include a brief discussion of the aquifer evaluation and results?  |     |    | X   |
| 27     | Does the report include a brief discussion of the fate & transport models used?  |     |    | X   |
| 28     | Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)  |     |    | X   |
| 29     | Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)   |     |    | X   |
| 30     | Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)   |     |    | X   |
| 31     | Have recommendations for further action been provided and explained?   | X   |    |     |
| 32     | Has the soil analytical data for the site been provided in tabular format? (Table 1)   |     |    | X   |
| 33     | Has the potentiometric data for the site been provided in tabular format? (Table 2)  | X   |    |     |
| 34     | Has the current and historical laboratory data been provided in tabular format?  | X   |    |     |

| Item # | Item   | Yes        | No | N/A        |
|--------|--|------------|----|------------|
| 35     | Have the aquifer characteristics been provided and summarized on the appropriate form?   |            |    | X          |
| 36     | Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)  |            |    | X          |
| 37     | Has the topographic map been provided with all required elements? (Figure 1)   | X          |    |            |
| 38     | Has the site base map been provided with all required elements? (Figure 2)   | X          |    |            |
| 39     | Have the CoC site maps been provided? (Figure 3 & Figure 4)  | X<br>Fig 4 |    | X<br>Fig 3 |
| 40     | Has the site potentiometric map been provided? (Figure 5)  | X          |    |            |
| 41     | Have the geologic cross-sections been provided? (Figure 6)   |            |    | X          |
| 42     | Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)                             |            |    | X          |
| 43     | Has the site survey been provided and include all necessary elements? (Appendix A)   |            |    | X          |
| 44     | Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B) | X          |    |            |
| 45     | Is the laboratory performing the analyses properly certified?  | X          |    |            |
| 46     | Has the tax map been included with all necessary elements? (Appendix C)  |            |    | X          |
| 47     | Have the soil boring/field screening logs been provided? (Appendix D)  |            |    | X          |
| 48     | Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)   | X          |    |            |
| 49     | Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)   |            |    | X          |
| 50     | Have the disposal manifests been provided? (Appendix G)  | X          |    |            |
| 51     | Has a copy of the local zoning regulations been provided? (Appendix H)   |            |    | X          |
| 52     | Has all fate and transport modeling been provided? (Appendix I)  |            |    | X          |
| 53     | Have copies of all access agreements obtained by the contractor been provided? (Appendix J)  |            |    | X          |
| 54     | Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?       | X          |    |            |

Explanation for missing and incomplete information?

Not Applicable for the current directive.



Healthy People. Healthy Communities.

MS. CYNDI SUTTLES  
R L JORDAN OIL COMPANY OF NORTH CAROLINA  
PO BOX 2527  
SPARTANBURG SC 29304-2527



SEP 13 2017

Re: **QAPP Contractor Addendum/SSWP Directive for Tier II**  
Hot Spot 3005, 107 Hampton St, Chesnee, SC 29323  
UST Permit # 12719  
Release #2 reported August 04, 2003  
Monitoring Report received August 23, 2017  
Spartanburg County

Dear Ms. Suttles:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by Terry Environmental Services, Inc. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels (RBSLs).

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of a Tier II assessment is necessary. The Tier II assessment must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulations. A copy of the UST QAPP is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/>.

**Your contractor must complete the Site-Specific QAPP Contractor addendum (QAPPA) or the Site-Specific Work Plan (SSWP) if your contractor has an approved Annual Contractor Quality Assurance Plan (ACQAP). The QAPPA or SSWP and Cost Proposal must be submitted within 30 days from the date of this letter.** Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

On all correspondence regarding this site, please reference UST Permit # 12719. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-0592, fax me at (803) 898-0673, or e-mail me at [patterkc@dhec.sc.gov](mailto:patterkc@dhec.sc.gov).

Sincerely,

Kyle Patterson, Hydrogeologist  
Assessment Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

cc: Terry Environmental Services, Inc., PO BOX 25, Summerville, SC 29484  
Technical file



Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

UST
OCT 03 2017
PROG.

To: Kyle Patterson (SCDHEC Project Manager)
From: Kelly Cone (Contractor Project Manager)
Contractor: TERRY Environmental Services, Inc. UST Contractor Certification Number: UCC-0223

Facility Name: Hot Spot #3005 UST Permit #: 12719
Facility Address: 107 Hampton Street, Chesnee, South Carolina 29323
Responsible Party: RL Jordan Oil Co. of NC (Contact: Ms. Cyndi Suttles) Phone: 864-585-2784
RP Address: PO Box 2527, Spartanburg, SC 29304
Property Owner (if different): EJ Enterprises Inc.
Property Owner Address: PO Box 2527, Spartanburg, SC 29304
Current Use of Property: Commercial

UST
92
Cecy
CCTING

Scope of Work (Please check all that apply)

- IGWA, Tier I, Tier II, Monitoring Well Installation, Groundwater Sampling, Other, GAC

Analyses (Please check all that apply)

- Groundwater/Surface Water: BTEXNMDCA, Oxygenates, EDB, PAH, Lead, 8 RCRA Metals, TPH, pH, BOD, Nitrate, Sulfate, Other, Methane, Ethanol, Dissolved Iron
Drinking Water Supply Wells: BTEXNMDCA, Oxygenates & Ethanol, Mercury, RCRA Metals, EDB
Soil: BTEXNM, PAH, Lead, RCRA Metals, Oil & Grease, TPH-DRO, TPH-GRO, Grain Size, TOC
Air: BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

Table with 4 columns: Matrix, Count, Matrix, Count. Rows: Soil (2), Water Supply Wells (-), Air (-), Field Blank (2), Monitoring Wells (30), Surface Water (1), Duplicate (2), Trip Blank (2)

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.
# of shallow points proposed: 13 Estimated Footage: 455' (13 x 35') feet per point
# of deep points proposed: 2 Estimated Footage: 120' (2 x 60') feet per point
Field Screening Methodology: Grab groundwater samples will be collected via a Geoprobe direct-push technology (DPT) rig

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.
# of shallow wells: 9 Estimated Footage: 315' (9 x 35') feet per point
# of deep wells: 2 Estimated Footage: 120' (2 x 60') feet per point
# of recovery wells: - Estimated Footage: - feet per point
Comments, if warranted: Depth to groundwater is estimated at approximately 30 feet bgs based on the historical data.
During drilling a soil sample will be collected from the screened interval of one proposed shallow well and one proposed deep well for grain size analysis.

UST Permit #: 12719 Facility Name: Hot Spot #3005

**Implementation Schedule** (Number of calendar days from approval)  
Field Work Start-Up: 14-30 days Field Work Completion: 30-75 days  
Report Submittal: 90 days # of Copies Provided to Property Owners: RP only

**Aquifer Characterization**  
Pump Test:  Slug Test:  (Check one and provide explanation below for choice)  
Slug tests are proposed on two shallow wells and one deep well located down gradient of the source area.

**Investigation Derived Waste Disposal**  
Soil: 10 Tons Purge Water: 220 Gallons  
Drilling Fluids: 110 Gallons Free-Phase Product: - Gallons

**Additional Details For This Scope of Work**  
For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.  
This Tier II assessment will include groundwater delineation, monitoring well installation, a comprehensive survey, slug testing (2 shallow wells and 1 deep well), and a comprehensive sampling event. The existing 19 monitoring wells MW-1, MW-2, MW-3R, MW-4 through MW-10, MW-10R, MW-11, MW-11R, MW-12 through MW-16, and MW-1D; the 11 newly proposed monitoring wells (9 shallow & 2 deep), 1 surface water feature (SW-1) will be sampled. The existing monitoring wells were last sampled July 2017 and will only require purging if the water table is not bracket by the screened interval.

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**  
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.  
Name of Laboratory: \_\_\_\_\_  
SCDHEC Certification Number: \_\_\_\_\_  
Name of Laboratory Director: \_\_\_\_\_  
Yes Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.  
Name of Well Driller: \_\_\_\_\_  
SCLLR Certification Number: \_\_\_\_\_  
\_\_\_\_ Other variations from ACQAP. Please describe below.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attachments**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:  
North Arrow  
Location of property lines  
Location of buildings  
Previous soil sampling locations  
Previous monitoring well locations  
Proposed soil boring locations  
Proposed monitoring well locations  
Legend with facility name and address, UST permit number, and bar scale  
Streets or highways (indicate names and numbers)  
Location of all present and former ASTs and USTs  
Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



**ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA**

Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
August 16, 2016

**Facility Name:** Hot Spot #3005

**UST Permit #:** 12719

**Cost Agreement #:**

**Proposed**

| ITEM   | QUANTITY | UNIT              | UNIT PRICE | TOTAL       |
|--|----------|-------------------|------------|-------------|
| <b>1. Plan Preparation</b>   |          |                   |            |             |
| A1. Site-specific Work Plan  | 1        | each              | \$150.00   | \$150.00    |
| B1. Tax Map  |          | each              | \$70.00    | \$0.00      |
| C1. Tier II or Comp. Plan /QAPP Appendix B   |          | each              | \$250.00   | \$0.00      |
| <b>2. A1. Receptor Survey *</b>  |          |                   |            |             |
|  |          | each              | \$551.00   | \$0.00      |
| <b>3. Survey (500 ft x 500 ft)</b>   |          |                   |            |             |
| A1. Comprehensive Survey   | 1        | each              | \$1,040.00 | \$1,040.00  |
| <b>B. Subsurface Geophysical Survey</b>  |          |                   |            |             |
| 1B. < 10 meters below grade  |          | each              | \$1,300.00 | \$0.00      |
| 2B. > 10 meters below grade  |          | each              | \$2,310.00 | \$0.00      |
| C1. Geophysical UST or Drum Survey   |          | each              | \$910.00   | \$0.00      |
| <b>4. Mob/Demob</b>  |          |                   |            |             |
| A1. Equipment (6, 9)   | 2        | each              | \$1,020.00 | \$2,040.00  |
| B1. Personnel (6, 9, 10, 17)   | 4        | each              | \$423.00   | \$1,692.00  |
| C1. Adverse Terrain Vehicle  |          | each              | \$500.00   | \$0.00      |
| <b>5. A1. Soil Borings (hand auger)*</b>   |          |                   |            |             |
|  |          | foot              | \$5.00     | \$0.00      |
| <b>6. Soil Borings (requiring equipment, push technology, etc)* or<br/>Field Screening (including water sample, soil sample, soil gas sample, etc.)*</b> |          |                   |            |             |
| AA. Standard   | 575      | per foot          | \$15.00    | \$8,625.00  |
| C1. Fractured Rock   |          | per foot          | \$20.20    | \$0.00      |
| <b>7. A1. Soil Leachability Model</b>  |          |                   |            |             |
|  |          | each              | \$60.00    | \$0.00      |
| <b>8. Abandonment (per foot)*</b>  |          |                   |            |             |
| A1. 2" diameter or less  | 575      | per foot          | \$3.10     | \$1,782.50  |
| B1. Greater than 2" to 6" diameter   |          | per foot          | \$4.50     | \$0.00      |
| C1. Dug/Bored well (up to 6 feet diameter)   |          | per foot          | \$15.00    | \$0.00      |
| <b>9. Well Installation (per foot)*</b>  |          |                   |            |             |
| A1. Water Table (hand augered)   |          | per foot          | \$10.60    | \$0.00      |
| B1. Water Table (drill rig)  | 315      | per foot          | \$38.00    | \$11,970.00 |
| CC. Telescoping  | 120      | per foot          | \$50.00    | \$6,000.00  |
| DD. Rock Drilling  |          | per foot          | \$58.00    | \$0.00      |
| E1. 2" Rock Coring   |          | per foot          | \$30.90    | \$0.00      |
| G1. Rock Multi-sampling ports/screens  |          | per foot          | \$33.40    | \$0.00      |
| HH. Recovery Well (4" diameter)  |          | per foot          | \$45.00    | \$0.00      |
| II. Pushed Pre-packed screen (1.25" dia)   |          | per foot          | \$15.00    | \$0.00      |
| J1. Rotasonic (2" diameter)  |          | per foot          | \$44.00    | \$0.00      |
| K. Re-develop Existing Well  |          | per foot          | \$11.00    | \$0.00      |
| <b>10. Groundwater Sample Collection / Gauge Depth to Water or Product *</b>   |          |                   |            |             |
| A1. Groundwater Purge  | 12       | per well/receptor | \$60.00    | \$720.00    |
| B1. Air or Vapors  |          | per receptor      | \$12.00    | \$0.00      |
| C1. Water Supply   |          | per well/receptor | \$22.00    | \$0.00      |
| D1. Groundwater NP (18), SW (1), or Dup (2)  | 21       | per well/receptor | \$28.00    | \$588.00    |
| E1. Gauge Well only  |          | per well          | \$7.00     | \$0.00      |
| F1. Sample Below Product   |          | per well          | \$12.00    | \$0.00      |
| G1. Passive Diffusion Bag  |          | each              | \$26.00    | \$0.00      |
| H1. Field Blank  | 2        | each              | \$24.60    | \$49.20     |

|   |     |            |          |  |            |
|---|-----|------------|----------|--|------------|
| <b>11. Laboratory Analyses-Groundwater</b>        |     |            |          |  |            |
| A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)              | 37  | per sample | \$122.00 |  | \$4,514.00 |
| AA1. Lead, Filtered                               |     | per sample | \$13.80  |  | \$0.00     |
| B2. Rush EPA Method 8260B (All of item A.)        |     | per sample | \$153.60 |  | \$0.00     |
| C2. Trimethyl, Butyl, and Isopropyl Benzenes      |     | per sample | \$36.40  |  | \$0.00     |
| D1. PAH's   |     | per sample | \$60.60  |  | \$0.00     |
| E1. Lead  |     | per sample | \$16.00  |  | \$0.00     |
| F1. EDB by EPA 8011                               |     | per sample | \$45.20  |  | \$0.00     |
| FF1. EDB by EPA Method 8011 Rush                  |     | per sample | \$68.20  |  | \$0.00     |
| G1. 8 RCRA Metals                                 |     | per sample | \$63.40  |  | \$0.00     |
| H1. TPH (9070)                                    |     | per sample | \$41.00  |  | \$0.00     |
| II. pH  |     | per sample | \$5.20   |  | \$0.00     |
| J1. BOD   |     | per sample | \$20.00  |  | \$0.00     |
| PP. Ethanol                                       |     | per sample | \$14.80  |  | \$0.00     |
| <b>11. Analyses-Drinking Water</b>                |     |            |          |  |            |
| L. BTEXNM+1,2 DCA (524.2)                         |     | per sample | \$124.05 |  | \$0.00     |
| M. 7-OXYGENATES & ETHANOL (8260B)                 |     | per sample | \$91.75  |  | \$0.00     |
| N. EDB (504.1)                                    |     | per sample | \$79.50  |  | \$0.00     |
| O. RCRA METALS (200.8)                            |     | per sample | \$100.00 |  | \$0.00     |
| <b>11. Analyses-Soil</b>                          |     |            |          |  |            |
| Q1. BTEX + Naphth.                                |     | per sample | \$64.00  |  | \$0.00     |
| R1. PAH's   |     | per sample | \$64.04  |  | \$0.00     |
| S1. 8 RCRA Metals                                 |     | per sample | \$56.40  |  | \$0.00     |
| U1. TPH-DRO (3550C/8015C)                         |     | per sample | \$40.00  |  | \$0.00     |
| V1. TPH- GRO (5030B/8015C)                        |     | per sample | \$35.96  |  | \$0.00     |
| W1. Grain size/hydrometer                         | 2   | per sample | \$104.00 |  | \$208.00   |
| X1. Total Organic Carbon                          |     | per sample | \$30.60  |  | \$0.00     |
| <b>11. Analyses-Air</b>                           |     |            |          |  |            |
| Y1. BTEX + Naphthalene                            |     | per sample | \$216.00 |  | \$0.00     |
| <b>11. Analyses-Free Phase Product</b>            |     |            |          |  |            |
| Z1. Hydrocarbon Fuel Identification               |     | per sample | \$357.00 |  | \$0.00     |
| <b>12. Aquifer Characterization</b>               |     |            |          |  |            |
| A1. Pumping Test*                                 |     | per hour   | \$23.00  |  | \$0.00     |
| B1. Slug Test*                                    | 3   | per test   | \$191.00 |  | \$573.00   |
| C1. Fractured Rock                                |     | per test   | \$100.00 |  | \$0.00     |
| <b>13. A1. Free Product Recovery Rate Test*</b>   |     |            |          |  |            |
|   |     | each       | \$38.00  |  | \$0.00     |
| <b>14. Fate/Transport Modeling</b>                |     |            |          |  |            |
| A1. Mathematical Model                            |     | each       | \$100.00 |  | \$0.00     |
| B1. Computer Model                                |     | each       | \$100.00 |  | \$0.00     |
| <b>15. Risk Evaluation</b>                        |     |            |          |  |            |
| A. Tier I Risk Evaluation                         |     | each       | \$300.00 |  | \$0.00     |
| B1. Tier II Risk Evaluation                       |     | each       | \$100.00 |  | \$0.00     |
| <b>16. A1. Subsequent Survey*</b>                 |     |            |          |  |            |
|   |     | each       | \$260.00 |  | \$0.00     |
| <b>17. Disposal (gallons or tons)*</b>            |     |            |          |  |            |
| AA. Wastewater                                    | 220 | gallon     | \$0.56   |  | \$123.20   |
| BB. Free Product                                  |     | gallon     | \$0.50   |  | \$0.00     |
| C1. Soil Treatment/Disposal                       | 10  | ton        | \$60.00  |  | \$600.00   |
| D1. Drilling fluids                               | 110 | gallon     | \$0.42   |  | \$46.20    |
| <b>18. Miscellaneous (attach receipts)</b>        |     |            |          |  |            |
|   |     | each       | \$0.00   |  | \$0.00     |
|   |     | each       | \$0.00   |  | \$0.00     |
|   |     | each       | \$0.00   |  | \$0.00     |
| <b>20. Tier I Assessment (Use DHEC 3665 form)</b> |     |            |          |  |            |
|   |     | standard   |          |  | \$0.00     |
| <b>21. IGWA (Use DHEC 3666 form)</b>              |     |            |          |  |            |
|   |     | standard   |          |  | \$0.00     |
| <b>22. Corrective Action (Use DHEC 3667 form)</b> |     |            |          |  |            |
|   |     | PFP Bid    |          |  | \$0.00     |



|  |     |           |             |  |             |
|--|-----|-----------|-------------|--|-------------|
| <b>23. Aggressive Fluid &amp; Vapor Recovery (AFVR)</b>                                |     |           |             |  |             |
| A1. 8-hour Event*  |     | each      | \$1,375.00  |  | \$0.00      |
| AA. 24-hour Event*   |     | each      | \$3,825.00  |  | \$0.00      |
| A3. 48-hour Event*   |     | each      | \$6,265.00  |  | \$0.00      |
| A4. 96-hour Event*   |     | each      | \$12,567.50 |  | \$0.00      |
| C1. Off-gas Treatment 8 hour   |     | per event | \$122.50    |  | \$0.00      |
| C2. Off-gas Treatment 24 hour  |     | per event | \$241.50    |  | \$0.00      |
| C3. Off-gas Treatment 48 hour  |     | per event | \$327.00    |  | \$0.00      |
| C4. Off-gas Treatment 96 hour  |     | per event | \$780.00    |  | \$0.00      |
| D. Site Reconnaissance   |     | each      | \$203.25    |  | \$0.00      |
| E1. Additional Hook-ups  |     | each      | \$25.75     |  | \$0.00      |
| F1. Effluent Disposal  |     | gallon    | \$0.44      |  | \$0.00      |
| G. AFVR Mobilization/Demobilization  |     | each      | \$391.50    |  | \$0.00      |
| <b>24. Granulated Activated Carbon (GAC) filter system installation &amp; service:</b> |     |           |             |  |             |
| A1. New GAC System Installation*   |     | each      | \$1,900.00  |  | \$0.00      |
| BB. Refurbished GAC Sys. Install*  |     | each      | \$900.00    |  | \$0.00      |
| C1. Filter replacement/removal*  |     | each      | \$350.00    |  | \$0.00      |
| DD. GAC System removal, cleaning, & refurbishment*                                     |     | each      | \$275.00    |  | \$0.00      |
| E1. GAC System housing*  |     | each      | \$250.00    |  | \$0.00      |
| F. In-line particulate filter  |     | each      | \$150.00    |  | \$0.00      |
| G1. Additional piping & fittings   |     | foot      | \$1.50      |  | \$0.00      |
| <b>25. Well Repair</b>   |     |           |             |  |             |
| A1. Additional Copies of the Report Delivered  |     | each      | \$50.00     |  | \$0.00      |
| B1. Repair 2x2 MW pad*   |     | each      | \$50.00     |  | \$0.00      |
| C1. Repair 4x4 MW pad*   |     | each      | \$88.00     |  | \$0.00      |
| D1. Repair well vault*   |     | each      | \$118.00    |  | \$0.00      |
| F1. Replace well cover bolts   |     | each      | \$2.60      |  | \$0.00      |
| G. Replace locking well cap & lock   |     | each      | \$15.00     |  | \$0.00      |
| H1. Replace/Repair stick-up*   |     | each      | \$134.00    |  | \$0.00      |
| II. Convert Flush-mount to Stick-up*   |     | each      | \$150.00    |  | \$0.00      |
| J1. Convert Stick-up to Flush-mount*   |     | each      | \$130.00    |  | \$0.00      |
| K1. Replace missing/illegible well ID plate  |     | each      | \$12.00     |  | \$0.00      |
| <b>Report Prep &amp; Project Management</b>  | 12% | percent   | \$40,721.10 |  | \$4,886.53  |
| <b>TOTAL</b>   |     |           |             |  | \$45,607.63 |

\*The appropriate mobilization cost can be added to complete these tasks, as necessary

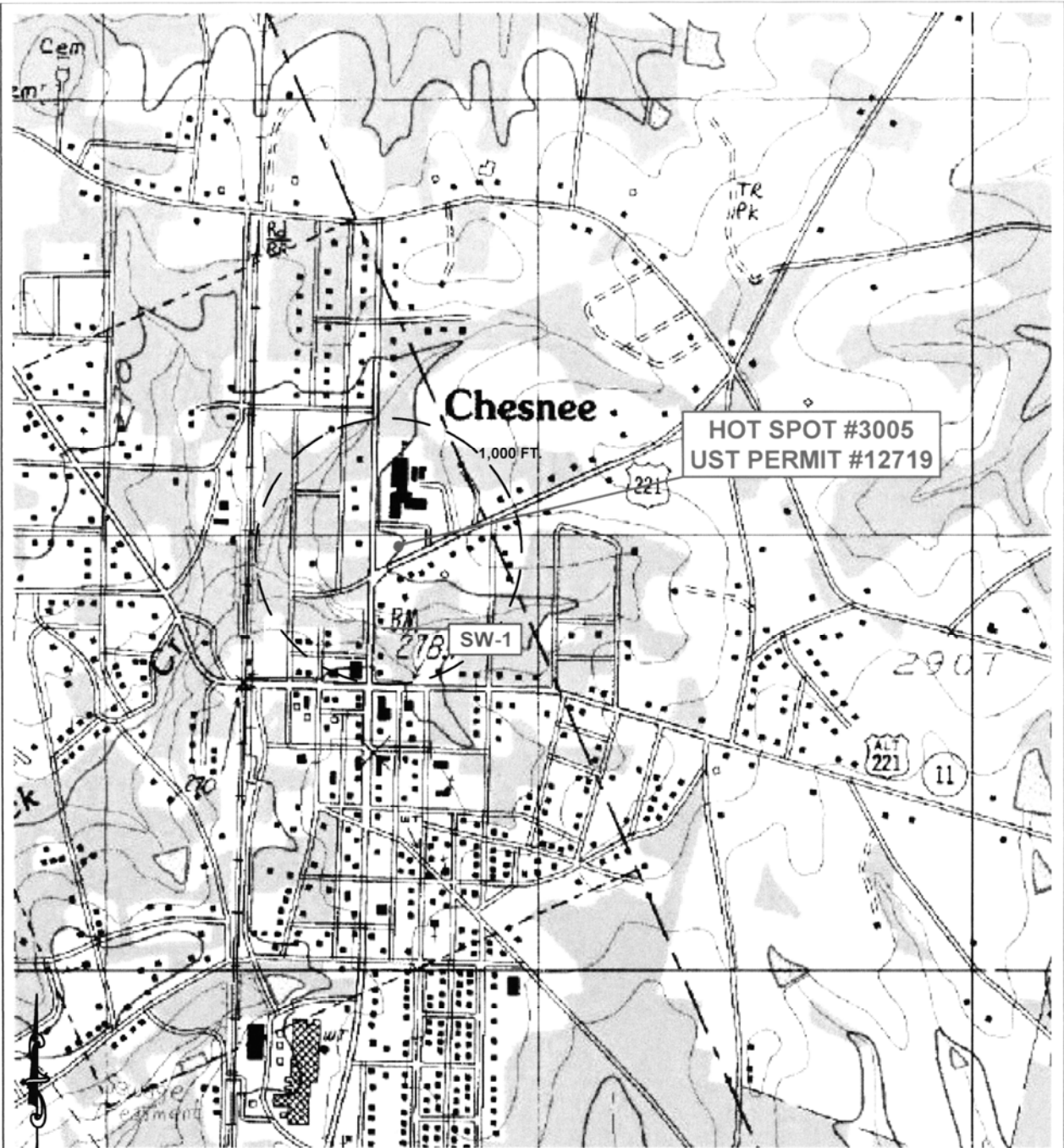


Image courtesy of the U.S. Geological Survey

**TERRY**  
ENVIRONMENTAL SERVICES  
CLIENTS FIRST ALWAYS

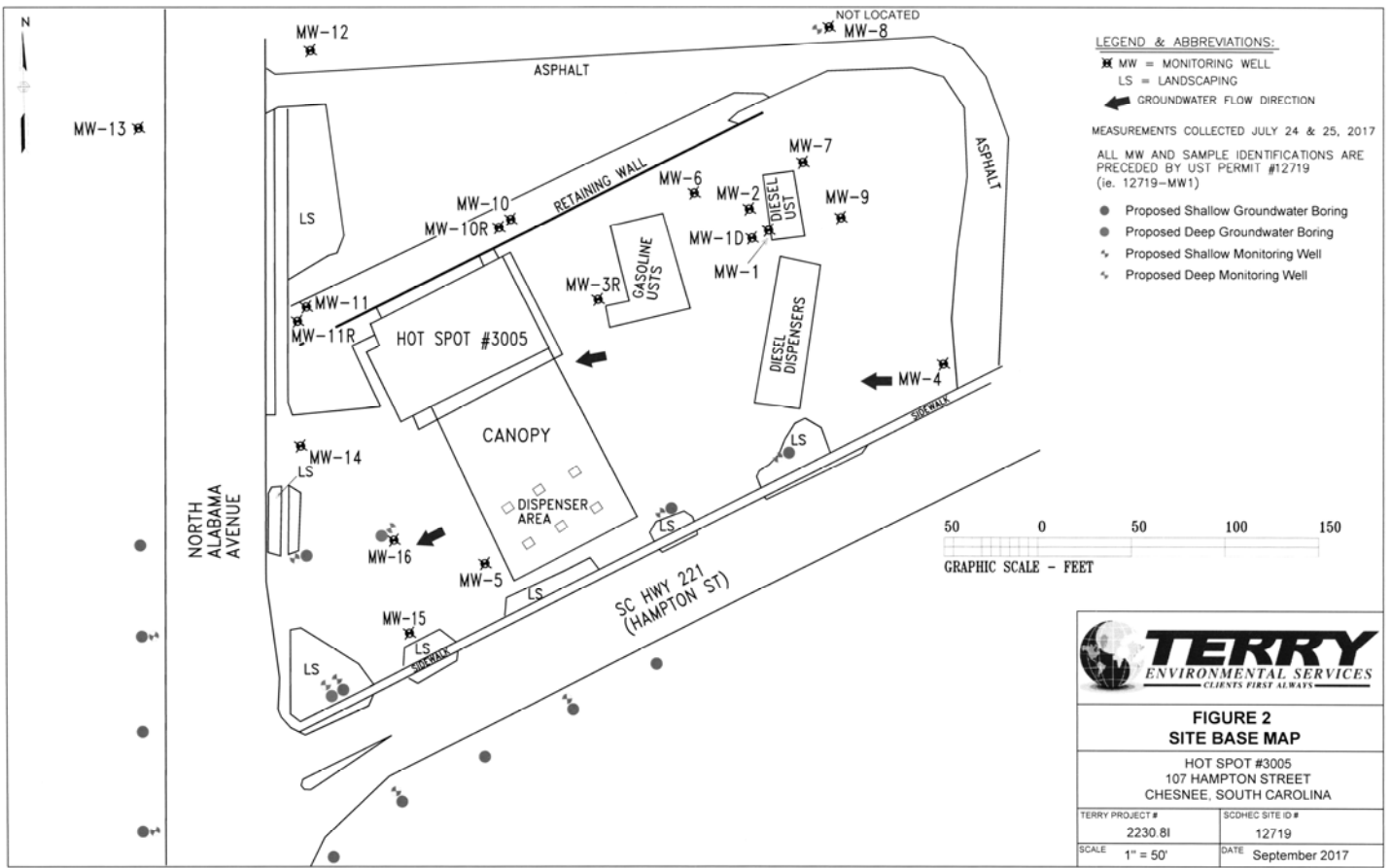
*providing our clients with the best services available,  
actually understanding our clients objectives,  
and making their objectives our own!*

PO Box 25  
Summerville, South Carolina 29484  
(800) 325-0605 (843)-873-8200 fax (843)-873-8765

**FIGURE 1  
TOPOGRAPHIC MAP**

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

|                 |                              |                                     |     |
|-----------------|------------------------------|-------------------------------------|-----|
| SIZE<br>B       | TERRY Project No.<br>2230.81 | DWG NO.<br>Figure 1 Topographic Map | REV |
| SCALE: As Shown |                              | DATE: September 2017                |     |

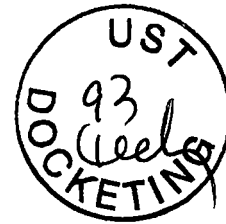




Healthy People. Healthy Communities.

MS. CYNDI SUTTLES  
R L JORDAN OIL COMPANY OF NORTH CAROLINA  
PO BOX 2527  
SPARTANBURG SC 29304-2527

OCT 24 2017



Re: **Tier II Directive**  
Hot Spot 3005, 107 Hampton St, Chesnee, SC 29323  
UST Permit # 12719; CA #55520; UMW-26773  
Release #2 reported August 04, 2003  
Site-Specific Work Plan and cost proposal received October 03, 2017  
Spartanburg County

Dear Ms. Suttles:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site-Specific Work Plan (SSWP) submitted by Terry Environmental Services, Inc. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), Terry Environmental Services's approved SSWP and Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/>

The Tier II Assessment should begin immediately upon receipt of this letter. A monitoring well approval has been enclosed for the monitoring well installation. Cost agreement #55520 has been approved for the amount shown on the enclosed cost agreement form. Please note the following changes to the cost agreement and SSWP:

- Item 3 A1 – 1 Comprehensive Survey has been removed from the cost agreement.
- Item 9 HH – 70 feet of Well Installation has been added to the cost agreement. Two recovery wells need to be installed near MW-1.
- Item 16 A1 – 1 Subsequent Survey has been added to the cost agreement.

Please be aware that the August 15, 2016 State Underground Petroleum Environmental Response Bank (SUPERB) Allowable Costs sheet states that "If the vertical and horizontal extent of chemicals of concern is not fully defined by the tier report, the Division may not approve additional future mobilizations for additional screening or well installation." Any screening point that is converted to a permanent monitoring well will be reimbursed at the approved well installation rate. **Please contact the Division prior to well installation for concurrence regarding the final well locations. Please note that you and/or your contractor are responsible for obtaining all off-site access agreements and/or encroachment permits necessary for this scope of work.**

**The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.**

**The Tier II report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the Division within sixty (90) days of the date of this correspondence.** The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

Terry Environmental Services, Inc., can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Division for the cost to be paid. The Division reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Division reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by an DHEC-certified site rehabilitation contractor as required by R.61-98.

The Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the Chemical of Concern (CoC) concentrations based on laboratory analysis is below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on-site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference UST Permit # 12719. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-0592, fax me at (803) 898-0673, or e-mail me at [patterkc@dhec.sc.gov](mailto:patterkc@dhec.sc.gov).

Sincerely,



Kyle Patterson, Hydrogeologist  
Assessment & Unregulated Petroleum Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Approved Cost Agreement (ACA)  
Monitoring Well Approval (MWA)

cc: Terry Environmental Services, Inc., PO BOX 25, Summerville, SC 29484 (w/enc.)  
Technical file (with enc.)



## Monitoring Well Approval

**Approval is hereby granted to:** Terry Environmental Services, Inc.  
**(on behalf of):** R L Jordan Oil Company of North Carolina  
**Facility:** Hot Spot 3005, 107 Hampton St, Chesnee, SC  
**UST Permit Number:** 12719  
**County:** Spartanburg

This approval is for the installation of fifteen temporary, nine shallow, and two deep groundwater monitoring wells. The monitoring wells are to be installed in the approved locations. Monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

**Please note that R.61-71 requires the following:**

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the Division shall be completed and submitted to the Division within 30 days after well completion or abandonment unless another schedule has been approved by the Division. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Division within 30 days of receipt of laboratory results unless another schedule has been approved by the Division as required by R.61-71.H.1.d.
5. If any of the information provided to the Division changes, notification to Kyle Patterson the project manager (tel: (803) 898-0592 or e-mail: patterkc@scdhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
7. Division approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated May 27, 2016. A copy of this approval should be on the site during well installation.

**Date of Issuance: October 11, 2017**

**Approval #: UMW-26773**

Kyle Patterson, Hydrogeologist  
Assessment & Unregulated Petroleum Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

**Approved Cost Agreement**

**55520**

Facility: 12719 HOT SPOT 3005

PATTERKC

PO Number:

| <u>Task / Description</u>         | <u>Categories</u> | <u>Item Description</u>           | <u>Qty / Pct</u> | <u>Unit Price</u> | <u>Amount</u>    |
|-----------------------------------|-------------------|-----------------------------------|------------------|-------------------|------------------|
| 01 PLAN                           |                   | A1 SITE SPECIFIC WORK PLAN        | 1.0000           | \$150.000         | 150.00           |
| 04 MOB/DEMOB                      |                   | A1 EQUIPMENT                      | 2.0000           | \$1,020.000       | 2,040.00         |
|                                   |                   | B1 PERSONNEL                      | 4.0000           | \$423.000         | 1,692.00         |
| 06 SOIL BORINGS (DRILLED)         |                   | AA SOIL BORING/FLD SCR. STANDARD  | 575.0000         | \$15.000          | 8,625.00         |
| 08 ABANDONMENT                    |                   | A1 ABANDONMENT 2" DIA OR LESS     | 575.0000         | \$3.100           | 1,782.50         |
| 09 WELL INSTALLATION              |                   | B1 WATER TABLE (DRILL RIG)        | 315.0000         | \$38.000          | 11,970.00        |
|                                   |                   | CC TELESCOPING                    | 120.0000         | \$50.000          | 6,000.00         |
|                                   |                   | HH RECOVERY WELL (4 INCH DIA)     | 70.0000          | \$45.000          | 3,150.00         |
| 10 SAMPLE COLLECTION              |                   | A1 GROUNDWATER (PURGE)            | 12.0000          | \$60.000          | 720.00           |
|                                   |                   | D1 GROUNDWATER NO PURGE/DUPLICATE | 21.0000          | \$28.000          | 588.00           |
|                                   |                   | H1 FIELD BLANK                    | 2.0000           | \$24.600          | 49.20            |
| 11 ANALYSES                       | GW GROUNDWATER    | A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B | 37.0000          | \$122.000         | 4,514.00         |
|                                   | SOIL SOIL         | W1 GRAIN SIZE / HYDROMETER        | 2.0000           | \$104.000         | 208.00           |
| 12 AQUIFER CHARACTERIZATION       |                   | B1 SLUG TEST                      | 3.0000           | \$191.000         | 573.00           |
| 16 SUBSEQUENT SURVEY              |                   | A1 SUBSEQUENT SURVEY              | 1.0000           | \$260.000         | 260.00           |
| 17 DISPOSAL                       |                   | AA WASTEWATER                     | 220.0000         | \$0.560           | 123.20           |
|                                   |                   | C1 SOIL TREATMENT DISPOSAL        | 10.0000          | \$60.000          | 600.00           |
|                                   |                   | D1 DRILLING FLUIDS                | 110.0000         | \$0.420           | 46.20            |
| 19 RPT/PROJECT MNGT & COORDINATIO |                   | PRT REPORT PREPARATION            | 0.1200           | \$43,091.100      | 5,170.93         |
| <b>Total Amount</b>               |                   |                                   |                  |                   | <b>48,262.03</b> |

# Document Receipt Information

Hard Copy

CD

Email

Date Received Aug 13, 2018

Permit Number 12719

Project Manager Lyle Patterson

Name of Contractor Terry Env Services

UST Certification Number Tier II Report

Docket Number 94Tech

Scanned \_\_\_\_\_



**TIER II ASSESSMENT REPORT  
HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719  
CA #55520**

Prepared For:

**SCDHEC UNDERGROUND STORAGE TANK PROGRAM  
2600 BULL ST.  
COLUMBIA, SC 29201**

Submitted By:



P.O. BOX 25  
SUMMERVILLE, SOUTH CAROLINA 29484  
(843) 873-8200  
Fax (843) 225-3472  
[www.terryenvironmental.com](http://www.terryenvironmental.com)

UST CONTRACTOR #UCC-0223  
TERRY PROJECT #2230.8I

Handwritten signature of Kelly K. Cone in blue ink.

**Kelly K. Cone, PG  
Project Manager**

Handwritten signature of Jason A. Terry in blue ink.

---

**Jason A. Terry, PG  
President**

**AUGUST 2018**



**TABLE OF CONTENTS**

| SECTION | DESCRIPTION   | PAGE |
|---------|---|------|
| A.      | INTRODUCTION  | 1    |
| 1.      | UST Facility and Owner/Operator Information               | 1    |
| 2.      | Property Owner Information                                | 1    |
| 3.      | Contractor Information                                    | 1    |
| 4.      | Well Driller Information                                  | 1    |
| 5.      | Laboratory Information                                    | 1    |
| 6.      | Site History  | 1    |
| 7.      | Regional Geology and Hydrogeology                         | 2    |
| B.      | RECEPTOR SURVEY & SITE DATA                               | 3    |
| 1.      | Receptor Survey Results                                   | 3    |
| 2.      | Current Site and Adjacent Land Use                        | 3    |
| 3.      | Site-Specific Geology and Hydrogeology                    | 3    |
| C.      | SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY | 4    |
| 1.      | Soil Type & Field Screening Results                       | 4    |
| 2.      | Soil Sampling Methodology                                 | 4    |
| 3.      | Field Screening Methodology                               | 4    |
|         | C-3 Groundwater Field Delineation Data                    | 5    |
| D.      | MONITORING WELL INFORMATION                               | 6    |
| 1.      | Well Installation Details                                 | 6    |
| 2.      | Well Development Procedures                               | 6    |
| 3.      | Well Location Justification                               | 6    |
| E.      | GROUNDWATER DATA  | 7    |
| 1.      | Groundwater Sampling Methodology                          | 7    |
|         | E-1 Groundwater Measurements (No Purge Sampling)          | 8    |
| 2.      | Purging Methodology                                       | 9    |
|         | E-2 Groundwater Measurements (Purge Sampling)             | 10   |
| 3.      | Free Product Measurements                                 | 13   |
| F.      | AFVR INFORMATION  | 14   |
| G.      | GRANULATED ACTIVATED CARBON INSTALLATION                  | 14   |
| H.      | RESULTS & DISCUSSION                                      | 15   |
| 1.      | Assessment Results  | 15   |
| 2.      | Aquifer Evaluation Results                                | 16   |
| 2.1     | Hydraulic Conductivity and Transmissivity                 | 16   |
| 2.2     | Average Linear Flow Velocity and Hydraulic Gradient       | 16   |
| 3.      | Fate & Transport Results                                  | 17   |
| 4.      | Tier 1 Risk Evaluation                                    | 17   |
| 5.      | Tier 2 Risk Evaluation                                    | 17   |
| I.      | TABLES  | 18   |
| 1.      | Soil Laboratory Data                                      | 18   |
|         | Table 1 Soil Laboratory Data                              | 18   |
| 2.      | Potentiometric Data                                       | 18   |
|         | Table 2 Groundwater Potentiometric Data                   | 18   |
| 3.      | Laboratory Data   | 18   |
|         | Table 3 Groundwater Laboratory Data                       | 18   |

**TABLE OF CONTENTS (cont.)**

| SECTION | DESCRIPTION   | PAGE |
|---------|---|------|
|         | 4. Aquifer Characteristics _____  | 18   |
|         | 5. Site Conceptual Model _____  | 18   |
| J.      | FIGURES _____   | 19   |
|         | 1. Topographic Map _____  | 19   |
|         | Figure 1 Topographic Map _____  | 19   |
|         | 2. Site Base Map _____  | 19   |
|         | Figure 2 Site Base Map _____  | 19   |
|         | 3. CoC Site Maps _____  | 19   |
|         | Figure 3 Soil CoC Map _____   | 19   |
|         | Figure 4A Groundwater Field Delineation Map _____                       | 19   |
|         | Figure 4B Groundwater CoC Map _____                                     | 19   |
|         | Figure 4C Groundwater CoC Map (Oxygenates) _____                        | 19   |
|         | 4. Site Potentiometric Maps _____                                       | 19   |
|         | Figure 5 Site Potentiometric Map _____                                  | 19   |
|         | 5. Geologic Cross-Sections _____  | 19   |
|         | 6. Predicted Migration and Attenuation of CoCs _____                    | 19   |
| K.      | Appendices _____  | 20   |
|         | 1. Appendix A: Site Survey _____  | 20   |
|         | 2. Appendix B: Sampling Logs and Laboratory Data _____                  | 20   |
|         | 3. Appendix C: Tax Map _____  | 20   |
|         | 4. Appendix D: Soil Boring/Field Screening Logs/SCDHEC 1903 Forms _____ | 20   |
|         | 5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms _____             | 20   |
|         | 6. Appendix F: Aquifer Evaluation Forms _____                           | 20   |
|         | 7. Appendix G: Disposal Manifests _____                                 | 20   |
|         | 8. Appendix H: Local Zoning Regulations _____                           | 20   |
|         | 9. Appendix I: Fate and Transport Modeling Data _____                   | 20   |
|         | 10. Appendix J: Access Agreements _____                                 | 20   |
|         | 11. Appendix K: Data Verification Checklist _____                       | 20   |

## A. INTRODUCTION

### 1. UST Facility and Owner/Operator Information

Facility Name (Permit #): Hot Spot #3005 (12719)  
Facility Address: 107 Hampton Street, Chesnee, South Carolina 29323  
Facility Telephone: 864-461-4147  
  
Owner/ Operator Name: RL Jordan Oil Co. of NC (Contact: Ms. Cyndi Suttles)  
Owner/ Operator Address: PO Box 2527, Spartanburg, SC 29304  
Owner/ Operator Telephone: 864-585-2784

### 2. Property Owner Information

Name: EJ Enterprises Inc.  
Address: PO Box 2527, Spartanburg, SC 29304  
Telephone: 864-585-2784

### 3. Contractor Information

Name: Terry Environmental Services, Inc.  
Address: P.O. Box 25, Summerville, South Carolina 29484  
Telephone: 843-873-8200  
Certification: UCC-0223

### 4. Well Driller Information

Name: Terry Exploration Services, LLC  
Address: 222 Varnfield Drive, Suite F, Summerville, South Carolina 29483  
Telephone: 843-873-8200  
Certification: John S. Kerr (2128-B) / Langston Jones (2240-D)

Name: SAEDACCO  
Address: 9088 Northfield Drive, Fort Mill, SC 29707  
Telephone: 803-548-2180  
Certification: Robert Miller (1472-B) / Brian Ewing (1947-D)

### 5. Laboratory Information

Name: Shealy Environmental Services Inc. (Shealy)  
Address: 106 Vantage Point Drive, Columbia, SC 29172  
Telephone: 803-791-9700  
Certification: 32010

### 6. Site History

Date Release Reported to SCDHEC: August 4, 2003  
Estimated Quantity of Product Released: Unknown  
Cause of Release: Unknown  
Current use of Facility: Gas Station and Convenience Store (Hot Spot)

| UST #          | Product           | Date Installed | Currently In Use<br>(Yes or No) | If not in use, Date<br>Removed |
|----------------|-------------------|----------------|---------------------------------|--------------------------------|
| 1 (12,000 gal) | Unleaded Gasoline | 8/6/1990       | Yes                             | -                              |
| 2 (8,000 gal)  | Plus Gasoline     | 8/6/1990       | Yes                             | -                              |
| 3 (8,000 gal)  | Premium Gasoline  | 8/6/1990       | Yes                             | -                              |
| 4 (8,000 gal)  | Diesel            | 8/6/1990       | Yes                             | -                              |
| 5 (8,000 gal)  | Kerosene          | 8/6/1990       | Yes                             | -                              |
| 6(12,000 gal)  | Diesel            | 10/3/1991      | Yes                             | -                              |

Other Releases at this site?      Yes XXXX      No \_\_\_\_\_  
 If yes, Date Release Reported to SCDHEC      November 3, 1993  
**Status of Release:**      Feb. 2002 Brook & Medlock selected as CA contractor.  
 No Further Action Date:      N/A

### 7. Regional Geology and Hydrogeology

The Hot Spot #3005 site is located in Chesnee which lies in the Western Piedmont Province of South Carolina. The western piedmont is comprised of the Inner Piedmont block, the Smith River allochthon, and the Sauratwon Mountain window. The Inner Piedmont block encompasses the Inner Piedmont belt and the Chauga belt, and consists of a composite stack of thrust sheets containing a variety of gneisses, schists, amphibolites, sparse ultramafic bodies, and intrusive granitoids. (The Geology of the Carolinas, Horton & Zullo, 1991)

The Hot Spot #3005 site is located in the Inner Piedmont Belt which is characterized by granitic, biotitic, and hornblendic rocks. Generally, wells drilled in the Inner Piedmont Belt of Spartanburg County yield 1 to 250 gallons per minute (gpm). The highest average yields (35 gpm) were obtained from wells drilled in biotite gneiss and migmatite with the lowest average yields from wells drilled in quartz monzonite. The average yield of all wells inventoried was 20 gpm. The ground waters in Spartanburg County are of good to excellent quality for most domestic, municipal, and industrial uses. (USGS/SCWRC Report 3: Water Resources of Spartanburg County, South Carolina, 1970)

## **B. RECEPTOR SURVEY & SITE DATA**

### **1. Receptor Survey Results**

A receptor survey was not conducted during this scope of work.

### **2. Current Site and Adjacent Land Use**

Description of current site use (commercial, residential, rural, etc.):

Commercial; the site is operating as Hot Spot #3005, a gas station and convenience store.

---

Description of adjacent land use (commercial, residential, rural, etc.):

Commercial and residential.

---

UST sites within a 1,000-foot radius:

10122 Free Time Convenience Store

---

The site is located at 107 Hampton Street, Chesnee, South Carolina. The site is bordered to the north by a school, to the east by a vacant field, and to the south and west by commercial and residential properties. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map originating from a comprehensive survey completed by Jay S. Joshi (SC Registered Land Surveyor #14811) of Construction Support Services on June 6, 2018 is provided in Section J as Figure 2. A copy of the comprehensive survey completed by Jay S. Joshi is provided in Appendix A.

A SCDOT Encroachment Permit and several offsite access agreements were required to complete this scope of work. Copies of the approved Encroachment Permit from Spartanburg County and the signed access agreements obtained by TERRY are included in Appendix J.

### **3. Site-Specific Geology and Hydrogeology**

The site-specific stratigraphy generally consists of silt underlain by sandy silt in the deep wells. The Site Potentiometric Map (Figure 5, Section J) from the comprehensive groundwater sampling event indicates that shallow groundwater flow is generally to the west-southwest.

## **C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY**

### **1. Soil Type & Field Screening Results**

Based on the newly installed monitoring wells, the soil generally consists of silt underlain by sandy silt in the deep wells. Soil contamination was not assessed during this scope of work.

### **2. Soil Sampling Methodology**

Not Applicable. No soil samples were collected during this scope of work.

### **3. Field Screening Methodology**

Between January 24 and January 26, 2018 fifteen (15) Geoprobe™ groundwater borings totaling 557 feet were performed using direct-push Geoprobe™ machinery (GW-1 through GW-13, GW-1D, and GW-2D).

Based on the January 2018 groundwater field delineation data, additional shallow and deep borings were proposed and subsequently approved by the SCDHEC Project Manager in February 2018. However, several of the final well locations were proposed off site and required additional Right to Enters and/or a DOT Encroachment Permit to be secured.

Each boring was conducted by pushing/hammering a four (4) foot long groundwater sampler into the subsurface. Once the termination depth was reached the rods were retracted approximately 4 feet and the stainless-steel screen was exposed. A groundwater sample was taken from each of the shallow borings (GW-1 through GW-13) at or near the probe's terminal depth and from each interval of the deep borings (GW-1D and GW-2D) and submitted to a SCDHEC certified laboratory for quick screen analyses. GW-2D met boring refusal at approximately 55 feet bgs. Four (4) of the samples were subsequently analyzed for confirmation analyses. Soil Boring Logs are provided in Appendix D. A Groundwater Field Delineation Map indicating field screening locations and associated groundwater analytical results is provided in Section J as Figure 4A. Groundwater Field Delineation Data are provided in Appendix B and are summarized as follows:

| SECTION C-3<br>GROUNDWATER FIELD DELINEATION DATA<br>HOT SPOT #3005<br>CHESNEE, SOUTH CAROLINA<br>SCDHEC UST PERMIT #12719 |        |                   |                          |                             |                             |  |                                      |                 |                |                 |                 |              |
|--|--------|-------------------|--------------------------|-----------------------------|-----------------------------|--|--------------------------------------|-----------------|----------------|-----------------|-----------------|--------------|
| Boring Number  | Matrix | Total Depth (ft.) | Depth Sample Taken (ft.) | Date Performed              | Field Screening Depth (ft.) | QUICK SCREENING DATA                   | ANALYTICAL LABORATORY DATA           |                 |                |                 |                 |              |
|  |        |                   |                          |                             |                             | TOTAL BTEX, NAPH, & MTBE<br>ppb (ug/l) | PARAMETERS                           |                 |                |                 |                 |              |
|  |        |                   |                          |                             |                             |  | Benzene<br>ug/l                      | Toluene<br>ug/l | Ethyl.<br>ug/l | Xylenes<br>ug/l | Naphth.<br>ug/l | MTBE<br>ug/l |
| 12719-GW1  | WATER  | 34                | 34                       | 1/25/2018                   | 30-34                       | 2.7                                    | Field Screened - Sample Not Analyzed |                 |                |                 |                 |              |
| 12719-GW2  | WATER  | 34                | 34                       | 1/24/2018                   | 30-34                       | 6.7                                    | <1.0                                 | 0.51J           | <1.0           | 6.6             | 5.1             | <1.0         |
| 12719-GW3  | WATER  | 34                | 34                       | 1/24/2018                   | 30-34                       | <1.0                                   | Field Screened - Sample Not Analyzed |                 |                |                 |                 |              |
| 12719-GW4  | WATER  | 34                | 34                       | 1/26/2018                   | 30-34                       | <1.0                                   | Field Screened - Sample Not Analyzed |                 |                |                 |                 |              |
| 12719-GW5  | WATER  | 34                | 34                       | 1/25/2018                   | 30-34                       | <1.0                                   | Field Screened - Sample Not Analyzed |                 |                |                 |                 |              |
| 12719-GW6  | WATER  | 34                | 34                       | 1/25/2018                   | 30-34                       | <1.0                                   | Field Screened - Sample Not Analyzed |                 |                |                 |                 |              |
| 12719-GW7  | WATER  | 34                | 34                       | 1/25/2018                   | 30-34                       | 0.5                                    | <5.0                                 | <5.0            | <5.0           | <5.0            | <5.0            | <5.0         |
| 12719-GW8  | WATER  | 34                | 34                       | 1/25/2018                   | 30-34                       | <1.0                                   | Field Screened - Sample Not Analyzed |                 |                |                 |                 |              |
| 12719-GW9  | WATER  | 34                | 34                       | 1/25/2018                   | 30-34                       | 0.4                                    | Field Screened - Sample Not Analyzed |                 |                |                 |                 |              |
| 12719-GW10   | WATER  | 34                | 34                       | 1/25/2018                   | 30-34                       | 0.6                                    | Field Screened - Sample Not Analyzed |                 |                |                 |                 |              |
| 12719-GW11   | WATER  | 34                | 34                       | 1/25/2018                   | 30-34                       | 0.5                                    | Field Screened - Sample Not Analyzed |                 |                |                 |                 |              |
| 12719-GW12   | WATER  | 34                | 34                       | 1/26/2018                   | 30-34                       | <1.0                                   | Field Screened - Sample Not Analyzed |                 |                |                 |                 |              |
| 12719-GW13   | WATER  | 34                | 34                       | 1/26/2018                   | 30-34                       | <1.0                                   | Field Screened - Sample Not Analyzed |                 |                |                 |                 |              |
| 12719-GW1D   | WATER  | --                | 50                       | 1/24/2018                   | 46-50                       | 0.5                                    | Field Screened - Sample Not Analyzed |                 |                |                 |                 |              |
| 12719-GW1D   | WATER  | --                | 55                       | 1/24/2018                   | 51-55                       | <1.0                                   | Field Screened - Sample Not Analyzed |                 |                |                 |                 |              |
| 12719-GW1D   | WATER  | 60                | 60                       | 1/24/2018                   | 56-60                       | 0.5                                    | <1.0                                 | 0.47J           | <1.0           | <1.0            | <1.0            | <1.0         |
| 12719-GW2D   | WATER  | --                | 50                       | 1/26/2018                   | 46-50                       | 40                                     | Field Screened - Sample Not Analyzed |                 |                |                 |                 |              |
| 12719-GW2D   | WATER  | 55                | Ref@55                   | 1/26/2018                   | 51-55                       | 32                                     | 13                                   | 5.8             | <1.0           | 1.4             | <1.0            | 4.7          |
|  |        | <b>557</b>        |                          | <b>TOTAL BORING FOOTAGE</b> |                             |  |                                      |                 |                |                 |                 |              |
| GW RBSL  | --     | --                | --                       | --                          | --                          | --                                     | 5                                    | 1,000           | 700            | 10,000          | 25              | 40           |

**NOTES:**

- ug/l MICROGRAMS PER LITER (PARTS PER BILLION)
- J INDICATES AN ESTIMATED VALUE
- 13** BOLD INDICATES VALUE EXCEEDS RBSL
- PARAMETER WAS NOT TESTED OR NOT APPLICABLE
- @BR AT BORING REFUSAL

GW RBSL UNITS ARE IN UG/L



## **D. MONITORING WELL INFORMATION**

### **1. Well Installation Details**

Based on the field screening results, monitoring well locations were proposed and subsequently approved by SCDHEC UST Project Manager, Kyle Patterson. At the commencement of the drilling activities two additional wells were uncovered in the source area MW-1R and MW-3. Existing well MW-2 was gauged and determined to be damaged below grade. After discussion with the DHEC Project Manager it was decided to abandon MW-1, MW-2, and MW-3 and replace MW-2. Between May 7 and May 11, 2018, nine (9) shallow monitoring wells (MW-17 through MW-25), two (2) shallow replacement monitoring wells (MW-2R and MW-8R), three (3) 4" recovery wells (RW-1 through RW-3), and two (2) telescoping deep monitoring well (DW-2 and DW-3) were installed by SAEDACCO. Monitoring wells MW-1, MW-2, and MW-3 were properly abandoned by TERRY Exploration Services, LLC on May 30, 2018. The shallow and single-cased deep monitoring wells were installed using hollow stem auger (HSA) techniques and the telescoping deep wells were installed using mud rotary techniques. All well installations were performed in accordance with the S.C. Well Standards and Regulations. Well Construction Logs are provided in Appendix E. The soil cuttings were initially stored in 55-gallon drums onsite and were properly disposed of by JBR Environmental Services on May 30, 2018. The disposal manifests are provided in Appendix G.

### **2. Well Development Procedures**

Between May 9 and May 29, 2018 TERRY personnel developed the newly installed monitoring wells. A surge block and a clean purge pump with new, disposable tubing was utilized for developing the wells. In accordance with the SCDHEC UST QAPP, Revision 3.1, development is complete once pH, specific conductance, and temperature of the groundwater have stabilized, and turbidity has either stabilized or is below 10 nephelometric turbidity units (NTUs). The Well Development Logs and the calibration data are provided in Appendix E. The well development water generated was initially stored in 55-gallon drums onsite and were properly disposed of by JBR Environmental Services on May 30, 2018.

### **3. Well Location Justification**

The shallow monitoring wells (MW-2R, MW-8R, and MW-17 through MW-25) were installed to further horizontally delineate the contaminant plume. The deep monitoring wells (DW-2 and DW-3) were installed to delineate the vertical migration of the contaminant plume. The recovery wells (RW-1 through RW-3) were installed for future Aggressive Fluid Vapor Recovery (AFVR) Events. The new wells will also provide future access for monitoring the plume migration.

## **E. GROUNDWATER DATA**

### **1. Groundwater Sampling Methodology**

TERRY conducted a comprehensive groundwater sampling event on May 29 and May 30, 2018. Just prior to the sampling event, all monitoring wells were gauged with an oil/water interface probe to determine depth to groundwater measurements and the presence or absence of free-phase petroleum. Water level was recorded to the nearest 0.01 foot and total well depth was recorded to the nearest 0.1 foot. Monitoring well MW-11R was obstructed by standing water. Surface water sample (SW-1) was also collected on May 30, 2018 from the tributary located approximately 575 feet south of the subject site.

Sampling was conducted from the least contaminated wells to the most contaminated wells based on the previous assessment data. A clean purge pump with new disposable tubing was utilized for purging the wells with large casing volumes and/or adequate recharge rates. Groundwater samples were collected from each monitoring well with a new disposable bailer. Bailers with new colorless nylon rope were slowly lowered into the top of the water column, allowed to fill, and slowly removed to minimize turbidity and disturbance of the volatile organic compounds (VOCs). The surface water sample was collected with a new disposable bailer.

Trip blanks, field blanks, and field duplicates were prepared or collected in accordance with the SCDHEC UST QAPP, Revision 3.1. One trip blank was shipped with each cooler and analyzed for VOCs. One field blank was collected for the sampling event and analyzed for VOCs. One field duplicate was collected for each batch of twenty samples and analyzed for VOCs.

Samples were immediately packed in a cooler of ice and proper temperatures were maintained in accordance with the SCDHEC UST QAPP, Revision 3.1 and the site-specific Addendum. At the completion of the sampling event, the samples were submitted to a SCDHEC certified laboratory for analyses. The samples were analyzed for Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, Methyl Tertiary Butyl Ether, 1,2-Dichloroethane, Oxygenates, and Ethanol.

Field conditions were documented throughout the sampling event. All field measurement equipment was properly cleaned and decontaminated before use, between each well, and prior to site departure in accordance with "Appendix H: Standard Field Cleaning Procedures" of the SCDHEC UST QAPP, Revision 3.1. By-products were initially stored onsite in 55-gallon drums. The water generated was transported to US Water Recovery for disposal and the disposal manifest is provided in Appendix G. The field measurement equipment was properly calibrated prior to the sampling event and verified after four (4) hours of use and at the completion of the event. The calibration data for the sampling event is provided in Appendix B.

Depth to groundwater measurements were taken with reference to the top of well casing (TOC) and converted to elevations by subtracting the depth to groundwater measurements from the TOC elevations. Potentiometric data are provided in Section I as Table 2 and on the Groundwater Sampling Logs provided in Appendix B. The groundwater measurements collected during the sampling event for the no-purge wells are provided as follows:

| <b>SECTION E -1<br/>                     GROUNDWATER MEASUREMENTS (NO PURGE SAMPLING)<br/>                     HOT SPOT #3005<br/>                     CHESNEE, SOUTH CAROLINA<br/>                     SCDHEC UST PERMIT #12719</b> |           |                                    |                      |                   |           |                  |
|--|-----------|------------------------------------|----------------------|-------------------|-----------|------------------|
| Well   | Date      | pH                                 | Specific Conductance | Water Temperature | Turbidity | Dissolved Oxygen |
| Units  | --        | su                                 | mS/cm                | °C                | NTU       | mg/L             |
| 12719-MW1  | 5/30/2018 | 8.30                               | 0.252                | 24.3              | 2.8       | 2.55             |
| 12719-MW1R   | 5/30/2018 | 6.81                               | 0.249                | 24.5              | 6.1       | 2.32             |
| 12719-MW2  | 5/30/2018 | Well Abandoned                     |                      |                   |           |                  |
| 12719-MW3  | 5/30/2018 | 6.47                               | 0.358                | 24.0              | 0.6       | 4.04             |
| 12719-MW3R   | 5/30/2018 | 6.29                               | 0.079                | 22.9              | 1.2       | 3.49             |
| 12719-MW5  | 5/30/2018 | 6.93                               | 0.108                | 25.2              | 175       | 4.37             |
| 12719-MW6  | 5/30/2018 | 5.24                               | 0.223                | 23.0              | 27.5      | 2.73             |
| 12719-MW8  | 5/30/2018 | Could Not Find - Assumed Destroyed |                      |                   |           |                  |
| 12719-MW10   | 5/29/2018 | 4.08                               | 0.059                | 20.9              | 3.7       | 1.81             |
| 12719-MW11   | 5/29/2018 | 4.54                               | 0.048                | 20.5              | 0.0       | 2.61             |
| 12719-MW11R  | 5/29/2018 | Obstructed                         |                      |                   |           |                  |
| 12719-MW12   | 5/29/2018 | 5.05                               | 0.102                | 21.4              | 1.4       | 3.44             |
| 12719-MW13   | 5/29/2018 | 5.29                               | 0.083                | 22.0              | 10.0      | 3.91             |
| 12719-MW14   | 5/29/2018 | 6.49                               | 0.169                | 22.9              | 103       | 2.85             |
| 12719-MW15   | 5/29/2018 | 6.00                               | 0.057                | 22.3              | 130       | 2.80             |
| 12719-MW16   | 5/29/2018 | 5.34                               | 0.099                | 22.7              | 212       | 2.18             |

**NOTES/KEY:**

- su = standard unit
- mS/cm = milliSiemens per centimeter
- NTU = nephelometric turbidity units
- mg/L = milligrams per liter

## **2. Purging Methodology**

Purging was conducted from the least contaminated wells to the most contaminated wells based on the previous sampling data. Prior to purging, new plastic sheeting was placed on the ground surface around the well to prevent contamination of pumps, hoses, meters, etc. When utilized, the purge pump was lowered approximately 3-5 feet into the standing water column and adjusted only if the pumping rate exceeded the recovery rate as drawdown occurred. For monitoring wells with smaller casing volumes, a new disposable bailer was utilized for purging. When utilized, bailers with new colorless nylon rope were slowly lowered into the top of the water column, allowed to fill, and slowly removed to minimize turbidity and disturbance of the VOCs. In accordance with the SCDHEC UST QAPP, Revision 3.1, an adequate purge was achieved when pH, specific conductance, and temperature of the groundwater stabilized, and turbidity either stabilized or was below 10 nephelometric turbidity units (NTUs). The purge water generated was initially stored onsite in 55-gallon drums. The water generated was transported to US Water Recovery for disposal and the disposal manifest is provided in Appendix G.

If a well was pumped or purged dry, even with reduced purge rates, the well was considered adequately purged per the SCDHEC UST QAPP, Revision 3.1. The sample was collected immediately following sufficient recovery to fill all sampling containers. The groundwater measurements collected during the sampling event for the purged wells are provided as follows:

| SECTION E -2<br>GROUNDWATER MEASUREMENTS (PURGE SAMPLING)<br>HOT SPOT #3005<br>CHESNEE, SOUTH CAROLINA<br>SCDHEC UST PERMIT #12719 |                  |       |       |             |                 |  |
|--|------------------|-------|-------|-------------|-----------------|--|
| <b>12719-MW2R</b>  | <b>5/30/2018</b> |       |       |             |                 |  |
| Volume (gal)   | Intitial         | 0.75  | 1.5   | 2.25/Sample | Duplicate (DUP) |  |
| Time (military)  | 1745             | 1747  | 1749  | 1751        | 1753            |  |
| pH (su)  | 5.85             | 5.33  | 5.34  | 5.33        |                 |  |
| Spec Conductivity (mS/cm)  | 0.205            | 0.303 | 0.304 | 0.304       |                 |  |
| Water Temperature (°C)   | 23.4             | 25.2  | 25.2  | 25.2        |                 |  |
| Turbidity (NTU)  | 0.9              | 26.9  | 27.3  | 27.5        |                 |  |
| Dissolved Oxygen (mg/L)  | 4.21             | 2.74  | 2.73  | 2.73        |                 |  |
| <b>12719-MW4</b>   | <b>5/30/2018</b> |       |       |             |                 |  |
| Volume (gal)   | Intitial         | 3.5   | 7     | 10.5/Sample |                 |  |
| Time (military)  | 1612             | 1616  | 1620  | 1624        |                 |  |
| pH (su)  | 6.65             | 7.26  | 7.28  | 7.28        |                 |  |
| Spec Conductivity (mS/cm)  | 0.231            | 0.238 | 0.239 | 0.239       |                 |  |
| Water Temperature (°C)   | 24.9             | 23.7  | 23.7  | 23.7        |                 |  |
| Turbidity (NTU)  | 27.5             | 11.9  | 12.5  | 12.7        |                 |  |
| Dissolved Oxygen (mg/L)  | 3.94             | 2.44  | 2.46  | 2.45        |                 |  |
| <b>12719-MW7</b>   | <b>5/29/2018</b> |       |       |             |                 |  |
| Volume (gal)   | Intitial         | 2.0   | 4.0   | 6.0/Sample  |                 |  |
| Time (military)  | 1845             | 1849  | 1853  | 1857        |                 |  |
| pH (su)  | 5.00             | 4.93  | 4.92  | 4.92        |                 |  |
| Spec Conductivity (mS/cm)  | 0.050            | 0.050 | 0.050 | 0.050       |                 |  |
| Water Temperature (°C)   | 21.0             | 21.6  | 21.6  | 21.6        |                 |  |
| Turbidity (NTU)  | 6.6              | 44.9  | 45.0  | 44.6        |                 |  |
| Dissolved Oxygen (mg/L)  | 2.65             | 2.91  | 2.90  | 2.90        |                 |  |
| <b>12719-MW8R</b>  | <b>5/29/2018</b> |       |       |             |                 |  |
| Volume (gal)   | Intitial         | 1.5   | 3.0   | 4.5/Sample  |                 |  |
| Time (military)  | 1810             | 1813  | 1816  | 1820        |                 |  |
| pH (su)  | 4.56             | 4.16  | 4.18  | 4.19        |                 |  |
| Spec Conductivity (mS/cm)  | 0.031            | 0.034 | 0.035 | 0.035       |                 |  |
| Water Temperature (°C)   | 20.8             | 20.7  | 20.7  | 20.7        |                 |  |
| Turbidity (NTU)  | 31.2             | 320   | 317   | 316         |                 |  |
| Dissolved Oxygen (mg/L)  | 2.49             | 2.66  | 2.65  | 2.65        |                 |  |
| <b>12719-MW9</b>   | <b>5/29/2018</b> |       |       |             |                 |  |
| Volume (gal)   | Intitial         | 1.75  | 3.5   | 5.25/Sample |                 |  |
| Time (military)  | 1827             | 1830  | 1833  | 1836        |                 |  |
| pH (su)  | 5.12             | 5.30  | 5.32  | 5.33        |                 |  |
| Spec Conductivity (mS/cm)  | 0.072            | 0.040 | 0.037 | 0.036       |                 |  |
| Water Temperature (°C)   | 20.8             | 21.2  | 21.2  | 21.2        |                 |  |
| Turbidity (NTU)  | 10.3             | 403   | 400   | 399         |                 |  |
| Dissolved Oxygen (mg/L)  | 2.27             | 2.56  | 2.55  | 2.55        |                 |  |
| <b>12719-MW10R</b>   | <b>5/29/2018</b> |       |       |             |                 |  |
| Volume (gal)   | Intitial         | 1.75  | 3.5   | 5.25/Sample |                 |  |
| Time (military)  | 1753             | 1756  | 1759  | 1804        |                 |  |
| pH (su)  | 4.43             | 4.30  | 4.33  | 4.33        |                 |  |
| Spec Conductivity (mS/cm)  | 0.058            | 0.058 | 0.058 | 0.058       |                 |  |
| Water Temperature (°C)   | 20.1             | 20.9  | 20.9  | 20.9        |                 |  |
| Turbidity (NTU)  | 5.5              | 441   | 460   | 452         |                 |  |
| Dissolved Oxygen (mg/L)  | 2.56             | 1.99  | 1.96  | 1.95        |                 |  |

| <b>12719-MW17</b>         |         | <b>5/30/2018</b> |       |            |  |  |  |
|---------------------------|---------|------------------|-------|------------|--|--|--|
| Volume (gal)              | Initial | 1                | 2     | 3/Sample   |  |  |  |
| Time (military)           | 1504    | 1506             | 1508  | 1510       |  |  |  |
| pH (su)                   | 5.33    | 5.58             | 5.60  | 5.60       |  |  |  |
| Spec Conductivity (mS/cm) | 0.044   | 0.043            | 0.043 | 0.043      |  |  |  |
| Water Temperature (°C)    | 22.8    | 24.1             | 24.1  | 24.1       |  |  |  |
| Turbidity (NTU)           | 14.8    | 427              | 412   | 410        |  |  |  |
| Dissolved Oxygen (mg/L)   | 3.82    | 3.90             | 3.92  | 3.92       |  |  |  |
| <b>12719-MW18</b>         |         | <b>5/30/2018</b> |       |            |  |  |  |
| Volume (gal)              | Initial | 1.00             | 2.0   | 3.0/Sample |  |  |  |
| Time (military)           | 1415    | 1417             | 1419  | 1421       |  |  |  |
| pH (su)                   | 6.65    | 5.77             | 5.76  | 5.76       |  |  |  |
| Spec Conductivity (mS/cm) | 0.080   | 0.072            | 0.071 | 0.071      |  |  |  |
| Water Temperature (°C)    | 22.6    | 22.8             | 22.8  | 22.8       |  |  |  |
| Turbidity (NTU)           | 5.4     | 418              | 416   | 414        |  |  |  |
| Dissolved Oxygen (mg/L)   | 6.31    | 4.29             | 4.20  | 4.21       |  |  |  |
| <b>12719-MW19</b>         |         | <b>5/29/2018</b> |       |            |  |  |  |
| Volume (gal)              | Initial | 1.0              | 2.0   | 3.0/Sample |  |  |  |
| Time (military)           | 1456    | 1459             | 1502  | 1505       |  |  |  |
| pH (su)                   | 5.09    | 4.60             | 4.65  | 4.66       |  |  |  |
| Spec Conductivity (mS/cm) | 0.111   | 0.087            | 0.083 | 0.082      |  |  |  |
| Water Temperature (°C)    | 22.1    | 21.5             | 21.5  | 21.5       |  |  |  |
| Turbidity (NTU)           | 111     | 477              | 462   | 460        |  |  |  |
| Dissolved Oxygen (mg/L)   | 5.02    | 4.42             | 4.38  | 4.40       |  |  |  |
| <b>12719-MW20</b>         |         | <b>5/29/2018</b> |       |            |  |  |  |
| Volume (gal)              | Initial | 1.0              | 2.0   | 3.0/Sample |  |  |  |
| Time (military)           | 1511    | 1514             | 1517  | 1520       |  |  |  |
| pH (su)                   | 4.87    | 5.00             | 5.09  | 5.09       |  |  |  |
| Spec Conductivity (mS/cm) | 0.091   | 0.077            | 0.071 | 0.071      |  |  |  |
| Water Temperature (°C)    | 22.7    | 21.4             | 21.4  | 21.4       |  |  |  |
| Turbidity (NTU)           | 72.0    | 85.1             | 86.9  | 87.3       |  |  |  |
| Dissolved Oxygen (mg/L)   | 3.18    | 2.90             | 2.89  | 2.86       |  |  |  |
| <b>12719-MW21</b>         |         | <b>5/29/2018</b> |       |            |  |  |  |
| Volume (gal)              | Initial | 1.0              | 2.0   | 3.0/Sample |  |  |  |
| Time (military)           | 1526    | 1529             | 1532  | 1535       |  |  |  |
| pH (su)                   | 5.06    | 4.87             | 4.90  | 4.91       |  |  |  |
| Spec Conductivity (mS/cm) | 0.089   | 0.071            | 0.069 | 0.068      |  |  |  |
| Water Temperature (°C)    | 22.8    | 23.5             | 23.5  | 23.5       |  |  |  |
| Turbidity (NTU)           | 129     | 211              | 216   | 214        |  |  |  |
| Dissolved Oxygen (mg/L)   | 3.11    | 2.89             | 2.82  | 2.85       |  |  |  |
| <b>12719-MW22</b>         |         | <b>5/30/2018</b> |       |            |  |  |  |
| Volume (gal)              | Initial | 1                | 2     | 3/Sample   |  |  |  |
| Time (military)           | 1542    | 1544             | 1546  | 1548       |  |  |  |
| pH (su)                   | 5.43    | 5.33             | 5.32  | 5.32       |  |  |  |
| Spec Conductivity (mS/cm) | 0.065   | 0.065            | 0.065 | 0.065      |  |  |  |
| Water Temperature (°C)    | 23.2    | 23.5             | 23.5  | 23.5       |  |  |  |
| Turbidity (NTU)           | 25.1    | 371              | 366   | 369        |  |  |  |

| <b>12719-MW23</b>         |         | <b>5/30/2018</b> |       |              |                 |  |  |
|---------------------------|---------|------------------|-------|--------------|-----------------|--|--|
| Volume (gal)              | Initial | 1                | 2     | 3/Sample     |                 |  |  |
| Time (military)           | 1450    | 1452             | 1454  | 1456         |                 |  |  |
| pH (su)                   | 5.32    | 5.36             | 5.37  | 5.37         |                 |  |  |
| Spec Conductivity (mS/cm) | 0.065   | 0.054            | 0.056 | 0.057        |                 |  |  |
| Water Temperature (°C)    | 22.8    | 23.0             | 23.0  | 23.0         |                 |  |  |
| Turbidity (NTU)           | 55.6    | 411              | 403   | 401          |                 |  |  |
| Dissolved Oxygen (mg/L)   | 2.00    | 2.08             | 2.09  | 2.09         |                 |  |  |
| <b>12719-MW24</b>         |         | <b>5/30/2018</b> |       |              |                 |  |  |
| Volume (gal)              | Initial | 1.25             | 2.5   | 3.75/Sample  |                 |  |  |
| Time (military)           | 1231    | 1234             | 1237  | 1240         |                 |  |  |
| pH (su)                   | 6.89    | 7.01             | 7.04  | 7.05         |                 |  |  |
| Spec Conductivity (mS/cm) | 0.119   | 0.116            | 0.116 | 0.116        |                 |  |  |
| Water Temperature (°C)    | 24.1    | 24.5             | 24.5  | 24.5         |                 |  |  |
| Turbidity (NTU)           | 11.6    | 28.6             | 27.9  | 27.7         |                 |  |  |
| Dissolved Oxygen (mg/L)   | 3.01    | 3.32             | 3.30  | 3.30         |                 |  |  |
| <b>12719-MW25</b>         |         | <b>5/30/2018</b> |       |              |                 |  |  |
| Volume (gal)              | Initial | 1.0              | 2.0   | 3.0/Sample   |                 |  |  |
| Time (military)           | 0914    | 0916             | 0918  | 0920         |                 |  |  |
| pH (su)                   | 5.09    | 5.19             | 5.20  | 5.20         |                 |  |  |
| Spec Conductivity (mS/cm) | 0.182   | 0.190            | 0.192 | 0.192        |                 |  |  |
| Water Temperature (°C)    | 22.1    | 23.4             | 23.4  | 23.4         |                 |  |  |
| Turbidity (NTU)           | 6.9     | 60.9             | 61.7  | 62.0         |                 |  |  |
| Dissolved Oxygen (mg/L)   | 2.99    | 3.35             | 3.36  | 3.36         |                 |  |  |
| <b>12719-RW1</b>          |         | <b>5/30/2018</b> |       |              |                 |  |  |
| Volume (gal)              | Initial | 2.5              | 5.0   | 7.5/Sample   |                 |  |  |
| Time (military)           | 1732    | 1734             | 1738  | 1742         |                 |  |  |
| pH (su)                   | 5.71    | 5.82             | 5.83  | 5.83         |                 |  |  |
| Spec Conductivity (mS/cm) | 0.414   | 0.421            | 0.422 | 0.422        |                 |  |  |
| Water Temperature (°C)    | 25.1    | 23.5             | 23.5  | 23.5         |                 |  |  |
| Turbidity (NTU)           | 0.7     | 110              | 113   | 112          |                 |  |  |
| Dissolved Oxygen (mg/L)   | 3.71    | 3.04             | 3.06  | 3.05         |                 |  |  |
| <b>12719-RW2</b>          |         | <b>5/30/2018</b> |       |              |                 |  |  |
| Volume (gal)              | Initial | 2.5              | 5.0   | 7.5/Sample   |                 |  |  |
| Time (military)           | 1720    | 1723             | 1726  | 1730         |                 |  |  |
| pH (su)                   | 4.77    | 6.50             | 6.50  | 6.49         |                 |  |  |
| Spec Conductivity (mS/cm) | 0.396   | 0.137            | 0.136 | 0.136        |                 |  |  |
| Water Temperature (°C)    | 26.3    | 24.7             | 24.7  | 24.7         |                 |  |  |
| Turbidity (NTU)           | 9.6     | 12.1             | 12.2  | 12.2         |                 |  |  |
| Dissolved Oxygen (mg/L)   | 4.22    | 3.40             | 3.40  | 3.39         |                 |  |  |
| <b>12719-RW3</b>          |         | <b>5/30/2018</b> |       |              |                 |  |  |
| Volume (gal)              | Initial | 3.75             | 7.5   | 11.25/Sample | Duplicate (DUP) |  |  |
| Time (military)           | 1642    | 1646             | 1650  | 1655         | 1657            |  |  |
| pH (su)                   | 5.68    | 5.67             | 5.65  | 5.65         |                 |  |  |
| Spec Conductivity (mS/cm) | 0.158   | 0.176            | 0.178 | 0.179        |                 |  |  |
| Water Temperature (°C)    | 24.7    | 23.7             | 23.7  | 23.7         |                 |  |  |
| Turbidity (NTU)           | 11.2    | 45.7             | 47.3  | 47.5         |                 |  |  |
| Dissolved Oxygen (mg/L)   | 4.55    | 3.50             | 3.53  | 3.51         |                 |  |  |

| <b>12719-MW1D</b>         |         | <b>5/30/2018</b> |       |              |  |  |
|---------------------------|---------|------------------|-------|--------------|--|--|
| Volume (gal)              | Initial | 5.25             | 10.50 | 15.75/Sample |  |  |
| Time (military)           | 1815    | 1818             | 1821  | 1824         |  |  |
| pH (su)                   | 6.64    | 6.35             | 6.33  | 6.33         |  |  |
| Spec Conductivity (mS/cm) | 0.077   | 0.074            | 0.074 | 0.074        |  |  |
| Water Temperature (°C)    | 24.6    | 23.1             | 23.1  | 23.1         |  |  |
| Turbidity (NTU)           | 13.9    | 19.7             | 19.8  | 19.8         |  |  |
| Dissolved Oxygen (mg/L)   | 4.00    | 4.02             | 4.03  | 4.03         |  |  |
| <b>12719-DW2</b>          |         | <b>5/30/2018</b> |       |              |  |  |
| Volume (gal)              | Initial | 5.0              | 10.0  | 15.0/Sample  |  |  |
| Time (military)           | 0945    | 0950             | 0955  | 1000         |  |  |
| pH (su)                   | 11.01   | 11.74            | 11.75 | 11.76        |  |  |
| Spec Conductivity (mS/cm) | 0.599   | 0.694            | 0.694 | 0.694        |  |  |
| Water Temperature (°C)    | 24.5    | 24.8             | 24.8  | 24.8         |  |  |
| Turbidity (NTU)           | 11.0    | 24.8             | 24.9  | 24.9         |  |  |
| Dissolved Oxygen (mg/L)   | 3.06    | 3.26             | 3.25  | 3.24         |  |  |
| <b>12719-DW3</b>          |         | <b>5/30/2018</b> |       |              |  |  |
| Volume (gal)              | Initial | 0.75             | 1.5   | 2.25/Sample  |  |  |
| Time (military)           | 1326    | 1329             | 1332  | 1335         |  |  |
| pH (su)                   | 9.92    | 10.20            | 10.21 | 10.21        |  |  |
| Spec Conductivity (mS/cm) | 0.989   | 1.03             | 1.02  | 1.01         |  |  |
| Water Temperature (°C)    | 23.7    | 25.2             | 25.2  | 25.2         |  |  |
| Turbidity (NTU)           | 3.6     | 216              | 220   | 213          |  |  |
| Dissolved Oxygen (mg/L)   | 4.67    | 4.83             | 4.82  | 4.82         |  |  |

**NOTES/KEY:**

gal = gallons  
 su = standard unit  
 mS/cm = milliSiemens per centimeter  
 NTU = nephelometric turbidity units  
 mg/L = milligrams per liter

### 3. Free Product Measurements

No free-phase petroleum was measured during the sampling event.



**F. AFVR INFORMATION**

Not Applicable. No Aggressive Fluid Vapor Recovery (AFVR) Events were performed during this scope of work.

**G. GRANULATED ACTIVATED CARBON INSTALLATION**

Not Applicable. No granulated activated carbon units were installed during this scope of work.

## **H. RESULTS & DISCUSSION**

### **1. Assessment Results**

During this scope of work, TERRY conducted a Tier II Assessment in accordance with the SCDHEC UST QAPP, Revision 3.1 and the associated site-specific Work Plan submitted in September 2017. The data presented herein documents the horizontal and vertical delineation of the contaminant plume and provides a contaminant concentration and migration baseline for the site.

Thirteen (13) shallow direct-push groundwater borings and two (2) deep direct-push groundwater borings were performed between January 24 and January 26, 2018. Samples were collected at each location and submitted for laboratory analysis. Based on the field screening results, nine (9) shallow monitoring wells (MW-17 through MW-25), two (2) shallow replacement monitoring wells (MW-2R and MW-8R), three (3) 4" recovery wells (RW-1 through RW-3), and two (2) telescoping deep monitoring well (DW-2 and DW-3) were installed by SAEDACCO. Monitoring wells MW-1, MW-2, and MW-3 were properly abandoned by TERRY Exploration Services, LLC on May 30, 2018.

A comprehensive groundwater sampling event was conducted in May 2018. The groundwater laboratory data are summarized in Section I as Table 3, and are included in Appendix B. The analytical data were used to generate contaminant concentration maps for CoC's detected by the laboratory and are provided in Section J as Figures 4B and 4C. Based on the analytical data from the comprehensive sampling event, shallow groundwater contamination is observed onsite in the vicinity of the diesel UST basin (MW-1, MW-1R, MW-2R, RW-1, and RW-2), the gasoline UST basin (MW-3, MW-3R, and RW-3), and down gradient near the dispenser area (MW-16). With the addition of the new shallow monitoring wells the plume is now horizontally defined. The plume remains vertically defined in the source area and is now vertically defined downgradient with the installation of DW-2 and DW-3. The sample collected from the surface water location (SW-1) did not show evidence of petroleum contamination above RBSLs only minor concentrations of Naphthalene and MTBE.

TERRY recommends conducting two 96-hour AFVR Events utilizing the newly installed recovery wells to reduce dissolved phase contaminants in the source area.

## 2. Aquifer Evaluation Results

### 2.1 Hydraulic Conductivity & Transmissivity

On June 14, 2018 TERRY performed three (3) slug tests on monitoring wells MW-24, MW-25, and DW-2. The hydraulic conductivity (*K*) and transmissivity were calculated by the Bouwer-Rice graphical method. The calculated hydraulic conductivity 0.9198 ft/day for MW-24, 0.8999 ft/day for MW-25, and 2.241 ft/day for DW-2. The calculations are provided in Appendix F.

### 2.2 Average Linear Flow Velocity and Hydraulic Gradient

The hydraulic gradient is calculated by dividing the change in water table elevation between two points ( $\Delta h$ ) by the linear distance between the same two points ( $\Delta l$ ) and then relating this change to a third point (mid-point) between the original two points. Using this method, the hydraulic gradient was calculated for the site and is provided in Appendix F. The calculated gradient for the site is:

$$\text{MW-9, MW-13, MW-24} = 0.037 \text{ ft/ft}$$

Linear flow velocity is then calculated using the hydraulic gradient for the site and a modified form of Darcy's equation:

$$V = Ki/n$$

where:  $V$  = the average linear flow velocity (L/t)

$K$  = the hydraulic conductivity (L/t) (shallow well average)

$n$  = the estimated effective porosity (%) = 25% (assumed)

$i$  = the hydraulic gradient (L/L)

The linear flow velocity is calculated to be:

$$V = Ki/n$$

$$V = (0.9099 \text{ ft/day}) (0.037 \text{ ft/ft}) / .25$$

$$V = 0.1347 \text{ ft/day or } 49.17 \text{ ft/year}$$

This is used to represent the migration of COC through the soil towards the receptor. Aquifer calculations are provided in Appendix F on the Slug Test Summary and on the Hydraulic Gradient Map.

**3. Fate & Transport Results**

Not Applicable

**4. Tier 1 Risk Evaluation**

Not Applicable

**5. Tier 2 Risk Evaluation**

Not Applicable

**I. TABLES**

**1. Soil Laboratory Data**

Table 1 Soil Laboratory Data - Not Applicable

**2. Potentiometric Data**

Table 2 Groundwater Potentiometric Data - Attached

**3. Laboratory Data**

Table 3 Groundwater Laboratory Data - Attached

**4. Aquifer Characteristics**

Table 4 Aquifer Characteristics - Not Applicable

**5. Site Conceptual Model**

Table 5 Site Conceptual Model - Not Applicable

**TABLE 2  
GROUNDWATER POTENTIOMETRIC DATA  
HOT SPOT # 3005  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719**

| Well #     | DATE       | TOC Elevation | Screened Interval | Depth to Product** (ft)       | Depth to Water*** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |       |
|------------|------------|---------------|-------------------|-------------------------------|------------------------|------------------------|----------------------------|-------|
| 12719-MW1  | 8/18/2005  | 104.89        | 20'-30'           | --                            | 23.69                  | --                     | 81.20                      |       |
|            | 10/2/2008  | 104.89        | 20'-30'           | --                            | 29.77                  | --                     | 75.12                      |       |
|            | 10/31/2011 | 104.89        | 20'-30'           | --                            | 29.20                  | --                     | 75.69                      |       |
|            | 12/30/2014 | 104.89        | 20'-30'           | 25.87                         | 26.00                  | 0.13                   | 78.89                      |       |
|            | 7/25/2017  | 104.89        | 20'-30'           | 26.35                         | 26.46                  | 0.11                   | 78.43                      |       |
|            | 5/30/2018  | 104.89        | 20'-30'           | --                            | 26.45                  | --                     | 78.44                      |       |
|            | 5/30/2018  | 104.89        | 20'-30'           | Well Abandoned After Sampling |                        |                        |                            |       |
| 12719-MW1R | 5/30/2018  | 889.6         | TD 36'            | --                            | 26.18                  | --                     | 863.42                     |       |
| 12719-MW2  | 8/18/2005  | Unknown       | 26'-36'           | --                            | 23.69                  | --                     | --                         |       |
|            | 10/2/2008  |               | 26'-36'           | --                            | 29.61                  | --                     | --                         |       |
|            | 10/31/2011 |               | 26'-36'           | --                            | 29.03                  | --                     | --                         |       |
|            | 12/30/2014 |               | 26'-36'           | --                            | 25.41                  | --                     | --                         |       |
|            | 7/25/2017  |               | 26'-36'           | --                            | 26.16                  | --                     | --                         |       |
|            | 5/30/2018  | 26'-36'       | Well Abandoned    |                               |                        |                        |                            |       |
| 12719-MW2R | 5/30/2018  | 889.25        | 20'-30'           | --                            | 26.16                  | --                     | 863.09                     |       |
| 12719-MW3  | 5/30/2018  | Unknown       | TD 32'            | --                            | 29.00                  | --                     | --                         |       |
|            | 5/30/2018  |               | TD 32'            | Well Abandoned After Sampling |                        |                        |                            |       |
| 12719-MW3R | 8/18/2005  | 104.92        | 26'-36'           | --                            | 27.15                  | --                     | 77.77                      |       |
|            | 10/2/2008  |               | 26'-36'           | --                            | 32.40                  | --                     | 72.52                      |       |
|            | 10/31/2011 |               | 26'-36'           | --                            | 32.12                  | --                     | 72.80                      |       |
|            | 12/30/2014 |               | 26'-36'           | --                            | 28.56                  | --                     | 76.36                      |       |
|            | 7/25/2017  |               | 26'-36'           | --                            | 29.01                  | --                     | 75.91                      |       |
|            | 5/30/2018  | 890.25        | 26'-36'           | --                            | 29.21                  | --                     | 861.04                     |       |
| 12719-MW4  | 8/18/2005  | 111.32        | 36'-46'           | --                            | 23.25                  | --                     | 88.07                      |       |
|            | 10/2/2008  |               | 36'-46'           | --                            | 29.57                  | --                     | 81.75                      |       |
|            | 10/31/2011 |               | 36'-46'           | Not sampled                   |                        |                        |                            |       |
|            | 12/30/2014 |               | 36'-46'           | --                            | 23.95                  | --                     | 87.37                      |       |
|            | 7/25/2017  |               | 36'-46'           | --                            | 25.78                  | --                     | 85.54                      |       |
|            | 5/30/2018  | 896.27        | 36'-46'           | --                            | 25.45                  | --                     | 870.82                     |       |
| 12719-MW5  | 8/18/2005  | 103.57        | 22'-32'           | --                            | 29.03                  | --                     | 74.54                      |       |
|            | 10/2/2008  |               | 22'-32'           | --                            | 31.94                  | --                     | 71.63                      |       |
|            | 10/31/2011 |               | 22'-32'           | --                            | 31.80                  | --                     | 71.77                      |       |
|            | 12/30/2014 |               | 22'-32'           | --                            | 30.02                  | --                     | 73.55                      |       |
|            | 7/25/2017  |               | 22'-32'           | --                            | 30.51                  | --                     | 73.06                      |       |
|            | 5/30/2018  | 888.97        | 22'-32'           | --                            | 28.20                  | --                     | 860.77                     |       |
|            | 12719-MW6  | 8/18/2005     | 104.14            | 26'-36'                       | --                     | 24.22                  | --                         | 79.92 |
| 10/2/2008  |            | 26'-36'       |                   | --                            | 29.89                  | --                     | 74.25                      |       |
| 10/31/2011 |            | 26'-36'       |                   | --                            | 30.57                  | --                     | 73.57                      |       |
| 12/30/2014 |            | 26'-36'       |                   | --                            | 25.92                  | --                     | 78.22                      |       |
| 7/25/2017  |            | 26'-36'       |                   | --                            | 26.40                  | --                     | 77.74                      |       |
| 5/30/2018  |            | 889.14        | 26'-36'           | --                            | 26.50                  | --                     | 862.64                     |       |
| 12719-MW7  | 8/18/2005  | 104.52        | 26'-36'           | --                            | 22.74                  | --                     | 81.78                      |       |
|            | 10/2/2008  |               | 26'-36'           | --                            | 28.90                  | --                     | 75.62                      |       |
|            | 10/31/2011 |               | 26'-36'           | Not sampled                   |                        |                        |                            |       |
|            | 12/30/2014 |               | 26'-36'           | --                            | 23.89                  | --                     | 80.63                      |       |
|            | 7/25/2017  |               | 26'-36'           | --                            | 25.31                  | --                     | 79.21                      |       |
|            | 5/29/2018  | 889.52        | 26'-36'           | --                            | 25.32                  | --                     | 864.2                      |       |

**TABLE 2  
GROUNDWATER POTENTIOMETRIC DATA  
HOT SPOT # 3005  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719**

| Well #      | DATE       | TOC Elevation | Screened Interval | Depth to Product** (ft)            | Depth to Water*** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |
|-------------|------------|---------------|-------------------|------------------------------------|------------------------|------------------------|----------------------------|
| 12719-MW8   | 8/18/2005  | 101.79        | Unknown           | --                                 | 18.05                  | --                     | 83.74                      |
|             | 10/2/2008  |               | Unknown           | Well could not be located          |                        |                        |                            |
|             | 10/31/2011 |               | Unknown           | Not sampled                        |                        |                        |                            |
|             | 12/30/2014 |               | Unknown           | --                                 | 21.53                  | --                     | 80.26                      |
|             | 7/25/2017  |               | Unknown           | Could Not Find - Assumed Destroyed |                        |                        |                            |
|             | 5/30/2018  |               | Unknown           | Could Not Find - Assumed Destroyed |                        |                        |                            |
| 12719-MW8R  | 5/29/2018  | 888.01        | 20'-30'           | --                                 | 21.10                  | --                     | 866.91                     |
| 12719-MW9   | 8/18/2005  | 105.43        | Unknown           | --                                 | 22.95                  | --                     | 82.48                      |
|             | 10/2/2008  |               | Unknown           | --                                 | 29.38                  | --                     | 76.05                      |
|             | 10/31/2011 |               | Unknown           | Not sampled                        |                        |                        |                            |
|             | 12/30/2014 |               | Unknown           | --                                 | 24.02                  | --                     | 81.41                      |
|             | 7/25/2017  |               | Unknown           | --                                 | 25.22                  | --                     | 80.21                      |
|             | 5/29/2018  |               | 890.41            | Unknown                            | --                     | 25.26                  | --                         |
| 12719-MW10  | 8/18/2005  | 96.57         | 17'-27'           | --                                 | --                     | --                     | --                         |
|             | 10/31/2011 |               | 17'-27'           | Not sampled                        |                        |                        |                            |
|             | 12/30/2014 |               | 17'-27'           | Not sampled                        |                        |                        |                            |
|             | 5/29/2018  | 881.6         | 17'-27'           | --                                 | 21.24                  | --                     | 860.36                     |
| 12719-MW10R | 8/18/2005  | Unknown       | 22'-32'           | --                                 | 19.67                  | --                     | --                         |
|             | 10/2/2008  |               | 22'-32'           | --                                 | 24.50                  | --                     | --                         |
|             | 10/31/2011 |               | 22'-32'           | --                                 | 24.39                  | --                     | --                         |
|             | 12/30/2014 |               | 22'-32'           | --                                 | 21.13                  | --                     | --                         |
|             | 7/24/2017  |               | 22'-32'           | --                                 | 21.35                  | --                     | --                         |
|             | 5/29/2018  | 881.77        | 22'-32'           | --                                 | 21.42                  | --                     | 860.35                     |
| 12719-MW11  | 8/18/2005  | 95.15         | 18'-28'           | --                                 | --                     | --                     | --                         |
|             | 10/2/2008  |               | 18'-28'           | --                                 | 24.85                  | --                     | 70.30                      |
|             | 10/31/2011 |               | 18'-28'           | Not sampled                        |                        |                        |                            |
|             | 12/30/2014 |               | 18'-28'           | Not sampled                        |                        |                        |                            |
|             | 5/29/2018  | 880.2         | 18'-28'           | --                                 | 21.90                  | --                     | 858.3                      |
| 12719-MW11R | 8/18/2005  | Unknown       | 22'-32'           | --                                 | 20.68                  | --                     | --                         |
|             | 10/2/2008  |               | 22'-32'           | Well could not be located          |                        |                        |                            |
|             | 10/31/2011 |               | 22'-32'           | Not sampled                        |                        |                        |                            |
|             | 12/30/2014 |               | 22'-32'           | --                                 | 21.91                  | --                     | --                         |
|             | 7/24/2017  |               | 22'-32'           | --                                 | 22.50                  | --                     | --                         |
|             | 5/29/2018  | 880.33        | 22'-32'           | Obstructed                         |                        |                        |                            |
| 12719-MW12  | 8/18/2005  | 97.03         | 20'-30'           | --                                 | 19.57                  | --                     | 77.46                      |
|             | 10/2/2008  |               | 20'-30'           | --                                 | 25.35                  | --                     | 71.68                      |
|             | 10/31/2011 |               | 20'-30'           | Not sampled                        |                        |                        |                            |
|             | 12/30/2014 |               | 20'-30'           | --                                 | 21.37                  | --                     | 75.66                      |
|             | 7/24/2017  |               | 20'-30'           | --                                 | 21.10                  | --                     | 75.93                      |
|             | 5/29/2018  | 882.13        | 20'-30'           | --                                 | 20.91                  | --                     | 861.22                     |
| 12719-MW13  | 8/18/2005  | 95.89         | 17'-27'           | --                                 | 20.62                  | --                     | 75.27                      |
|             | 10/2/2008  |               | 17'-27'           | --                                 | 25.27                  | --                     | 70.62                      |
|             | 10/31/2011 |               | 17'-27'           | Not sampled                        |                        |                        |                            |
|             | 12/30/2014 |               | 17'-27'           | --                                 | 22.08                  | --                     | 73.81                      |
|             | 7/24/2017  |               | 17'-27'           | --                                 | 21.91                  | --                     | 73.98                      |
|             | 5/29/2018  | 880.92        | 17'-27'           | --                                 | 21.63                  | --                     | 859.29                     |

**TABLE 2  
GROUNDWATER POTENTIOMETRIC DATA  
HOT SPOT # 3005  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719**

| Well #     | DATE       | TOC Elevation | Screened Interval | Depth to Product** (ft) | Depth to Water** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |
|------------|------------|---------------|-------------------|-------------------------|-----------------------|------------------------|----------------------------|
| 12719-MW14 | 8/18/2005  | Unknown       | 21'-31'           | --                      | 24.84                 | --                     | --                         |
|            | 10/2/2008  |               | 21'-31'           | --                      | 28.46                 | --                     | --                         |
|            | 10/31/2011 |               | 21'-31'           | Not sampled             |                       |                        |                            |
|            | 12/30/2014 |               | 21'-31'           | --                      | 30.60                 | --                     | --                         |
|            | 7/25/2017  |               | 21'-31'           | --                      | 26.03                 | --                     | --                         |
|            | 5/29/2018  | 882.98        | 21'-31'           | --                      | 25.78                 | --                     | 857.2                      |
| 12719-MW15 | 7/25/2017  | 99.70         | 25'-35'           | --                      | 28.60                 | --                     | 71.10                      |
|            | 5/29/2018  | 885.13        | 25'-35'           | --                      | 28.20                 | --                     | 856.93                     |
| 12719-MW16 | 7/25/2017  | 101.75        | 28'-38'           | --                      | 30.43                 | --                     | 71.32                      |
|            | 5/29/2018  | 887.14        | 28'-38'           | --                      | 30.09                 | --                     | 857.05                     |
| 12719-MW17 | 5/30/2018  | 881.76        | 20'-30'           | --                      | 25.63                 | --                     | 856.13                     |
| 12719-MW18 | 5/30/2018  | 879.53        | 20'-30'           | --                      | 23.86                 | --                     | 855.67                     |
| 12719-MW19 | 5/29/2018  | 880.71        | 20'-30'           | --                      | 25.43                 | --                     | 855.28                     |
| 12719-MW20 | 5/29/2018  | 880.36        | 20'-30'           | --                      | 25.80                 | --                     | 854.56                     |
| 12719-MW21 | 5/29/2018  | 879.02        | 20'-30'           | --                      | 24.98                 | --                     | 854.04                     |
| 12719-MW22 | 5/30/2018  | 892.06        | 25'-35'           | --                      | 30.34                 | --                     | 861.72                     |
| 12719-MW23 | 5/30/2018  | 890.38        | 25'-35'           | --                      | 29.34                 | --                     | 861.04                     |
| 12719-MW24 | 5/30/2018  | 883.91        | 24'-34'           | --                      | 27.37                 | --                     | 856.54                     |
| 12719-MW25 | 5/30/2018  | 881.63        | 20'-30'           | --                      | 25.06                 | --                     | 856.57                     |
| 12719-RW1  | 5/30/2018  | 889.73        | 20'-30'           | --                      | 26.39                 | --                     | 863.34                     |
| 12719-RW2  | 5/30/2018  | 889.52        | 20'-30'           | --                      | 26.29                 | --                     | 863.23                     |
| 12719-RW3  | 5/30/2018  | 890.37        | 25'-35'           | --                      | 29.35                 | --                     | 861.02                     |
| 12719-MW1D | 8/18/2005  | 104.61        | 55'-60'           | --                      | 24.60                 | --                     | 80.01                      |
|            | 10/2/2008  |               | 55'-60'           | --                      | 30.46                 | --                     | 74.15                      |
|            | 10/31/2011 |               | 55'-60'           | --                      | 30.03                 | --                     | 74.58                      |
|            | 12/30/2014 |               | 55'-60'           | --                      | 26.82                 | --                     | 77.79                      |
|            | 7/25/2017  |               | 55'-60'           | --                      | 27.05                 | --                     | 77.56                      |
|            | 5/30/2018  | 889.64        | 55'-60'           | --                      | 27.07                 | --                     | 862.57                     |
| 12719-DW2  | 5/30/2018  | 887.23        | 55'-60'           | --                      | 30.44                 | --                     | 856.79                     |
| 12719-DW3  | 5/30/2018  | 883.42        | 60'-65'           | --                      | 61.60                 | --                     | 821.82                     |

\*\* = Relative to top of casing

-- = Not applicable

TD = Total depth



**TABLE 3  
GROUNDWATER LABORATORY DATA  
HOT SPOT #3005  
CHESNEE, SC  
SCDHEC UST PERMIT #12719**

| Well | Date        | Benzene      | Toluene      | Ethylbenzene | Xylenes       | Naphthalene  | MTBE         | 1,2 DCA  | EDB         | TAME       | TBA          | DIPE       | ETBE      | ETBA       | Ethanol       | TAA          | TBF        |
|------|-------------|--------------|--------------|--------------|---------------|--------------|--------------|----------|-------------|------------|--------------|------------|-----------|------------|---------------|--------------|------------|
|      | Units       | ug/L         | ug/L         | ug/L         | ug/L          | ug/L         | ug/L         | ug/L     | ug/L        | ug/L       | ug/L         | ug/L       | ug/L      | ug/L       | ug/L          | ug/L         | ug/L       |
|      | <b>RBSL</b> | <b>5</b>     | <b>1,000</b> | <b>700</b>   | <b>10,000</b> | <b>40</b>    | <b>25</b>    | <b>5</b> | <b>0.05</b> | <b>128</b> | <b>1,400</b> | <b>150</b> | <b>47</b> | <b>n/a</b> | <b>10,000</b> | <b>240</b>   | <b>n/a</b> |
|      | 8/18/2005   | 85           | 110          | 42           | 170           | 41           | <5.0         | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT           | NT         |
|      | 10/2/2008   |              |              |              |               |              |              |          |             |            |              |            |           |            |               |              |            |
|      | 10/31/2011  | <b>57.6</b>  | 1.93         | 36.8         | 176           | <b>91.4</b>  | 8.03         | <1.0     | NT          | <5.00      | <10.0        | <5.00      | <5.00     | <100       | <1,000        | 7.42J        | <5.00      |
|      | 12/30/2014  |              |              |              |               |              |              |          |             |            |              |            |           |            |               |              |            |
|      | 7/25/2017   |              |              |              |               |              |              |          |             |            |              |            |           |            |               |              |            |
|      | 5/30/2018   | <b>85</b>    | 4.4          | 81           | 240           | <b>100</b>   | <1.0         | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | 19J          | <5.0       |
|      | 5/30/2018   |              |              |              |               |              |              |          |             |            |              |            |           |            |               |              |            |
|      | 5/30/2018   |              |              |              |               |              |              |          |             |            |              |            |           |            |               |              |            |
|      | 5/30/2018   | <b>93</b>    | 9.3          | 89           | 420           | <b>79</b>    | <5.0         | <5.0     | NT          | <50        | <100         | <5.0       | <5.0      | <100       | <500          | <100         | <25        |
|      | 8/18/2005   | <b>90</b>    | 100          | 78           | 350           | <b>94</b>    | 8.9          | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT           | NT         |
|      | 10/2/2008   | <1.00        | <1.00        | <1.00        | <3.00         | <5.00        | <1.00        | <1.00    | <0.010      | NT         | NT           | NT         | NT        | NT         | NT            | NT           | NT         |
|      | 10/31/2011  | <1.00        | <1.00        | <1.00        | <3.00         | 2.23J        | 11.1         | <1.00    | NT          | <5.00      | <10.0        | <5.00      | <5.00     | <100       | <1,000        | 46.3         | <5.00      |
|      | 12/30/2014  | <b>100</b>   | 4.6          | 98           | 380           | <b>120</b>   | <1.0         | <1.0     | NT          | 0.25J      | <20          | <1.0       | <1.0      | <20        | <100          | <20          | <5.0       |
|      | 7/25/2017   | <b>64</b>    | 6.7          | 55           | 280           | <b>68</b>    | <5.0         | <5.0     | <0.020      | <50        | <100         | <5.0       | <5.0      | <100       | <500          | <100         | <25        |
|      | 5/30/2018   |              |              |              |               |              |              |          |             |            |              |            |           |            |               |              |            |
|      | 5/30/2018   |              |              |              |               |              |              |          |             |            |              |            |           |            |               |              |            |
|      | 5/30/2018   |              |              |              |               |              |              |          |             |            |              |            |           |            |               |              |            |
|      | 5/30/2018   | <b>5.4</b>   | <1.0         | 12           | 73            | 26           | <1.0         | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20          | <5.0       |
|      | 5/30/2018   | <b>5.1</b>   | <1.0         | 11           | 69            | 24           | <1.0         | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20          | <5.0       |
|      | 5/30/2018   |              |              |              |               |              |              |          |             |            |              |            |           |            |               |              |            |
|      | 5/30/2018   | <b>3,700</b> | <100         | 210          | 1,500         | <b>96J</b>   | <b>130</b>   | <100     | NT          | <1000      | <2,000       | 130        | <100      | <2,000     | <10,000       | <b>2,600</b> | <500       |
|      | 5/30/2018   |              |              |              |               |              |              |          |             |            |              |            |           |            |               |              |            |
|      | 8/18/2005   | <b>270</b>   | 41           | 170          | 880           | <b>430</b>   | <b>330</b>   | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT           | NT         |
|      | 10/2/2008   | <b>562</b>   | <25.0        | 272          | 261           | <b>96.5J</b> | <b>4,160</b> | <25.0    | <0.010      | NT         | NT           | NT         | NT        | NT         | NT            | NT           | NT         |
|      | 10/31/2011  | <b>196</b>   | <20.0        | 39.1         | 31.3J         | <b>143</b>   | <b>2,060</b> | <20.0    | NT          | <b>163</b> | 255          | 53.3J      | <100      | <2,000     | <20,000       | <b>282J</b>  | <100       |
|      | 12/30/2014  | <b>1,300</b> | 38           | 77           | 530           | <b>14J</b>   | <b>85</b>    | <20      | NT          | 5.3J       | 250J         | 30         | <20       | <400       | <2,000        | <b>2,500</b> | <100       |
|      | 7/25/2017   | <b>3,800</b> | 140          | 270          | 1,500         | <b>43J</b>   | <100         | <100     | <0.020      | <1,000     | <2,000       | 100        | <100      | <2,000     | <10,000       | <b>2,700</b> | <500       |
|      | 5/30/2018   | <b>160</b>   | <5.0         | <5.0         | 30            | <b>2.0J</b>  | <5.0         | <5.0     | NT          | <50        | <100         | 4.1J       | <5.0      | <100       | <500          | 68J          | <25        |
|      | 8/18/2005   | <1.0         | <5.0         | <5.0         | <10           | <5.0         | <5.0         | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT           | NT         |
|      | 10/2/2008   | <1.00        | <1.00        | <1.00        | <3.00         | <5.00        | <1.00        | <1.00    | <0.010      | NT         | NT           | NT         | NT        | NT         | NT            | NT           | NT         |
|      | 10/31/2011  |              |              |              |               |              |              |          |             |            |              |            |           |            |               |              |            |
|      | 12/30/2014  | <1.0         | <1.0         | <1.0         | <1.0          | <1.0         | <1.0         | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20          | <5.0       |
|      | 7/25/2017   | <1.0         | <1.0         | <1.0         | <1.0          | <1.0         | <1.0         | <1.0     | <0.020      | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20          | <5.0       |
|      | 5/30/2018   | <1.0         | <1.0         | <1.0         | <1.0          | <1.0         | <1.0         | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20          | <5.0       |
|      | 8/18/2005   | <1.0         | <5.0         | <5.0         | <10           | <5.0         | <5.0         | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT           | NT         |
|      | 10/2/2008   |              |              |              |               |              |              |          |             |            |              |            |           |            |               |              |            |
|      | 10/31/2011  | <b>110</b>   | 11.5         | <1.00        | 9.27          | <5.00        | 4.31         | <1.00    | NT          | <5.00      | 7.11J        | <5.00      | <5.00     | <100       | <1,000        | 32.0         | <5.00      |
|      | 12/30/2014  | <b>680</b>   | 910          | 72           | 360           | <20          | <20          | <20      | NT          | <200       | <400         | <20        | <20       | <400       | <2,000        | 130J         | <100       |
|      | 7/25/2017   | <b>1,500</b> | <b>1,500</b> | 73           | 1,300         | <50          | <50          | <50      | <0.020      | <500       | <1,000       | <50        | <50       | <1,000     | <5,000        | <1,000       | <250       |
|      | 5/30/2018   | <1.0         | <1.0         | <1.0         | <1.0          | <1.0         | <1.0         | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20          | <5.0       |
|      | 8/18/2005   | <b>7.8</b>   | 6.3          | 5.5          | 52            | 22           | 6.8          | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT           | NT         |
|      | 10/2/2008   | <b>9.16</b>  | 1.15         | 16.9         | 133           | <b>43.8</b>  | <1.00        | <1.00    | <0.010      | NT         | NT           | NT         | NT        | NT         | NT            | NT           | NT         |
|      | 10/31/2011  | <b>10.4</b>  | <1.00        | 3.17         | 91.5          | <b>65.4</b>  | <1.00        | <1.00    | NT          | <5.00      | <10.0        | <5.00      | <5.00     | <100       | <1,000        | 8.52J        | <5.00      |
|      | 12/30/2014  | 2.2          | <1.0         | <1.0         | 13            | 9.2          | <1.0         | <1.0     | NT          | 0.34J      | 12J          | 1.1        | <1.0      | <20        | <100          | <20          | <5.0       |
|      | 7/25/2017   | 1.7          | <1.0         | 0.45J        | 2.8           | <1.0         | 2.1          | <1.0     | <0.020      | <10        | 11J          | <1.0       | <1.0      | <20        | <100          | <20          | <5.0       |
|      | 5/30/2018   | 2.2          | <1.0         | 0.61J        | 3.5           | 0.54J        | 1.6          | <1.0     | NT          | <10        | 18J          | 0.42J      | <1.0      | <20        | <100          | <20          | <5.0       |
|      | 8/18/2005   | <1.0         | <5.0         | <5.0         | <10           | <5.0         | <5.0         | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT           | NT         |
|      | 10/2/2008   | <1.00        | <1.00        | <1.00        | <3.00         | <5.00        | <1.00        | <1.00    | <0.010      | NT         | NT           | NT         | NT        | NT         | NT            | NT           | NT         |
|      | 10/31/2011  |              |              |              |               |              |              |          |             |            |              |            |           |            |               |              |            |
|      | 12/30/2014  | <1.0         | <1.0         | <1.0         | <1.0          | <1.0         | <1.0         | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20          | <5.0       |
|      | 7/25/2017   | <1.0         | <1.0         | <1.0         | <1.0          | <1.0         | <1.0         | <1.0     | <0.020      | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20          | <5.0       |
|      | 5/29/2018   | <1.0         | <1.0         | <1.0         | <1.0          | <1.0         | <1.0         | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20          | <5.0       |

**TABLE 3  
GROUNDWATER LABORATORY DATA  
HOT SPOT #3005  
CHESNEE, SC  
SCDHEC UST PERMIT #12719**

| Well        | Date        | Benzene                   | Toluene      | Ethylbenzene | Xylenes       | Naphthalene | MTBE      | 1,2 DCA  | EDB         | TAME       | TBA          | DIPE       | ETBE      | ETBA       | Ethanol       | TAA        | TBF        |  |
|-------------|-------------|---------------------------|--------------|--------------|---------------|-------------|-----------|----------|-------------|------------|--------------|------------|-----------|------------|---------------|------------|------------|--|
|             | Units       | ug/L                      | ug/L         | ug/L         | ug/L          | ug/L        | ug/L      | ug/L     | ug/L        | ug/L       | ug/L         | ug/L       | ug/L      | ug/L       | ug/L          | ug/L       | ug/L       |  |
|             | <b>RBSL</b> | <b>5</b>                  | <b>1,000</b> | <b>700</b>   | <b>10,000</b> | <b>40</b>   | <b>25</b> | <b>5</b> | <b>0.05</b> | <b>128</b> | <b>1,400</b> | <b>150</b> | <b>47</b> | <b>n/a</b> | <b>10,000</b> | <b>240</b> | <b>n/a</b> |  |
| 12719-MW8   | 8/18/2005   | <1.0                      | <5.0         | <5.0         | <1.0          | <5.0        | <5.0      | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|             | 10/2/2008   | Well could not be located |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|             | 10/31/2011  | Not sampled               |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|             | 12/30/2014  | <1.0                      | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | <1.0        | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|             | 7/25/2017   | Could Not Find            |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
| 12719-MW8R  | 5/29/2018   | <1.0                      | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|             | 8/18/2005   | <1.0                      | <5.0         | <5.0         | <1.0          | <5.0        | <5.0      | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|             | 10/2/2008   | <1.00                     | <1.00        | <1.00        | <3.00         | <5.00       | <1.00     | <1.00    | <0.010      | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|             | 10/31/2011  | Not sampled               |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|             | 12/30/2014  | <1.0                      | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
| 12719-MW9   | 7/25/2017   | <1.0                      | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | <0.020      | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|             | 5/29/2018   | <1.0                      | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|             | 8/18/2005   | Not sampled               |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|             | 10/2/2008   | Not sampled               |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|             | 10/31/2011  | Not sampled               |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
| 12719-MW10  | 12/30/2014  | Not sampled               |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|             | 5/29/2018   | <1.0                      | <1.0         | <1.0         | <1.0          | 2.0         | <1.0      | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|             | 8/18/2005   | <1.0                      | <5.0         | <5.0         | <1.0          | <5.0        | <5.0      | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|             | 10/2/2008   | <1.00                     | <1.00        | <1.00        | <3.00         | <5.00       | <1.00     | <1.00    | <0.010      | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|             | 10/31/2011  | <1.00                     | <1.00        | <1.00        | <3.00         | 1.88J       | <1.00     | <1.00    | NT          | <5.00      | <10.0        | <5.00      | <5.00     | <100       | <1,000        | <20.0      | <5.00      |  |
| 12719-MW10R | 12/30/2014  | <1.0                      | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|             | 7/24/2017   | <1.0                      | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | <0.019      | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|             | 5/29/2018   | <1.0                      | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|             | 8/18/2005   | Not sampled               |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|             | 10/2/2008   | <1.00                     | <1.00        | <1.00        | <3.00         | <5.00       | <1.00     | <1.00    | <0.010      | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
| 12719-MW11  | 10/31/2011  | Not sampled               |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|             | 12/30/2014  | Not sampled               |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|             | 5/29/2018   | <1.0                      | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|             | 8/18/2005   | <1.0                      | <5.0         | <5.0         | <1.0          | <5.0        | <5.0      | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|             | 10/2/2008   | Well could not be located |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
| 12719-MW11R | 10/31/2011  | Not sampled               |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|             | 12/30/2014  | <1.0                      | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|             | 7/24/2017   | <1.0                      | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | <0.020      | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|             | 5/29/2018   | Obstructed                |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|             | 8/18/2005   | <1.0                      | <5.0         | <5.0         | <1.0          | <5.0        | <5.0      | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
| 12719-MW12  | 10/2/2008   | <1.00                     | <1.00        | <1.00        | <3.00         | <5.00       | <1.00     | <1.00    | <0.010      | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|             | 10/31/2011  | Not sampled               |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|             | 12/30/2014  | <1.0                      | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|             | 7/24/2017   | <1.0                      | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | <0.020      | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|             | 5/29/2018   | <1.0                      | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
| 12719-MW13  | 8/18/2005   | <1.0                      | <5.0         | <5.0         | <1.0          | <5.0        | <5.0      | NT       | NT          | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|             | 10/2/2008   | <1.00                     | <1.00        | <1.00        | <3.00         | <5.00       | <1.00     | <1.00    | <0.010      | NT         | NT           | NT         | NT        | NT         | NT            | NT         | NT         |  |
|             | 10/31/2011  | Not sampled               |              |              |               |             |           |          |             |            |              |            |           |            |               |            |            |  |
|             | 12/30/2014  | <1.0                      | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | NT          | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
|             | 7/24/2017   | <1.0                      | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | <1.0     | <0.020      | <10        | <20          | <1.0       | <1.0      | <20        | <100          | <20        | <5.0       |  |
| 5/29/2018   | <1.0        | <1.0                      | <1.0         | <1.0         | <1.0          | <1.0        | <1.0      | NT       | <10         | <20        | <1.0         | <1.0       | <20       | <100       | <20           | <5.0       |            |  |

TABLE 3  
GROUNDWATER LABORATORY DATA  
HOT SPOT #3005  
CHESNEE, SC  
SCDHEC UST PERMIT #12719

| Well           | Date       | Benzene     | Toluene | Ethylbenzene | Xylenes | Naphthalene | MTBE  | 1,2 DCA | EDB    | TAME  | TBA    | DIPE  | ETBE  | ETBA   | Ethanol | TAA   | TBF   |      |
|----------------|------------|-------------|---------|--------------|---------|-------------|-------|---------|--------|-------|--------|-------|-------|--------|---------|-------|-------|------|
|                | Units      | ug/L        | ug/L    | ug/L         | ug/L    | ug/L        | ug/L  | ug/L    | ug/L   | ug/L  | ug/L   | ug/L  | ug/L  | ug/L   | ug/L    | ug/L  | ug/L  |      |
|                | RBSL       | 5           | 1,000   | 700          | 10,000  | 40          | 25    | 5       | 0.05   | 128   | 1,400  | 150   | 47    | n/a    | 10,000  | 240   | n/a   |      |
| 12719-MW14     | 8/18/2005  | <1.0        | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT     | NT    | NT    | NT     | NT      | NT    | NT    |      |
|                | 10/2/2008  | <1.00       | <1.00   |              | <3.00   | <5.00       | 1.12  | <1.00   | <0.010 | NT    | NT     | NT    | NT    | NT     | NT      | NT    | NT    |      |
|                | 10/31/2011 | Not sampled |         |              |         |             |       |         |        |       |        |       |       |        |         |       |       |      |
|                | 12/30/2014 | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <1.0   | NT    | <10    | <20   | <1.0  | <1.0   | <20     | <100  | <20   | <5.0 |
| 12719-MW15     | 7/25/2017  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
|                | 5/29/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
| 12719-MW16     | 7/25/2017  | 1,000       | 120     | 25           | 580     | 171         | 150   | <20     | <0.020 | 121   | <400   | <20   | <20   | <400   | <2,000  | 1,000 | <100  |      |
|                | 5/29/2018  | 1,700       | 300     | 67           | 930     | 45          | 250   | <20     | NT     | 151   | 1601   | 22    | <20   | <400   | <2,000  | 1,500 | <100  |      |
| 12719-MW17     | 7/25/2017  | 1,000       | 120     | 25           | 580     | 171         | 150   | <20     | <0.020 | 121   | <400   | <20   | <20   | <400   | <2,000  | 1,000 | <100  |      |
| 12719-MW18     | 5/30/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
| 12719-MW19     | 5/29/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
| 12719-MW20     | 5/29/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | 1.2   | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
| 12719-MW21     | 5/29/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | 4.3   | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
| 12719-MW22     | 5/30/2018  | <1.0        | <1.0    | <1.0         | 6.6     | 15          | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
| 12719-MW23     | 5/30/2018  | <1.0        | <1.0    | <1.0         | 19      | 12          | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
| 12719-MW24     | 5/30/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
| 12719-MW25     | 5/30/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | 15    | <1.0    | NT     | 0.511 | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
| 12719-RW1      | 5/30/2018  | 67          | 14      | 81           | 320     | 140         | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | 121   | <5.0  |      |
| 12719-RW2      | 5/30/2018  | 21          | 0.581   | 35           | 140     | 82          | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
| 12719-RW3      | 5/30/2018  | 1,800       | <50     | 120          | 360     | 291         | 280   | <50     | NT     | <500  | <1,000 | 491   | <50   | <1,000 | <5,000  | 1,400 | <250  |      |
| 12719-RW3(DUP) | 5/30/2018  | 1,700       | <50     | 120          | 320     | <50         | 300   | <50     | NT     | <500  | <1,000 | 51    | <50   | <1,000 | <5,000  | 1,400 | <250  |      |
| 12719-MW1D     | 8/18/2005  | <1.0        | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT     | NT    | NT    | NT     | NT      | NT    | NT    |      |
|                | 10/2/2008  | <1.00       | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT    | NT     | NT    | NT    | NT     | NT      | NT    | NT    |      |
|                | 10/31/2011 | <1.00       | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | NT     | <5.00 | <10.0  | <5.00 | <5.00 | <100   | <1,000  | <20.0 | <5.00 |      |
|                | 12/30/2014 | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
|                | 7/25/2017  | 0.431       | <1.0    | <1.0         | 0.681   | 0.421       | <1.0  | <1.0    | <0.020 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
| 12719-DW2      | 5/30/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
| 12719-DW3      | 5/30/2018  | <1.0        | 0.811   | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
| 12719-SW1      | 5/30/2018  | <1.0        | <1.0    | <1.0         | <1.0    | 2.0         | 1.4   | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
| 12719-FB1      | 5/29/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
| 12719-FB2      | 5/30/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |
| 12719-TB1      | 5/30/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |      |

NOTES:

RBSL = Risk-Based Screening Level

Bold lettering indicates parameter exceeds SCDHEC RBSL's except 1,2-DCA which is based on EPA limit ug/L micrograms per liter

NT = Parameter was not tested during this event

J = Indicates an estimated value

(DUP) = Duplicate

FB = Field Blank

TB = Trip Blank

MTBE = Methyl tertiary butyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

TAME = tert-Amyl methyl ether

TBA = tert-Butyl Alcohol or t-Butanol

DIPE = Isopropyl ether or diisopropyl ether

ETBE = Ethyl tert-butyl ether

ETBA = 3,3-Dimethyl-1-butanol or ethyl tert-butanol

TAA = tert-amy alcohol

TBF = tert-butyl formate

## **J. FIGURES**

### **1. Topographic Map**

Figure 1 Topographic Map - Attached

### **2. Site Base Map**

Figure 2 Site Base Map - Attached

### **3. CoC Site Maps**

Figure 3 Soil CoC Map - Not Applicable

Figure 4A Groundwater Field Delineation Map – Attached

Figure 4B Groundwater CoC Map – Attached

Figure 4C Groundwater CoC Map (Oxygenates) – Attached

### **4. Site Potentiometric Maps**

Figure 5 Site Potentiometric Map – Attached

### **5. Geologic Cross Sections**

Figure 6 Geologic Cross Sections - Not Applicable

### **6. Predicted Migration and Attenuation of CoCs**

Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable

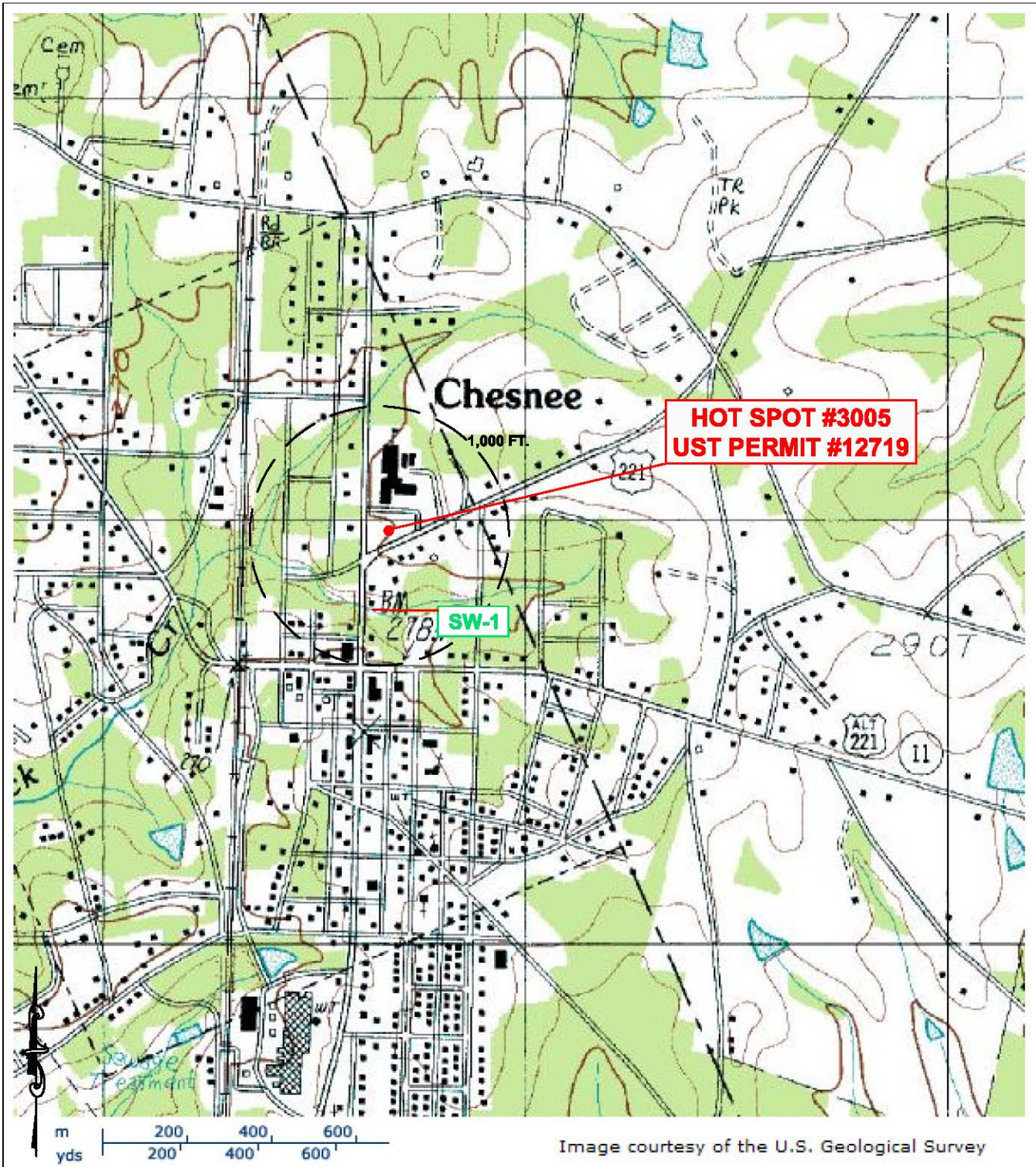


Image courtesy of the U.S. Geological Survey



## FIGURE 1 TOPOGRAPHIC MAP

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

*... providing our clients with the best services available,  
actually understanding our clients objectives,  
and making their objectives our own!*

SIZE  
B

TERRY Project No.  
2230.81

DWG NO.

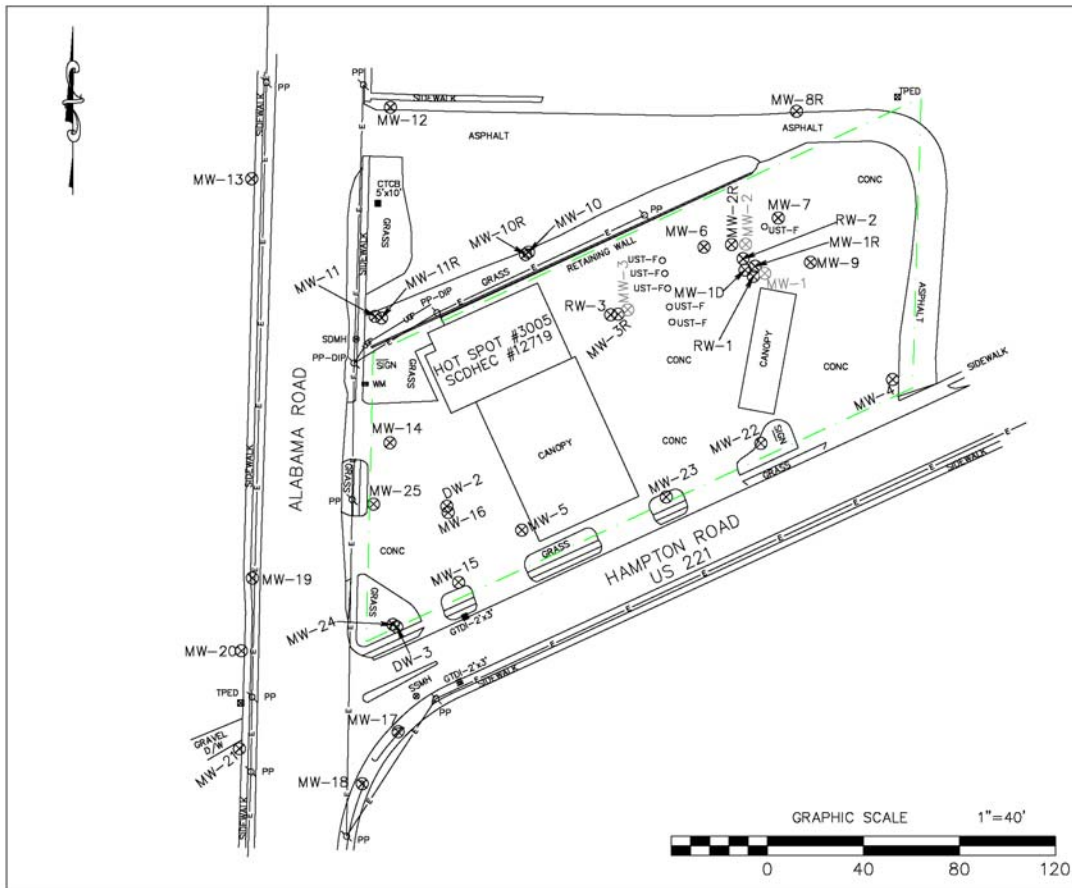
Figure 1 Topographic Map

REV

PO Box 25  
Summerville, South Carolina 29484  
(800) 325-0605 (843)-873-8200 fax: (843)-873-8765

SCALE: As Shown

DATE: July 2018

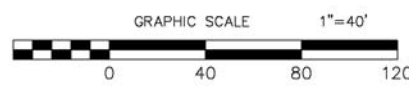


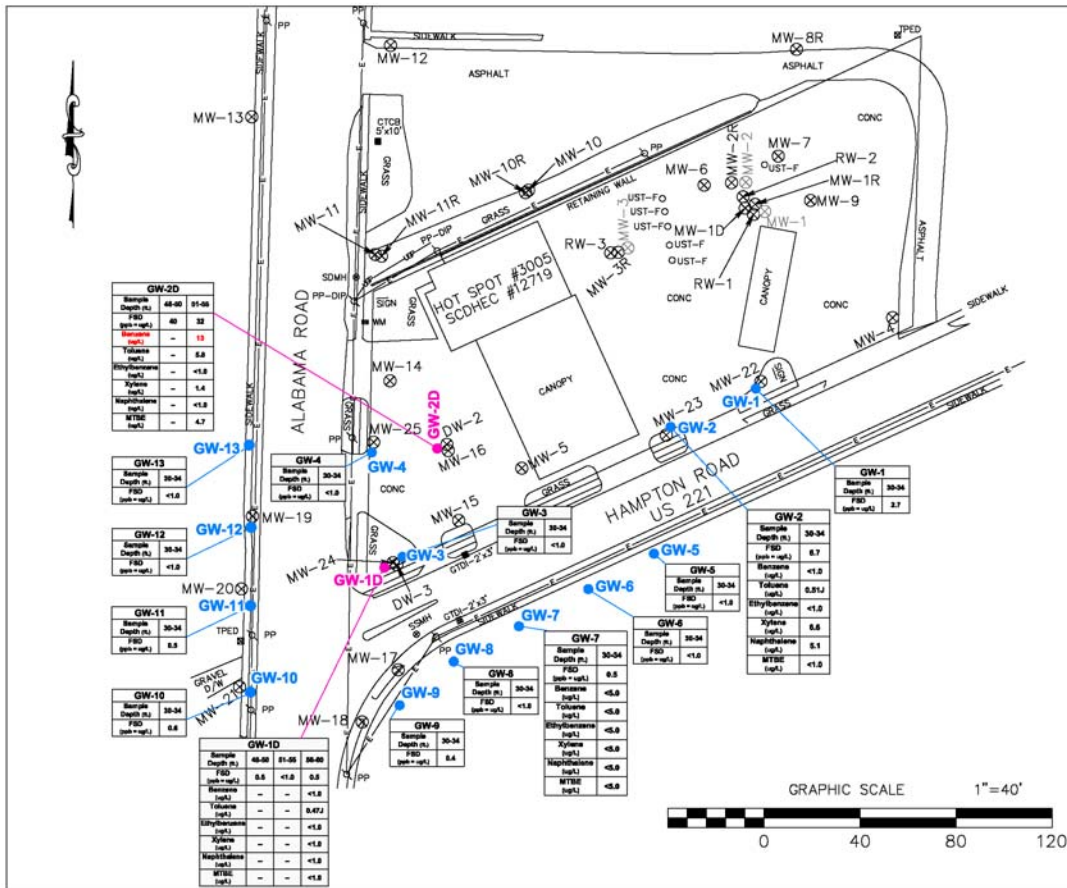
- LEGEND & ABBREVIATIONS:**
- ⊗ MW = MONITORING WELL
  - ⊗ ABANDONED MONITORING WELL
  - ⊗ TPED = TELEPHONE PEDESTAL
  - ⊗ SDMH = STORM DRAIN MAN HOLE
  - ⊗ SSMH = SANITARY SEWER MAN HOLE
  - ⊗ WM = WATER METER
  - ⊗ PP = POWER POLE
  - ⊗ LP = LIGHT POLE
  - ⊗ GM = GAS METER
  - ⊗ CV = GAS VALVE
  - ⊗ USTF = UNDERGROUND STORAGE TANK FILL
  - ⊗ GTCB = GRATE TOP CATCH BASIN
  - ⊗ SIGN = SIGN
  - ⊗ KD = KEROSENE DISPENSER
  - E — = OVERHEAD POWER LINE
  - UFP — = UNDERGROUND POWER LINE
  - — — = APPROXIMATE PROPERTY LINE
- ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (ie. 12719-MW 1)



**FIGURE 2**  
**SITE BASE MAP**  
HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

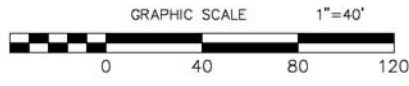
|                            |                           |
|----------------------------|---------------------------|
| TERRY PROJECT #<br>2230.81 | SCDHCC SITE ID #<br>12719 |
| SCALE<br>1" = 40'          | DATE<br>July 2018         |





**FIGURE 4A**  
**GROUNDWATER FIELD DELINEATION MAP**  
 HOT SPOT #3005  
 107 HAMPTON STREET  
 CHESNEE, SOUTH CAROLINA

|                 |                  |
|-----------------|------------------|
| TERRY PROJECT # | SCDHEC SITE ID # |
| 2230.81         | 12719            |
| SCALE 1" = 40'  | DATE July 2018   |



| Sample Depth (ft)   | 48-00 | 51-00 | 58-00 |
|---------------------|-------|-------|-------|
| FSD (ppb+ug/L)      | 0.8   | <1.0  | 0.8   |
| Benzene (ug/L)      | -     | <1.0  | -     |
| Toluene (ug/L)      | -     | <1.0  | -     |
| Ethylbenzene (ug/L) | -     | 0.472 | -     |
| Xylene (ug/L)       | -     | <1.0  | -     |
| Naphthalene (ug/L)  | -     | <1.0  | -     |
| MTBE (ug/L)         | -     | <1.0  | -     |

| Sample Depth (ft)   | 30-04 |
|---------------------|-------|
| FSD (ppb+ug/L)      | <1.0  |
| Benzene (ug/L)      | <1.0  |
| Toluene (ug/L)      | 0.811 |
| Ethylbenzene (ug/L) | <1.0  |
| Xylene (ug/L)       | 0.8   |
| Naphthalene (ug/L)  | 0.1   |
| MTBE (ug/L)         | <1.0  |

| Sample Depth (ft)   | 30-04 |
|---------------------|-------|
| FSD (ppb+ug/L)      | 0.8   |
| Benzene (ug/L)      | <0.8  |
| Toluene (ug/L)      | <0.8  |
| Ethylbenzene (ug/L) | <0.8  |
| Xylene (ug/L)       | <0.8  |
| Naphthalene (ug/L)  | <0.8  |
| MTBE (ug/L)         | 0.4   |

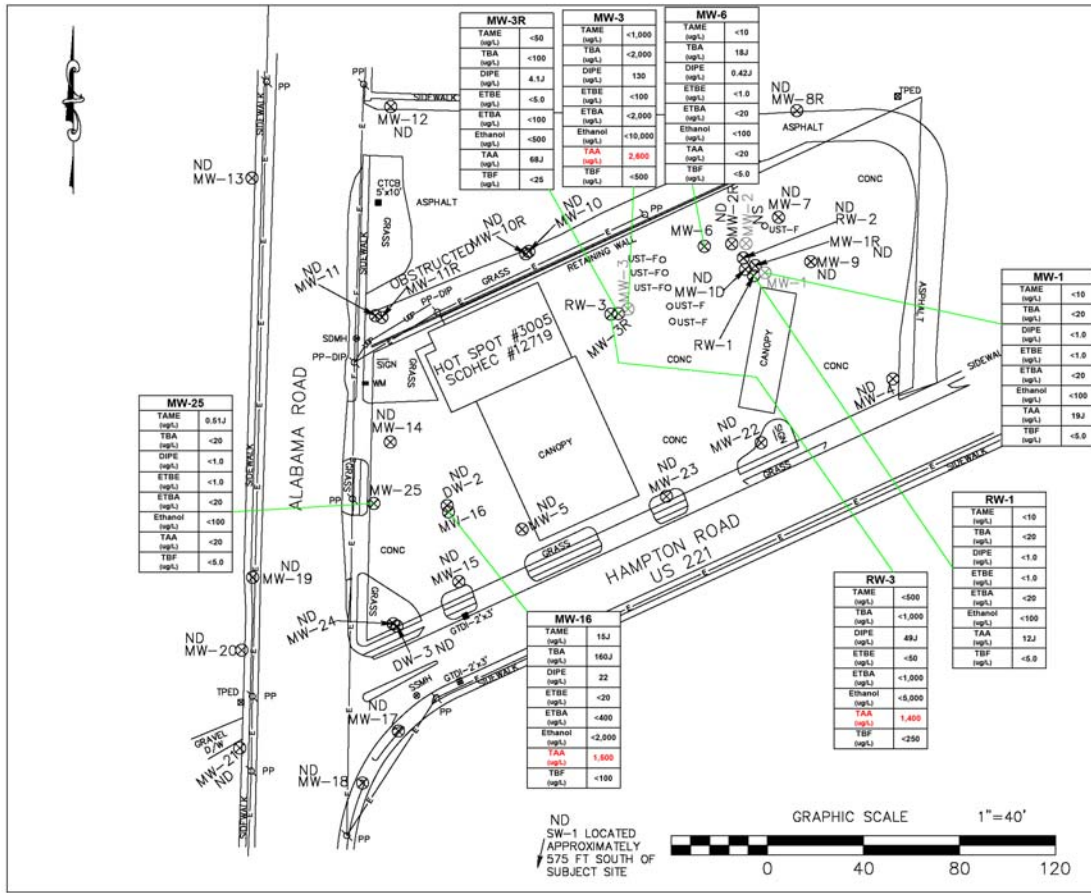
| Sample Depth (ft)   | 30-04 |
|---------------------|-------|
| FSD (ppb+ug/L)      | <1.0  |
| Benzene (ug/L)      | <1.0  |
| Toluene (ug/L)      | 0.811 |
| Ethylbenzene (ug/L) | <1.0  |
| Xylene (ug/L)       | 0.8   |
| Naphthalene (ug/L)  | 0.1   |
| MTBE (ug/L)         | <1.0  |

| Sample Depth (ft)   | 30-04 |
|---------------------|-------|
| FSD (ppb+ug/L)      | 0.7   |
| Benzene (ug/L)      | <1.0  |
| Toluene (ug/L)      | 0.811 |
| Ethylbenzene (ug/L) | <1.0  |
| Xylene (ug/L)       | 0.8   |
| Naphthalene (ug/L)  | 0.1   |
| MTBE (ug/L)         | <1.0  |

| Sample Depth (ft)   | 30-04 |
|---------------------|-------|
| FSD (ppb+ug/L)      | 3.7   |
| Benzene (ug/L)      | <1.0  |
| Toluene (ug/L)      | 0.811 |
| Ethylbenzene (ug/L) | <1.0  |
| Xylene (ug/L)       | 0.8   |
| Naphthalene (ug/L)  | 0.1   |
| MTBE (ug/L)         | <1.0  |







**LEGEND & ABBREVIATIONS:**

- ⊗ MW = MONITORING WELL
- ⊗ ABANDONED MONITORING WELL
- ⊗ TPED = TELEPHONE PEDESTAL
- ⊗ SDMH = STORM DRAIN MAN HOLE
- ⊗ SSMH = SANITARY SEWER MAN HOLE
- ⊗ WM = WATER METER
- ⊗ PP = POWER POLE
- ⊗ LP = LIGHT POLE
- ⊗ GM = GAS METER
- ⊗ GV = GAS VALVE
- ⊗ USTF = UNDERGROUND STORAGE TANK FILL
- ⊗ GTCB = GRATE TOP CATCH BASIN
- ⊗ SIGN = SIGN
- ⊗ KD = KEROSENE DISPENSER
- ⊗ O = OVERHEAD POWER LINE
- ⊗ ULP = UNDERGROUND POWER LINE

TAME = TERT-AMYL METHYL ETHER  
TBA = TERT-BUTYL ALCOHOL or T-BUTANOL  
DIPE = ISOPROPYL ETHER or DIISOPROPYL ETHER  
ETBE = ETHYL TERT-BUTYL ETHER  
ETBA = 3,3-DIMETHYL-1-BUTANOL OR ETHYL-TERT-BUTANOL  
TAA = TERT-AMYL ALCOHOL  
TBF = TERT-BUTYL FORMATE  
J = ESTIMATED VALUE  
NS = NOT SAMPLED

RED INDICATES CONTAMINANTS EXCEED RBLS  
ND = LABORATORY ANALYSIS INDICATES ALL COC AT OR BELOW DETECTION LIMITS

MONITORING WELL SAMPLES COLLECTED MAY 29 & 30, 2018.

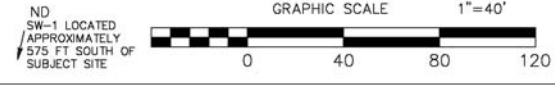
ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (ie. 12719-MW 1)

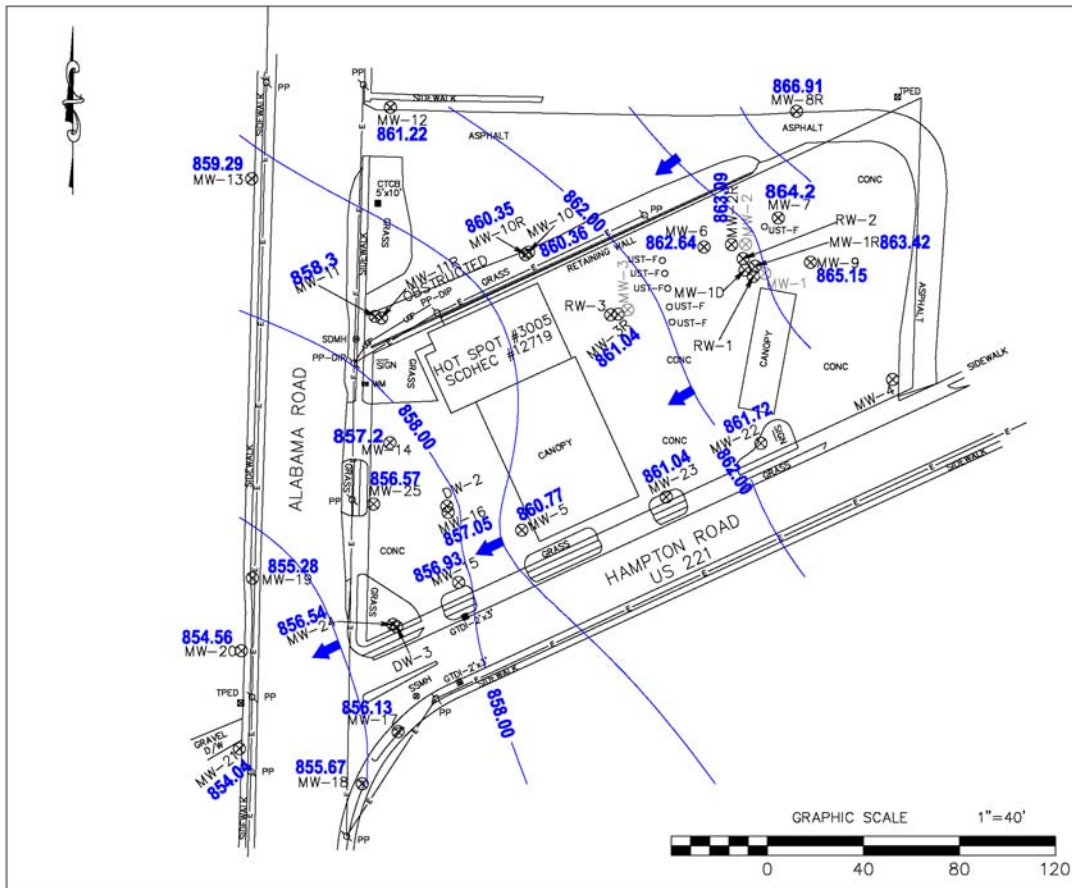
**TERRY ENVIRONMENTAL SERVICES**  
CLIENTS FIRST ALWAYS

**FIGURE 4C**  
**GROUNDWATER COC MAP (OXYGENATES)**

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

|                 |                  |
|-----------------|------------------|
| TERRY PROJECT # | SCDHEC SITE ID # |
| 2230.81         | 12719            |
| SCALE 1" = 40'  | DATE July 2018   |





- LEGEND & ABBREVIATIONS:**
- ⊗ MW = MONITORING WELL
  - ⊗ ABANDONED MONITORING WELL
  - ⊗ TPED = TELEPHONE PEDESTAL
  - ⊗ SDMH = STORM DRAIN MAN HOLE
  - ⊗ SSMH = SANITARY SEWER MAN HOLE
  - ⊗ WM = WATER METER
  - ⊗ PP = POWER POLE
  - ⊗ LP = LIGHT POLE
  - ⊗ GM = GAS METER
  - ⊗ CV = GAS VALVE
  - ⊗ USTF = UNDERGROUND STORAGE TANK FILL
  - ⊗ GTCB = GRATE TOP CATCH BASIN
  - ⊗ SIGN = SIGN
  - ⊗ KD = KEROSENE DISPENSER
  - ⊗ E = OVERHEAD POWER LINE
  - ⊗ UEP = UNDERGROUND POWER LINE
  - 863.42 GROUNDWATER ELEVATION
  - 862.00— PIEZOMETRIC CONTOUR (RELATIVE TO ASSUMED DATUM)
  - ➔ GROUNDWATER FLOW DIRECTION
- MEASUREMENTS COLLECTED ON MAY 29 & 30, 2018
- ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (i.e. 12719-MW 1)

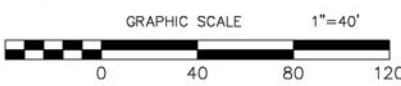


**TERRY**  
ENVIRONMENTAL SERVICES  
*CLIENTS FIRST ALWAYS*

**FIGURE 5  
SITE POTENTIOMETRIC MAP**

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

|                            |                           |
|----------------------------|---------------------------|
| TERRY PROJECT #<br>2230.81 | SCDHEC SITE ID #<br>12719 |
| SCALE 1" = 40'             | DATE July 2018            |



**K. APPENDICES**

**1. Appendix A: Site Survey**

**2. Appendix B: Sampling Logs and Laboratory Data**

**3. Appendix C: Tax Map**

Not Applicable

**4. Appendix D: Soil Boring/Field Screening Logs/SCDHEC 1903 Forms**

**5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms**

**6. Appendix F: Aquifer Evaluation Forms**

**7. Appendix G: Disposal Manifests**

**8. Appendix H: Local Zoning Regulations**

Not Applicable

**9. Appendix I: Fate and Transport Modeling Data**

Not Applicable

**10. Appendix J: Access Agreements**

**11. Appendix K: Data Verification Checklist**

## **APPENDIX A**

### **Site Survey**

SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM  
 GRID NORTH  
 NAD83  
 NAVD83

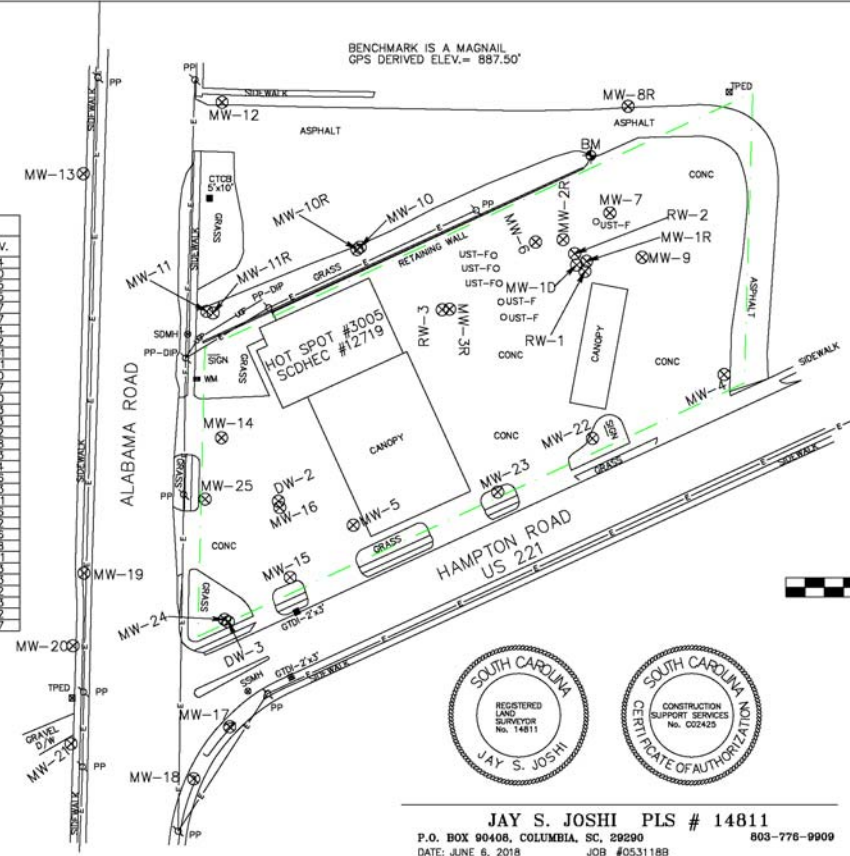
BENCHMARK IS A MAGNAIL  
 GPS DERIVED ELEV.= 887.50'

| MONITOR WELLS |            |           |
|---------------|------------|-----------|
| WELL          | TOL. ELEV. | TOC ELEV. |
| MW-1D         | 889.96     | 889.64    |
| MW-1R         | 889.91     | 889.60    |
| MW-2R         | 889.58     | 889.25    |
| MW-3R         | 889.50     | 889.17    |
| MW-4          | 886.46     | 886.27    |
| MW-5          | 889.47     | 889.37    |
| MW-6          | 889.55     | 889.14    |
| MW-7          | 889.89     | 889.52    |
| MW-8R         | 888.39     | 888.01    |
| MW-9          | 890.81     | 890.41    |
| MW-10         | 881.98     | 881.60    |
| MW-10R        | 882.00     | 881.77    |
| MW-11         | 880.54     | 880.20    |
| MW-11R        | 880.58     | 880.43    |
| MW-12         | 882.53     | 882.13    |
| MW-13         | 881.27     | 880.92    |
| MW-14         | 883.32     | 882.88    |
| MW-15         | 885.68     | 885.13    |
| MW-16         | 887.49     | 887.14    |
| MW-17         | 882.02     | 881.76    |
| MW-18         | 879.81     | 879.43    |
| MW-19         | 881.01     | 880.71    |
| MW-20         | 880.70     | 880.36    |
| MW-21         | 879.45     | 879.02    |
| MW-22         | 892.51     | 892.06    |
| MW-23         | 890.85     | 890.38    |
| MW-24         | 894.21     | 893.91    |
| MW-25         | 882.09     | 881.61    |
| DW-2          | 887.51     | 887.23    |
| DW-3          | 883.98     | 883.42    |
| RW-1          | 880.11     | 889.73    |
| RW-2          | 889.80     | 889.52    |
| RW-3          | 890.68     | 890.37    |

THIS PARCEL MAY BE SUBJECT TO EASEMENT AND/OR RIGHT-OF-WAYS NOT SHOWN. FINAL RESULTS, CONCLUSIVE OF TITLE SEARCH.

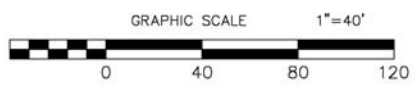
NOTE: I HEREBY CERTIFY THAT THE FIELD WORK, CALCULATIONS, AND DRAFTING WERE DONE UNDER MY DIRECT SUPERVISION.

NOTE: NOT FOR THE PURPOSE OF RECORDATION AT COUNTY COURTHOUSE OR THE CONVEYANCE OF PROPERTY.



- LEGEND & ABBREVIATIONS:**
- ⊗ MW = MONITORING WELL
  - ⊕ BM = BENCHMARK
  - ⊙ TPED = TELEPHONE PEDESTAL
  - ⊗ SDMH = STORM DRAIN MAN HOLE
  - ⊗ SSMH = SANITARY SEWER MAN HOLE
  - ⊗ WM = WATER METER
  - ⊙ PP = POWER POLE
  - ⊙ LP = LIGHT POLE
  - ⊙ GM = GAS METER
  - ⊙ CV = GAS VALVE
  - ⊙ USTF = UNDERGROUND STORAGE TANK FILL
  - ⊙ GTCB = GRATE TOP CATCH BASIN
  - ⊙ SIGN = SIGN
  - ⊙ KD = KEROSENE DISPENSER
  - E — = OVERHEAD POWER LINE
  - UFP — = UNDERGROUND POWER LINE
  - — — = APPROXIMATE PROPERTY LINE
- ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (ie. 12719-MW 1)

COMPREHENSIVE SITE SKETCH OF  
**HOT SPOT #3005**  
 107 HAMPTON STREET  
 CHESNEE SPARTANBURG COUNTY, SC  
 SCDHEC SITE ID #12719  
 PREPARED FOR  
**TERRY ENVIRONMENTAL, INC.**



**JAY S. JOSHI PLS # 14811**  
 P.O. BOX 90408, COLUMBIA, SC, 29290 803-776-9909  
 DATE: JUNE 6, 2018 JOB #0531188

**TERRY ENVIRONMENTAL SERVICES**  
 CLIENTS FIRST ALWAYS

**APPENDIX A  
 SITE SURVEY**

**HOT SPOT #3005  
 107 HAMPTON STREET  
 CHESNEE, SOUTH CAROLINA**

|                 |                  |
|-----------------|------------------|
| TERRY PROJECT # | SCDHEC SITE ID # |
| 2230.81         | 12719            |
| SCALE 1" = 40'  | DATE July 2018   |

## **APPENDIX B**

### **Sampling Logs and Laboratory Data**

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |      |  |       |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|------|--|-------|
| Terry Project ID               |               | 2230.81        |                          | Well ID                              |   | 12719-MW-1                                       |      |  |       |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |      |  |       |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |      |  |       |
| Date                           |               | 5/30/2018      |                          |                                      |   |  |      |  |       |
| Field Personnel                |               | LJ HM          |                          | Well Diameter                        |   | 2  | in   |  |       |
| General Weather                |               | Overcast       |                          | Screened Interval                    |   | 20-30  | ft   |  |       |
| Ambient Air Temperature        |               | 80             |                          | Total Well Depth (nearest 0.1')      |   | 30.3   | ft   |  |       |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 20.45  | ft   |  |       |
|                                |               |                |                          | Length of Water Column               |   | 3.85   | ft   |  |       |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | 1 Casing Volume (0.163)                 |  | 0.63 | ft   |       |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9                             | 3 Casing Volumes (0.489)                |  | 1.88 | gals   |       |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | Total Volume Purged                     |  | -    | gals   |       |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Purge Technique Utilized (hailer, pump) |  |      |  |       |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Well Yield                              |  |      | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |       |
| Last Calibration (time)        | 0900          |                | Last Verification (time) |                                      |   |  |      | 30.3   |       |
| Volume (gal)                   | 1HT           | S              |                          |                                      |   |  |      |  |       |
| Time (military)                | 1150          |                |                          |                                      |   |  |      |  |       |
| pH (su)                        | 8.30          |                |                          |                                      |   |  |      |  |       |
| Spec Conductivity (mS/cm)      | 0.252         |                |                          |                                      | NO                                      | purge  | -    | sample   | taken |
| Water Temperature (°C)         | 24.3          |                |                          |                                      |   |  |      |  |       |
| Turbidity (NTU)                | 2.8           |                |                          |                                      |   |  |      |  |       |
| Dissolved Oxygen (mg/L)        | 2.85          |                |                          |                                      |   |  |      |  |       |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |      |  |       |
| -overall condition acceptable? |               |                |                          | no bolts                             |   |  |      |  |       |
| -well cap acceptable?          |               |                |                          | sheen on water                       |   |  |      |  |       |
| -manhole and cover acceptable? |               |                |                          |                                      |   |  |      |  |       |
| -well pad acceptable?          |               |                |                          |                                      |   |  |      |  |       |
| -area safe?                    |               |                |                          |                                      |   |  |      |  |       |
| -other comments                |               |                |                          |                                      |   |  |      |  |       |

**Groundwater Sampling Log**




**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |  |  |      |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|--|--|------|------|
| Terry Project ID               |               | 2230.81        |                          | Well ID                              |  | 12719 - MW-1R                                    |      |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |      |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |  |  |      |      |
| Date                           |               | 5/30/2018      |                          |                                      |  |  |      |      |
| Field Personnel                |               | LJ HM          |                          | Well Diameter                        |  | 2  | in   |      |
| General Weather                |               | Overcast       |                          | Screened Interval                    |  | —  | ft   |      |
| Ambient Air Temperature        |               | 50             |                          | Total Well Depth (nearest 0.1')      |  | 36.1   | ft   |      |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |  | 26.18  | ft   |      |
|                                |               |                |                          | Length of Water Column               |  | 9.92   | ft   |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | 1 Casing Volume (0.163)  |  | 1.02 | ft   |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9                             | 3 Casing Volumes (0.489)   |  | 4.85 | gals |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | Total Volume Purged  |  | —    | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Purge Technique Utilized (bailer, pump)  |  |      |      |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |      |      |
| Last Calibration (time)        | 0900          |                | Last Verification (time) |                                      | 36.1   |  |      |      |
| Volume (gal)                   | INT           | /              |                          |                                      |  |  |      |      |
| Time (military)                | 1155          |                |                          |                                      |  |  |      |      |
| pH (su)                        | 6.81          |                |                          |                                      |  |  |      |      |
| Spec Conductivity (mS/cm)      | 0.249         |                |                          |                                      |  |  |      |      |
| Water Temperature (°C)         | 24.5          |                |                          |                                      |  |  |      |      |
| Turbidity (NTU)                | 6.1           |                |                          |                                      |  |  |      |      |
| Dissolved Oxygen (mg/L)        | 7.32          |                |                          |                                      |  |  |      |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |  |  |      |      |
| -overall condition acceptable? |               |                |                          | no bolts                             |  |  |      |      |
| -well cap acceptable?          |               |                |                          | slight steep on water                |  |  |      |      |
| -manhole and cover acceptable? |               |                |                          |                                      |  |  |      |      |
| -well pad acceptable?          |               |                |                          |                                      |  |  |      |      |
| -area safe?                    |               |                |                          |                                      |  |  |      |      |
| -other comments                |               |                |                          |                                      |  |  |      |      |



**Groundwater Sampling Log**

|   |               |                |                          |  |   |  |                                 |
|---|---------------|----------------|--------------------------|--|---|--|---------------------------------|
|  <b>TERRY Environmental Services</b><br><small>CLIENTS FIRST ALWAYS</small> |               |                |                          | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |   |  |                                 |
| <b>Site Specific Information</b>  |               |                |                          | <b>Monitoring Well Information</b>                     |   |  |                                 |
| Terry Project ID  |               | 2230.81        |                          | Well ID  |   | 12719 - MW - 2                                   |                                 |
| SCDHEC Permit No.   |               | 12719          |                          | Testing Parameters                                     |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                                 |
| Project Name  |               | Hot Spot #3005 |                          |  |   |  |                                 |
| Date  |               | 5/30/2018      |                          |  |   |  |                                 |
| Field Personnel   |               | HM CS          |                          | Well Diameter  |   | 2  | in                              |
| General Weather   |               | Overcast       |                          | Screened Interval                                      |   | 28-34  | ft                              |
| Ambient Air Temperature   |               | 80             |                          | Total Well Depth (nearest 0.1')                        |   | 31.0   | ft                              |
| <b>Quality Assurance</b>  |               |                |                          | Depth to Groundwater (nearest 0.01')                   |   | 10.50  | ft                              |
| Meter   | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2  | Length of Water Column                  | 20.5   | ft                              |
| Serial Number   | VPTPGA3X      |                | Serial Number            | V3KNWUE9   | 1 Casing Volume (0.163)                 | 3.34   | ft                              |
| Calibration Constant  | 4.00 su       |                | Calibration Constant     | 4.00 su  | 3 Casing Volumes (0.489)                | 10.02  | gals                            |
| Calibration Constant  | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm   | Total Volume Purged                     |  | gals                            |
| Calibration Constant  | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU  | Purge Technique Utilized (bailer, pump) |  |                                 |
| Last Calibration (time)   |               |                | Last Verification (time) |  | Well Yield                              | Low <input type="checkbox"/>                     | Medium <input type="checkbox"/> |
|   |               |                |                          |  |   | High <input type="checkbox"/>                    | 31.0                            |
| Volume (gal)  | INT           |                |                          |  |   |  |                                 |
| Time (military)   |               |                |                          |  |   |  |                                 |
| pH (su)   |               |                |                          |  |   |  |                                 |
| Spec Conductivity (mS/cm)   |               |                | NS - well                | damaged  |   |  |                                 |
| Water Temperature (°C)  |               |                |                          |  |   |  |                                 |
| Turbidity (NTU)   |               |                |                          |  |   |  |                                 |
| Dissolved Oxygen (mg/L)   |               |                |                          |  |   |  |                                 |
| <b>Well Condition Information</b>   |               |                |                          | <b>Additional Comments</b>                             |   |  |                                 |
| -overall condition acceptable?  |               |                |                          | NS   |   |  |                                 |
| -well cap acceptable?   |               |                |                          |  |   |  |                                 |
| -manhole and cover acceptable?  |               |                |                          |  |   |  |                                 |
| -well pad acceptable?   |               |                |                          |  |   |  |                                 |
| -area safe?   |               |                |                          |  |   |  |                                 |
| -other comments   |               |                |                          | well MW-2 abandoned                                    |   |  |                                 |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                          |               | Monitoring Well Information   |  |  |    |
|--------------------------------|---------------|--------------------------|---------------|---|--|--|----|
| Terry Project ID               |               | 2230.81                  |               | Well ID   |  | 12719 - MW-2A                                    |    |
| SCDHEC Permit No.              |               | 12719                    |               | Testing Parameters  |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |    |
| Project Name                   |               | Hot Spot #3005           |               |   |  |  |    |
| Date                           |               | 5/30/2018                |               | Well Diameter   |  | 2  | in |
| Field Personnel                |               | HM LJ                    |               | Screened Interval   |  | 20-30  | ft |
| General Weather                |               | Overcast                 |               | Total Well Depth (nearest 0.1')   |  | 30.2   | ft |
| Ambient Air Temperature        |               | 80                       |               | Depth to Groundwater (nearest 0.01')  |  | 26.16  | ft |
| Quality Assurance              |               |                          |               | Length of Water Column 4.04 ft<br>1 Casing Volume (0.163) 0.66 ft<br>3 Casing Volumes (0.489) 1.98 gals<br>Total Volume Purged 2.25 gals<br>Purge Technique Utilized (bailer, pump) <input checked="" type="checkbox"/> |  |  |    |
| Meter                          | Horiba U-52-2 | Meter                    | Horiba U-52-2 |   |  |  |    |
| Serial Number                  | VPTPGA3X      | Serial Number            | V3KNWUE9      | TAG BOTTOM OF WELL TO VERIFY WELL DEPTH. WRITE BELOW TO NEAREST 0.1' <span style="float: right;">30.2</span>  |  |  |    |
| Calibration Constant           | 4.00 su       | Calibration Constant     | 4.00 su       |   |  |  |    |
| Calibration Constant           | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    |   |  |  |    |
| Calibration Constant           | 0.0 NTU       | Calibration Constant     | 0.0 NTU       |   |  |  |    |
| Last Calibration (time)        | 0900          | Last Verification (time) | 1700          |   |  |  |    |
| Well Yield                     |               |                          |               | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/>  |  |  |    |
| Volume (gal)                   | INT           | 0.75                     | 1.5           | 2.25  |  |  |    |
| Time (military)                | 1745          | 1747                     | 1749          | 1751  |  |  |    |
| pH (su)                        | 5.85          | 5.33                     | 5.34          | 5.33  |  |  |    |
| Spec Conductivity (mS/cm)      | 0.205         | 0.303                    | 0.304         | 0.304   |  |  |    |
| Water Temperature (°C)         | 23.4          | 25.2                     | 25.2          | 25.2  |  |  |    |
| Turbidity (NTU)                | 0.9           | 26.9                     | 27.3          | 27.5  |  |  |    |
| Dissolved Oxygen (mg/L)        | 4.21          | 2.74                     | 2.73          | 2.73  |  |  |    |
| Well Condition Information     |               |                          |               | Additional Comments   |  |  |    |
| -overall condition acceptable? |               |                          |               | Yes   |  |  |    |
| -well cap acceptable?          |               |                          |               | MW-2A D.P. @ 1753   |  |  |    |
| -manhole and cover acceptable? |               |                          |               |   |  |  |    |
| -well pad acceptable?          |               |                          |               | Well tag punched w/ wrong information (35' well, screened 25'-35'), wrote corrections on well tag w/ sharpie (see above). Tag needs to be replaced.   |  |  |    |
| -area safe?                    |               |                          |               |   |  |  |    |
| -other comments                |               |                          |               |   |  |  |    |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |  |  |      |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|--|--|------|------|
| Terry Project ID               |               | 2230.81        |                          | Well ID                              |  | 12719 - Mw-3                                     |      |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |      |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |  |  |      |      |
| Date                           |               | 5/30/2018      |                          |                                      |  |  |      |      |
| Field Personnel                |               | HM LS          |                          | Well Diameter                        |  | 2  | in   |      |
| General Weather                |               | Overcast       |                          | Screened Interval                    |  | <del>20</del>                                    | ft   |      |
| Ambient Air Temperature        |               | 80             |                          | Total Well Depth (nearest 0.1')      |  | 32.3   | ft   |      |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |  | 29.00  | ft   |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column   |  | 3.30 | ft   |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)  |  | 0.54 | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)   |  | 1.61 | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged  |  | —    | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)  |  |      | 32.3 |
| Last Calibration (time)        | 0900          |                | Last Verification (time) | 1300                                 | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |      |      |
| Volume (gal)                   | INT           | S              |                          |                                      |  |  |      |      |
| Time (military)                | 1635          |                |                          |                                      |  |  |      |      |
| pH (su)                        | 6.47          |                |                          |                                      |  |  |      |      |
| Spec Conductivity (mS/cm)      | 0.358         |                |                          |                                      | No purge - sample taken  |  |      |      |
| Water Temperature (°C)         | 24.0          |                |                          |                                      |  |  |      |      |
| Turbidity (NTU)                | 0.6           |                |                          |                                      |  |  |      |      |
| Dissolved Oxygen (mg/L)        | 4.04          |                |                          |                                      |  |  |      |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |  |  |      |      |
| -overall condition acceptable? |               |                |                          | no bolts                             |  |  |      |      |
| -well cap acceptable?          |               |                |                          |                                      |  |  |      |      |
| -manhole and cover acceptable? |               |                |                          |                                      |  |  |      |      |
| -well pad acceptable?          |               |                |                          |                                      |  |  |      |      |
| -area safe?                    |               |                |                          |                                      |  |  |      |      |
| -other comments                |               |                |                          |                                      |  |  |      |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |  |  |      |  |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|--|--|------|--|
| Terry Project ID               |               | 2230.81        |                          | Well ID                              |  | 12719 - MW - 3R                                  |      |  |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |      |  |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |  |  |      |  |
| Date                           |               | 5/30/2018      |                          |                                      |  |  |      |  |
| Field Personnel                |               | HM LS          |                          | Well Diameter                        |  | 2  | in   |  |
| General Weather                |               | Overcast       |                          | Screened Interval                    |  | 24-36  | ft   |  |
| Ambient Air Temperature        |               | 80             |                          | Total Well Depth (nearest 0.1')      |  | 36.3   | ft   |  |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |  | 29.21  | ft   |  |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                   |  | 7.09 | ft   |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                  |  | 1.16 | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                 |  | 3.47 | gals   |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                      |  |      | gals   |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailler, pump) |  |      |  |
| Last Calibration (time)        | 0900          |                | Last Verification (time) | 1300                                 | Well Yield                               |  |      | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |
| Volume (gal)                   | INT           | 5              |                          |                                      |  |  |      | TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'                       |
| Time (military)                | 1640          |                |                          |                                      |  |  |      |  |
| pH (su)                        | 6.29          |                |                          |                                      |  |  |      |  |
| Spec Conductivity (mS/cm)      | 0.079         |                |                          |                                      |  |  |      |  |
| Water Temperature (°C)         | 22.9          |                |                          |                                      |  |  |      |  |
| Turbidity (NTU)                | 1.2           |                |                          |                                      |  |  |      |  |
| Dissolved Oxygen (mg/L)        | 3.49          |                |                          |                                      |  |  |      |  |
| Well Condition Information     |               |                |                          | Additional Comments                  |  |  |      |  |
| -overall condition acceptable? |               |                |                          | no bats                              |  |  |      |  |
| -well cap acceptable?          |               |                |                          |                                      |  |  |      |  |
| -manhole and cover acceptable? |               |                |                          |                                      |  |  |      |  |
| -well pad acceptable?          |               |                |                          |                                      |  |  |      |  |
| -area safe?                    |               |                |                          |                                      |  |  |      |  |
| -other comments                |               |                |                          |                                      |  |  |      |  |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                          |               | Monitoring Well Information             |  |  |                                 |
|--------------------------------|---------------|--------------------------|---------------|---|--|--|---------------------------------|
| Terry Project ID               |               | 2230.81                  |               | Well ID                                 |  | 12719 - Mw_4                                     |                                 |
| SCDHEC Permit No.              |               | 12719                    |               | Testing Parameters                      |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                                 |
| Project Name                   |               | Hot Spot #3005           |               |   |  |  |                                 |
| Date                           |               | 5/30/2018                |               |   |  |  |                                 |
| Field Personnel                |               | HM LJ                    |               | Well Diameter                           |  | 2  | in                              |
| General Weather                |               | Overcast                 |               | Screened Interval                       |  | 36-46  | ft                              |
| Ambient Air Temperature        |               | 80                       |               | Total Well Depth (nearest 0.1')         |  | 45.6   | ft                              |
| Quality Assurance              |               |                          |               | Depth to Groundwater (nearest 0.01')    |  | 25.45  | ft                              |
| Meter                          | Horiba U-52-2 | Meter                    | Horiba U-52-2 | Length of Water Column                  |  | 20.15  | ft                              |
| Serial Number                  | VPTPGA3X      | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)                 |  | 3.28   | ft                              |
| Calibration Constant           | 4.00 su       | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)                |  | 9.85   | gals                            |
| Calibration Constant           | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged                     |  | 10.5   | gals                            |
| Calibration Constant           | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailer, pump) |  |  |                                 |
| Last Calibration (time)        | 0900          | Last Verification (time) | 1300          | Well Yield                              |  | Low <input type="checkbox"/>                     | Medium <input type="checkbox"/> |
|                                |               |                          |               |   |  | High <input type="checkbox"/>                    | 45.6                            |
| Volume (gal)                   | INT           | 3.5                      | 7             | 10.5                                    |  |  |                                 |
| Time (military)                | 1612          | 1616                     | 1620          | 1624                                    |  |  |                                 |
| pH (su)                        | 6.65          | 7.24                     | 7.28          | 7.26                                    |  |  |                                 |
| Spec Conductivity (mS/cm)      | 0.231         | 0.238                    | 0.239         | 0.239                                   |  |  |                                 |
| Water Temperature (°C)         | 24.9          | 23.7                     | 23.7          | 23.7                                    |  |  |                                 |
| Turbidity (NTU)                | 27.5          | 11.9                     | 12.5          | 12.7                                    |  |  |                                 |
| Dissolved Oxygen (mg/L)        | 3.94          | 2.44                     | 2.46          | 2.45                                    |  |  |                                 |
| Well Condition Information     |               |                          |               | Additional Comments                     |  |  |                                 |
| -overall condition acceptable? |               |                          |               | Yes                                     |  |  |                                 |
| -well cap acceptable?          |               |                          |               |   |  |  |                                 |
| -manhole and cover acceptable? |               |                          |               |   |  |  |                                 |
| -well pad acceptable?          |               |                          |               |   |  |  |                                 |
| -area safe?                    |               |                          |               |   |  |  |                                 |
| -other comments                |               |                          |               |   |  |  |                                 |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |  |  |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|--|--|------|
| Terry Project ID               |               | 2230.81        |                          | Well ID                              |  | 12719 - MW-5                                     |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |  |  |      |
| Date                           |               | 5/30/2018      |                          | Well Diameter                        |  | 2  | in   |
| Field Personnel                |               | HM CJ          |                          | Screened Interval                    |  | 22-32  | ft   |
| General Weather                |               | Overcast       |                          | Total Well Depth (nearest 0.1')      |  | 35.5   | ft   |
| Ambient Air Temperature        |               | 80             |                          | Depth to Groundwater (nearest 0.01') |  | 28.20  | ft   |
| Quality Assurance              |               |                |                          | Length of Water Column               |  | 7.30   | ft   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | 1 Casing Volume (0.163)  | 1.19   | ft   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 3 Casing Volumes (0.489)   | 3.57   | gals |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | Total Volume Purged  | ✓  | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Purge Technique Utilized (bailer, pump)  |  |      |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |      |
| Last Calibration (time)        | 0900          |                | Last Verification (time) | 1300                                 | 35.5   |  |      |
| Volume (gal)                   | INT           | 5              |                          |                                      |  |  |      |
| Time (military)                | 1410          |                |                          |                                      |  |  |      |
| pH (su)                        | 6.93          |                |                          |                                      |  |  |      |
| Spec Conductivity (mS/cm)      | 0.108         |                |                          | No purge                             | - sample taken   |  |      |
| Water Temperature (°C)         | 25.2          |                |                          |                                      |  |  |      |
| Turbidity (NTU)                | 175           |                |                          |                                      |  |  |      |
| Dissolved Oxygen (mg/L)        | 4.37          |                |                          |                                      |  |  |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |  |  |      |
| -overall condition acceptable? |               |                |                          |                                      |  |  |      |
| -well cap acceptable?          |               |                |                          |                                      |  |  |      |
| -manhole and cover acceptable? |               |                |                          |                                      |  |  |      |
| -well pad acceptable?          |               |                |                          |                                      |  |  |      |
| -area safe?                    |               |                |                          |                                      |  |  |      |
| -other comments                |               |                |                          |                                      |  |  |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information         |               |                |                          | Monitoring Well Information          |  |  |    |
|-----------------------------------|---------------|----------------|--------------------------|--------------------------------------|--|--|----|
| Terry Project ID                  |               | 2230.81        |                          | Well ID                              |  | 12719 - MW-6                                     |    |
| SCDHEC Permit No.                 |               | 12719          |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |    |
| Project Name                      |               | Hot Spot #3005 |                          |                                      |  |  |    |
| Date                              |               | 5/30/2018      |                          |                                      |  |  |    |
| Field Personnel                   |               | HM LJ          |                          | Well Diameter                        |  | 2  | in |
| General Weather                   |               | Overcast       |                          | Screened Interval                    |  | 26-36  | ft |
| Ambient Air Temperature           |               | 80             |                          | Total Well Depth (nearest 0.1')      |  | 36.2   | ft |
| <b>Quality Assurance</b>          |               |                |                          | Depth to Groundwater (nearest 0.01') |  | 26.50  | ft |
| Meter                             | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column   |  |    |
| Serial Number                     | VTPGA3X       |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)  |  |    |
| Calibration Constant              | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)   |  |    |
| Calibration Constant              | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged  |  |    |
| Calibration Constant              | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)  |  |    |
| Last Calibration (time)           | 0900          |                | Last Verification (time) | 1700                                 | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |    |
| Volume (gal)                      | INT           | 5              |                          |                                      |  |  |    |
| Time (military)                   | 1810          |                |                          |                                      |  |  |    |
| pH (su)                           | 5.24          |                |                          |                                      |  |  |    |
| Spec Conductivity (mS/cm)         | 0.223         |                |                          |                                      |  |  |    |
| Water Temperature (°C)            | 23.0          |                |                          |                                      | NO purge - sample taken  |  |    |
| Turbidity (NTU)                   | 27.5          |                |                          |                                      |  |  |    |
| Dissolved Oxygen (mg/L)           | 2.13          |                |                          |                                      |  |  |    |
| <b>Well Condition Information</b> |               |                |                          | <b>Additional Comments</b>           |  |  |    |
| -overall condition acceptable?    |               |                |                          | yes                                  |  |  |    |
| -well cap acceptable?             |               |                |                          |                                      |  |  |    |
| -manhole and cover acceptable?    |               |                |                          |                                      |  |  |    |
| -well pad acceptable?             |               |                |                          |                                      |  |  |    |
| -area safe?                       |               |                |                          |                                      |  |  |    |
| -other comments                   |               |                |                          |                                      |  |  |    |

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH. WRITE BELOW TO NEAREST 0.1'

36.2

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                          |               | Monitoring Well Information  |  |  |    |
|--------------------------------|---------------|--------------------------|---------------|--|--|--|----|
| Terry Project ID               |               | 2230.81                  |               | Well ID  |  | 12719 - MW-#7                                    |    |
| SCDHEC Permit No.              |               | 12719                    |               | Testing Parameters   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |    |
| Project Name                   |               | Hot Spot #3005           |               |  |  |  |    |
| Date                           |               | 05/29/2018               |               | Well Diameter  |  | 2  | in |
| Field Personnel                |               | JM LS                    |               | Screened Interval  |  | 26-36  | ft |
| General Weather                |               | Overcast                 |               | Total Well Depth (nearest 0.1')  |  | 36.2   | ft |
| Ambient Air Temperature        |               | 75                       |               | Depth to Groundwater (nearest 0.01')   |  | 25.32  | ft |
| Quality Assurance              |               |                          |               | Length of Water Column 10.88 ft<br>1 Casing Volume (0.163) 1.77 ft<br>3 Casing Volumes (0.489) 5.32 gals<br>Total Volume Purged 6.0 gals<br>Purge Technique Utilized (Gules) pump<br>Well Yield Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |  |    |
| Meter                          | Horiba U-52-2 | Meter                    | Horiba U-52-2 |  |  |  |    |
| Serial Number                  | VTPGA3X       | Serial Number            | V3KNWUE9      |  |  |  |    |
| Calibration Constant           | 4.00 su       | Calibration Constant     | 4.00 su       |  |  |  |    |
| Calibration Constant           | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    |  |  |  |    |
| Calibration Constant           | 0.0 NTU       | Calibration Constant     | 0.0 NTU       |  |  |  |    |
| Last Calibration (time)        | 1315          | Last Verification (time) | 1715          |  |  |  |    |
| Volume (gal)                   | 1NT           | 2.0                      | 4.0           | 6.0  | TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'<br><br>36.2 |  |    |
| Time (military)                | 1845          | 1849                     | 1853          | 1857   |  |  |    |
| pH (su)                        | 5.00          | 4.93                     | 4.92          | 4.92   |  |  |    |
| Spec Conductivity (mS/cm)      | 0.050         | 0.050                    | 0.050         | 0.050  |  |  |    |
| Water Temperature (°C)         | 21.0          | 21.6                     | 21.4          | 21.6   |  |  |    |
| Turbidity (NTU)                | 6.0           | 44.9                     | 45.0          | 44.4   |  |  |    |
| Dissolved Oxygen (mg/L)        | 2.65          | 2.91                     | 2.90          | 2.90   |  |  |    |
| Well Condition Information     |               |                          |               | Additional Comments  |  |  |    |
| -overall condition acceptable? |               |                          |               | vault full of water  |  |  |    |
| -well cap acceptable?          |               |                          |               |  |  |  |    |
| -manhole and cover acceptable? |               |                          |               |  |  |  |    |
| -well pad acceptable?          |               |                          |               |  |  |  |    |
| -area safe?                    |               |                          |               |  |  |  |    |
| -other comments                |               |                          |               |  |  |  |    |



**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information         |               |                 |                          | Monitoring Well Information  |                          |  |  |
|-----------------------------------|---------------|-----------------|--------------------------|--|--------------------------|--|--|
| Terry Project ID                  |               | 2230.81         |                          | Well ID  |                          | 12719 - <u>MW-8</u>                              |  |
| SCDHEC Permit No.                 |               | 12719           |                          | Testing Parameters   |                          | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |  |
| Project Name                      |               | Hot Spot #3005  |                          |  |                          |  |  |
| Date                              |               | 5/30/2018       |                          |  |                          |  |  |
| Field Personnel                   |               | <u>LJHM</u>     |                          | Well Diameter  |                          | in   |  |
| General Weather                   |               | <u>overcast</u> |                          | Screened Interval  |                          | ft   |  |
| Ambient Air Temperature           |               | <u>75</u>       |                          | Total Well Depth (nearest 0.1')  |                          | ft   |  |
| <b>Quality Assurance</b>          |               |                 |                          | Depth to Groundwater (nearest 0.01')   |                          |  |  |
| Meter                             | Horiba U-52-2 | or              | Meter                    | Horiba U-52-2  | Length of Water Column   |  |  |
| Serial Number                     | VPTPGA3X      |                 | Serial Number            | V3KNWUE9   | 1 Casing Volume (0.163)  |  |  |
| Calibration Constant              | 4.00 su       |                 | Calibration Constant     | 4.00 su  | 3 Casing Volumes (0.489) |  |  |
| Calibration Constant              | 4.49 mS/cm    |                 | Calibration Constant     | 4.49 mS/cm   | Total Volume Purged      |  |  |
| Calibration Constant              | 0.0 NTU       |                 | Calibration Constant     | 0.0 NTU  | gals                     |  |  |
| Last Calibration (time)           |               |                 | Last Verification (time) |  | gals                     |  |  |
|                                   |               |                 |                          | Purge Technique Utilized (bailer, pump)  |                          |  |  |
|                                   |               |                 |                          | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |                          |  |  |
| Volume (gal)                      |               |                 |                          |  |                          |  |  |
| Time (military)                   |               |                 |                          |  |                          |  |  |
| pH (su)                           |               |                 |                          |  |                          |  |  |
| Spec Conductivity (mS/cm)         |               |                 |                          |  |                          |  |  |
| Water Temperature (°C)            |               |                 |                          |  |                          |  |  |
| Turbidity (NTU)                   |               |                 |                          |  |                          |  |  |
| Dissolved Oxygen (mg/L)           |               |                 |                          |  |                          |  |  |
| <b>Well Condition Information</b> |               |                 |                          | <b>Additional Comments</b>   |                          |  |  |
| -overall condition acceptable?    |               |                 |                          | <u>well assumed destroyed - replaced by MW-8R</u>  |                          |  |  |
| -well cap acceptable?             |               |                 |                          |  |                          |  |  |
| -manhole and cover acceptable?    |               |                 |                          |  |                          |  |  |
| -well pad acceptable?             |               |                 |                          |  |                          |  |  |
| -area safe?                       |               |                 |                          |  |                          |  |  |
| -other comments                   |               |                 |                          |  |                          |  |  |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information                 |               |                 |                          |               | Monitoring Well Information                      |  |  |                                 |   |
|---|---------------|-----------------|--------------------------|---------------|--|--|--|---------------------------------|---|
| Terry Project ID                          |               | 2230.81         |                          |               | Well ID  |  | 12719 - <u>MW-8R</u>                             |                                 |   |
| SCDHEC Permit No.                         |               | 12719           |                          |               | Testing Parameters                               |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                                 |   |
| Project Name                              |               | Hot Spot #3005  |                          |               |  |  |  |                                 |   |
| Date                                      |               | 5/29/2018       |                          |               |  |  |  |                                 |   |
| Field Personnel                           |               | <u>HM LJ</u>    |                          |               | Well Diameter                                    |  | <u>2</u>   | in                              | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| General Weather                           |               | <u>Overcast</u> |                          |               | Screened Interval                                |  | <u>20-30</u>                                     | ft                              |   |
| Ambient Air Temperature                   |               | <u>75°</u>      |                          |               | Total Well Depth (nearest 0.1')                  |  | <u>30.0</u>                                      | ft                              |   |
| Quality Assurance                         |               |                 |                          |               | Depth to Groundwater (nearest 0.01')             |  | <u>21.0</u>                                      | ft                              |   |
| Meter                                     | Horiba U-52-2 | or              | Meter                    | Horiba U-52-2 | Length of Water Column                           |  | <u>8.9</u>                                       | ft                              |   |
| Serial Number                             | VTPGA3X       |                 | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)                          |  | <u>1.45</u>                                      | ft                              |   |
| Calibration Constant                      | 4.00 su       |                 | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)                         |  | <u>4.35</u>                                      | gals                            |   |
| Calibration Constant                      | 4.49 mS/cm    |                 | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged                              |  | <u>4.5</u>                                       | gals                            |   |
| Calibration Constant                      | 0.0 NTU       |                 | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized ( <u>bailed</u> , pump) |  |  |                                 |   |
| Last Calibration (time)                   | <u>1315</u>   |                 | Last Verification (time) | <u>1715</u>   | Well Yield                                       |  | Low <input type="checkbox"/>                     | Medium <input type="checkbox"/> | High <input type="checkbox"/>   |
| Volume (gal)                              | <u>1NT</u>    | <u>1.5</u>      | <u>3.0</u>               | <u>4.5</u>    |  |  |  |                                 | <u>30.0</u>   |
| Time (military)                           | <u>1810</u>   | <u>1813</u>     | <u>1816</u>              | <u>1820</u>   |  |  |  |                                 |   |
| pH (su)                                   | <u>4.50</u>   | <u>4.16</u>     | <u>4.18</u>              | <u>4.19</u>   |  |  |  |                                 |   |
| Spec Conductivity (mS/cm)                 | <u>0.031</u>  | <u>0.034</u>    | <u>0.035</u>             | <u>0.035</u>  |  |  |  |                                 |   |
| Water Temperature (°C)                    | <u>20.8</u>   | <u>20.7</u>     | <u>20.7</u>              | <u>20.7</u>   |  |  |  |                                 |   |
| Turbidity (NTU)                           | <u>31.2</u>   | <u>320</u>      | <u>317</u>               | <u>316</u>    |  |  |  |                                 |   |
| Dissolved Oxygen (mg/L)                   | <u>2.49</u>   | <u>2.466</u>    | <u>2.45</u>              | <u>2.45</u>   |  |  |  |                                 |   |
| Well Condition Information                |               |                 |                          |               | Additional Comments                              |  |  |                                 |   |
| -overall condition acceptable? <u>yes</u> |               |                 |                          |               |  |  |  |                                 |   |
| -well cap acceptable?                     |               |                 |                          |               |  |  |  |                                 |   |
| -manhole and cover acceptable?            |               |                 |                          |               |  |  |  |                                 |   |
| -well pad acceptable?                     |               |                 |                          |               |  |  |  |                                 |   |
| -area safe?                               |               |                 |                          |               |  |  |  |                                 |   |
| -other comments                           |               |                 |                          |               |  |  |  |                                 |   |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |    |                       |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|----|-----------------------|------|
| Terry Project ID               |               | 2230.81        |                          | Well ID                              |   | 12719 - MW-9                                     |    |                       |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |    |                       |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |    |                       |      |
| Date                           |               | 5/29/2018      |                          |                                      |   |  |    |                       |      |
| Field Personnel                |               | HM LS          |                          | Well Diameter                        |   | 2  | in |                       |      |
| General Weather                |               | Overcast       |                          | Screened Interval                    |   | <del>0.000</del> unknown                         | ft |                       |      |
| Ambient Air Temperature        |               | 75             |                          | Total Well Depth (nearest 0.1')      |   | 35.2   | ft |                       |      |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   |  |    |                       |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column  |  |    | 9.94                  | ft   |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)   |  |    | 1.62                  | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)  |  |    | 4.84                  | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged   |  |    | <del>0.000</del> 5.25 | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)   |  |    |                       | 35.2 |
| Last Calibration (time)        | 1315          |                | Last Verification (time) | 1715                                 | Well Yield Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |    |                       |      |
| Volume (gal)                   | INT           | 1.75           | 3.5                      | 5.25                                 |   |  |    |                       |      |
| Time (military)                | 1827          | 1830           | 1833                     | 1836                                 |   |  |    |                       |      |
| pH (su)                        | 5.12          | 5.30           | 5.32                     | 5.33                                 |   |  |    |                       |      |
| Spec Conductivity (mS/cm)      | 0.072         | 0.040          | 0.037                    | 0.036                                |   |  |    |                       |      |
| Water Temperature (°C)         | 20.8          | 21.2           | 21.2                     | 21.2                                 |   |  |    |                       |      |
| Turbidity (NTU)                | 10.3          | 4.03           | 4.00                     | 3.99                                 |   |  |    |                       |      |
| Dissolved Oxygen (mg/L)        | 2.27          | 2.56           | 2.55                     | 2.55                                 |   |  |    |                       |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |    |                       |      |
| -overall condition acceptable? |               |                |                          | vault full of water                  |   |  |    |                       |      |
| -well cap acceptable?          |               |                |                          |                                      |   |  |    |                       |      |
| -manhole and cover acceptable? |               |                |                          | slight sheen                         |   |  |    |                       |      |
| -well pad acceptable?          |               |                |                          |                                      |   |  |    |                       |      |
| -area safe?                    |               |                |                          |                                      |   |  |    |                       |      |
| -other comments                |               |                |                          |                                      |   |  |    |                       |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information  |  |  |      |      |
|--------------------------------|---------------|----------------|--------------------------|--|--|--|------|------|
| Terry Project ID               |               | 2230.81        |                          | Well ID  |  | 12719 - MW-10                                    |      |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |      |      |
| Project Name                   |               | Hot Spot #3005 |                          |  |  |  |      |      |
| Date                           |               | 5/29/2018      |                          |  |  |  |      |      |
| Field Personnel                |               | HM LJ          |                          | Well Diameter  |  | 2  | in   |      |
| General Weather                |               | Overcast       |                          | Screened Interval  |  | 17-27  | ft   |      |
| Ambient Air Temperature        |               | 75             |                          | Total Well Depth (nearest 0.1')  |  | 27.2   | ft   |      |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01')   |  |  |      |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2  | Length of Water Column                 |  | 5.96 | ft   |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9   | 1 Casing Volume (0.163)                |  | 0.97 | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su  | 3 Casing Volumes (0.489)               |  | 2.91 | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm   | Total Volume Purged                    |  |      | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU  | Purge Technique Utilized (bailey pump) |  |      |      |
| Last Calibration (time)        | 1315          |                | Last Verification (time) | 1715   | Well Yield                             |  |      | 27.2 |
|                                |               |                |                          | <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High |  |  |      |      |
| Volume (gal)                   | INT           | 5              |                          |  |  |  |      |      |
| Time (military)                | 1750          |                |                          |  |  |  |      |      |
| pH (su)                        | 4.06          |                |                          |  |  |  |      |      |
| Spec Conductivity (mS/cm)      | 0.059         |                |                          |  |  |  |      |      |
| Water Temperature (°C)         | 20.9          |                |                          |  |  |  |      |      |
| Turbidity (NTU)                | 3.7           |                |                          |  |  |  |      |      |
| Dissolved Oxygen (mg/L)        | 1.81          |                |                          |  |  |  |      |      |
| Well Condition Information     |               |                |                          | Additional Comments  |  |  |      |      |
| -overall condition acceptable? |               |                |                          | YES  |  |  |      |      |
| -well cap acceptable?          |               |                |                          |  |  |  |      |      |
| -manhole and cover acceptable? |               |                |                          |  |  |  |      |      |
| -well pad acceptable?          |               |                |                          |  |  |  |      |      |
| -area safe?                    |               |                |                          |  |  |  |      |      |
| -other comments                |               |                |                          |  |  |  |      |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information                      |               |                          |               | Monitoring Well Information   |   |  |      |
|--|---------------|--------------------------|---------------|---|---|--|------|
| Terry Project ID                               |               | 2230.81                  |               | Well ID   |   | 12719 - MW-10R                                   |      |
| SCDHEC Permit No.                              |               | 12719                    |               | Testing Parameters  |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |      |
| Project Name                                   |               | Hot Spot #3005           |               |   |   |  |      |
| Date   |               | 5/29/2018                |               |   |   |  |      |
| Field Personnel                                |               | HM LS                    |               | Well Diameter   |   | 2  | in   |
| General Weather                                |               | Overcast                 |               | Screened Interval   |   | 22-32  | ft   |
| Ambient Air Temperature                        |               | 75                       |               | Total Well Depth (nearest 0.1')   |   | 32.1   | ft   |
| Quality Assurance                              |               |                          |               | Depth to Groundwater (nearest 0.01')  |   |  |      |
| Meter  | Horiba U-52-2 | Meter                    | Horiba U-52-2 | Length of Water Column  |   | 10.68  | ft   |
| Serial Number                                  | VPTPGA3X      | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)   |   | 1.74   | ft   |
| Calibration Constant                           | 4.00 su       | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)  |   | 5.22   | gals |
| Calibration Constant                           | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged   |   | 5.25   | gals |
| Calibration Constant                           | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailey, pump)   |   |  |      |
| Last Calibration (time)                        | 1315          | Last Verification (time) | 1715          | Well Yield <input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   |  |      |
| Volume (gal)                                   | 1NT           | 1.75                     | 3.5           | 5.25  | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |  |      |
| Time (military)                                | 1753          | 1756                     | 1759          | 1804  |   |  |      |
| pH (su)  | 4.43          | 4.30                     | 4.33          | 4.33  |   |  |      |
| Spec Conductivity (mS/cm)                      | 0.058         | 0.058                    | 0.058         | 0.058   |   |  |      |
| Water Temperature (°C)                         | 20.1          | 20.9                     | 20.9          | 20.9  |   |  |      |
| Turbidity (NTU)                                | 5.5           | 4.4                      | 4.6           | 4.5   |   |  |      |
| Dissolved Oxygen (mg/L)                        | 2.56          | 1.99                     | 1.96          | 1.95  |   |  |      |
| Well Condition Information                     |               |                          |               | Additional Comments   |   |  |      |
| -overall condition acceptable? <u>No bolts</u> |               |                          |               |   |   |  |      |
| -well cap acceptable?                          |               |                          |               |   |   |  |      |
| -manhole and cover acceptable?                 |               |                          |               |   |   |  |      |
| -well pad acceptable?                          |               |                          |               |   |   |  |      |
| -area safe?                                    |               |                          |               |   |   |  |      |
| -other comments                                |               |                          |               |   |   |  |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |    |                              |                                 |                               |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|----|------------------------------|---------------------------------|-------------------------------|
| Terry Project ID               |               | 2230.81        |                          | Well ID                              |   | 12719 - MW-11                                    |    |                              |                                 |                               |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |    |                              |                                 |                               |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |    |                              |                                 |                               |
| Date                           |               | 5/29/2018      |                          |                                      |   |  |    |                              |                                 |                               |
| Field Personnel                |               | HM LT          |                          | Well Diameter                        |   | 2  | in |                              |                                 |                               |
| General Weather                |               | Overcast       |                          | Screened Interval                    |   | <del>18-28</del>                                 | ft |                              |                                 |                               |
| Ambient Air Temperature        |               | 75             |                          | Total Well Depth (nearest 0.1')      |   | 28.2   | ft |                              |                                 |                               |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   |  |    |                              |                                 |                               |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |  |    | 6.30                         | ft                              |                               |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |  |    | 1.03                         | ft                              |                               |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |  |    | 3.09                         | gals                            |                               |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |  |    |                              | gals                            |                               |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |  |    |                              |                                 |                               |
| Last Calibration (time)        | 1315          |                | Last Verification (time) | 1715                                 | Well Yield                              |  |    | Low <input type="checkbox"/> | Medium <input type="checkbox"/> | High <input type="checkbox"/> |
| Volume (gal)                   | 115           | 9              |                          |                                      |   |  |    |                              |                                 |                               |
| Time (military)                | 1732          |                |                          |                                      |   |  |    |                              |                                 |                               |
| pH (su)                        | 4.59          |                |                          |                                      |   |  |    |                              |                                 |                               |
| Spec Conductivity (mS/cm)      | 0.048         |                |                          |                                      |   |  |    |                              |                                 |                               |
| Water Temperature (°C)         | 20.5          |                |                          |                                      |   |  |    |                              |                                 |                               |
| Turbidity (NTU)                | 0.0           |                |                          |                                      |   |  |    |                              |                                 |                               |
| Dissolved Oxygen (mg/L)        | 2.61          |                |                          |                                      |   |  |    |                              |                                 |                               |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |    |                              |                                 |                               |
| -overall condition acceptable? |               |                |                          |                                      |   |  |    |                              |                                 |                               |
| -well cap acceptable?          |               |                |                          |                                      |   |  |    |                              |                                 |                               |
| -manhole and cover acceptable? |               |                |                          | full of water                        |   |  |    |                              |                                 |                               |
| -well pad acceptable?          |               |                |                          |                                      |   |  |    |                              |                                 |                               |
| -area safe?                    |               |                |                          |                                      |   |  |    |                              |                                 |                               |
| -other comments                |               |                |                          |                                      |   |  |    |                              |                                 |                               |

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH. WRITE BELOW TO NEAREST 0.1'

28.2

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information   |  |  |    |   |
|--------------------------------|---------------|----------------|--------------------------|---|--|--|----|---|
| Terry Project ID               |               | 2230.81        |                          | Well ID   |  | 12719 - Mw-11e                                   |    |   |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters  |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |    |   |
| Project Name                   |               | Hot Spot #3005 |                          |   |  |  |    |   |
| Date                           |               | 5/29/2018      |                          |   |  |  |    |   |
| Field Personnel                |               | HM LS          |                          | Well Diameter   |  | 2  | in |   |
| General Weather                |               | Over-cast      |                          | Screened Interval   |  | 27-37  | ft |   |
| Ambient Air Temperature        |               | 75             |                          | Total Well Depth (nearest 0.1')   |  |  | ft |   |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01')  |  |  |    |   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2   | Length of Water Column   |  |    | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| Serial Number                  | VPTGA3X       |                | Serial Number            | V3KNWUE9  | 1 Casing Volume (0.163)  |  |    |   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su   | 3 Casing Volumes (0.489)   |  |    |   |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm  | Total Volume Purged  |  |    |   |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU   | Purge Technique Utilized (bailer, pump)  |  |    |   |
| Last Calibration (time)        | 1315          |                | Last Verification (time) |   | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |    |   |
| Volume (gal)                   |               |                |                          |   |  |  |    |   |
| Time (military)                |               |                |                          |   |  |  |    |   |
| pH (su)                        |               |                |                          |   |  |  |    |   |
| Spec Conductivity (mS/cm)      |               |                |                          |   |  |  |    |   |
| Water Temperature (°C)         |               |                |                          |   |  |  |    |   |
| Turbidity (NTU)                |               |                |                          |   |  |  |    |   |
| Dissolved Oxygen (mg/L)        |               |                |                          |   |  |  |    |   |
| Well Condition Information     |               |                |                          | Additional Comments   |  |  |    |   |
| -overall condition acceptable? |               |                |                          | wells obstructed by large puddle (shallow ditch draining away runoff - could not purge clear) |  |  |    |   |
| -well cap acceptable?          |               |                |                          |   |  |  |    |   |
| -manhole and cover acceptable? |               |                |                          |   |  |  |    |   |
| -well pad acceptable?          |               |                |                          |   |  |  |    |   |
| -area safe?                    |               |                |                          |   |  |  |    |   |
| -other comments                |               |                |                          |   |  |  |    |   |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                          |               | Monitoring Well Information             |  |  |                                 |
|--------------------------------|---------------|--------------------------|---------------|---|--|--|---------------------------------|
| Terry Project ID               |               | 2230.81                  |               | Well ID                                 |  | 12719 - Mw-12                                    |                                 |
| SCDHEC Permit No.              |               | 12719                    |               | Testing Parameters                      |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                                 |
| Project Name                   |               | Hot Spot #3005           |               |   |  |  |                                 |
| Date                           |               | 5/29/2018                |               |   |  |  |                                 |
| Field Personnel                |               | HML                      |               | Well Diameter                           |  | 2  | in                              |
| General Weather                |               | Overcast                 |               | Screened Interval                       |  | 20-30  | ft                              |
| Ambient Air Temperature        |               | 75                       |               | Total Well Depth (nearest 0.1')         |  | 30.4   | ft                              |
| Quality Assurance              |               |                          |               | Depth to Groundwater (nearest 0.01')    |  |  |                                 |
| Meter                          | Horiba U-52-2 | Meter                    | Horiba U-52-2 | Length of Water Column                  |  | 9.49   | ft                              |
| Serial Number                  | VTPGA3X       | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)                 |  | 1.55   | ft                              |
| Calibration Constant           | 4.00 su       | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)                |  | 4.65   | gals                            |
| Calibration Constant           | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged                     |  |  | gals                            |
| Calibration Constant           | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailer, pump) |  |  |                                 |
| Last Calibration (time)        | 1315          | Last Verification (time) | 1715          | Well Yield                              |  | Low <input type="checkbox"/>                     | Medium <input type="checkbox"/> |
|                                |               |                          |               |   |  | High <input type="checkbox"/>                    | 30.4                            |
| Volume (gal)                   | 1 NT          | S                        |               |   |  |  |                                 |
| Time (military)                | 1729          |                          |               |   |  |  |                                 |
| pH (su)                        | 5.05          |                          |               |   |  |  |                                 |
| Spec Conductivity (mS/cm)      | 0.102         |                          |               |   |  |  |                                 |
| Water Temperature (°C)         | 21.4          |                          |               |   |  |  |                                 |
| Turbidity (NTU)                | 1.4           |                          |               |   |  |  |                                 |
| Dissolved Oxygen (mg/L)        | 3.44          |                          |               |   |  |  |                                 |
| Well Condition Information     |               |                          |               | Additional Comments                     |  |  |                                 |
| -overall condition acceptable? |               |                          |               | Yes                                     |  |  |                                 |
| -well cap acceptable?          |               |                          |               |   |  |  |                                 |
| -manhole and cover acceptable? |               |                          |               |   |  |  |                                 |
| -well pad acceptable?          |               |                          |               |   |  |  |                                 |
| -area safe?                    |               |                          |               |   |  |  |                                 |
| -other comments                |               |                          |               |   |  |  |                                 |



**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |        |                          |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|--------|--------------------------|
| Terry Project ID               |               | 2230.81        |                          | Well ID                              |   | 12719 - MW-13                                    |        |                          |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |        |                          |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |        |                          |
| Date                           |               | 5/29/2018      |                          |                                      |   |  |        |                          |
| Field Personnel                |               | HM LT          |                          | Well Diameter                        |   | 2  | in     |                          |
| General Weather                |               | overcast       |                          | Screened Interval                    |   | 17-27  | ft     |                          |
| Ambient Air Temperature        |               | 75             |                          | Total Well Depth (nearest 0.1')      |   | 27.0   | ft     |                          |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 21.03  | ft     |                          |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |  | 5.37   | ft                       |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |  | 0.88   | ft                       |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |  | 2.63   | gals                     |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |  |        | gals                     |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |  |        |                          |
| Last Calibration (time)        | 1315          |                | Last Verification (time) | 1715                                 | Well Yield                              |  |        | 27.0                     |
|                                |               |                |                          |                                      | Low                                     | <input type="checkbox"/>                         | Medium | <input type="checkbox"/> |
|                                |               |                |                          |                                      | High                                    | <input type="checkbox"/>                         |        |                          |
| Volume (gal)                   | INT           |                | S                        |                                      |   |  |        |                          |
| Time (military)                | 1724          |                |                          |                                      |   |  |        |                          |
| pH (su)                        | 5.29          |                |                          |                                      |   |  |        |                          |
| Spec Conductivity (mS/cm)      | 0.083         |                |                          |                                      |   |  |        |                          |
| Water Temperature (°C)         | 22.0          |                |                          |                                      |   |  |        |                          |
| Turbidity (NTU)                | 10.0          |                |                          |                                      |   |  |        |                          |
| Dissolved Oxygen (mg/L)        | 3.91          |                |                          |                                      |   |  |        |                          |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |        |                          |
| -overall condition acceptable? |               |                |                          | yes                                  |   |  |        |                          |
| -well cap acceptable?          |               |                |                          |                                      |   |  |        |                          |
| -manhole and cover acceptable? |               |                |                          |                                      |   |  |        |                          |
| -well pad acceptable?          |               |                |                          |                                      |   |  |        |                          |
| -area safe?                    |               |                |                          |                                      |   |  |        |                          |
| -other comments                |               |                |                          |                                      |   |  |        |                          |

**Groundwater Sampling Log**




**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS


P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |      |  |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|------|--|
| Terry Project ID               |               | 2230.81        |                          | Well ID                              |   | 12719 - MW-A                                     |      |  |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |      |  |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |      |  |
| Date                           |               | 5/29/2018      |                          |                                      |   |  |      |  |
| Field Personnel                |               | HM LS          |                          | Well Diameter                        |   | 2  | in   |  |
| General Weather                |               | Overcast       |                          | Screened Interval                    |   | 21-31  | ft   |  |
| Ambient Air Temperature        |               | 75             |                          | Total Well Depth (nearest 0.1')      |   | 30.5   | ft   |  |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   |  |      |  |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |  | 4.78 | ft   |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |  | 0.77 | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |  | 2.31 | gals   |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |  |      | gals   |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailey, pump) |  |      |  |
| Last Calibration (time)        | 1315          |                | Last Verification (time) |                                      | Well Yield                              |  |      | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |
| Volume (gal)                   | 1NT           | S              |                          |                                      |   |  |      |  |
| Time (military)                | 1637          |                |                          |                                      |   |  |      |  |
| pH (su)                        | 6.49          |                |                          |                                      | No purge - sample taken                 |  |      |  |
| Spec Conductivity (mS/cm)      | 0.169         |                |                          |                                      |   |  |      |  |
| Water Temperature (°C)         | 22.9          |                |                          |                                      |   |  |      |  |
| Turbidity (NTU)                | 103           |                |                          |                                      |   |  |      |  |
| Dissolved Oxygen (mg/L)        | 2.85          |                |                          |                                      |   |  |      |  |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |      |  |
| -overall condition acceptable? |               | Yes            |                          |                                      |   |  |      |  |
| -well cap acceptable?          |               |                |                          |                                      |   |  |      |  |
| -manhole and cover acceptable? |               |                |                          |                                      |   |  |      |  |
| -well pad acceptable?          |               |                |                          |                                      |   |  |      |  |
| -area safe?                    |               |                |                          |                                      |   |  |      |  |
| -other comments                |               |                |                          |                                      |   |  |      |  |

### Groundwater Sampling Log

|  <b>TERRY Environmental Services</b><br><small>CLIENTS FIRST ALWAYS</small> |               |                |                          | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605                                     |   |  |    |      |      |
|---|---------------|----------------|--------------------------|--|---|--|----|------|------|
| Site Specific Information   |               |                |                          | Monitoring Well Information  |   |  |    |      |      |
| Terry Project ID  |               | 2230.81        |                          | Well ID  |   | 12719 - MW-15                                    |    |      |      |
| SCDHEC Permit No.   |               | 12719          |                          | Testing Parameters   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |    |      |      |
| Project Name  |               | Hot Spot #3005 |                          |  |   |  |    |      |      |
| Date  |               | 5/29/2018      |                          |  |   |  |    |      |      |
| Field Personnel   |               | HM LS          |                          | Well Diameter  |   | 2  | in |      |      |
| General Weather   |               | Overcast       |                          | Screened Interval  |   | 25-35  | ft |      |      |
| Ambient Air Temperature   |               | 75             |                          | Total Well Depth (nearest 0.1')  |   | 35.5   | ft |      |      |
| Quality Assurance   |               |                |                          | Depth to Groundwater (nearest 0.01')   |   |  |    |      |      |
| Meter   | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2  | Length of Water Column                  |  |    | 7.30 | ft   |
| Serial Number   | VTPGA3X       |                | Serial Number            | V3KNWUE9   | 1 Casing Volume (0.163)                 |  |    | 1.19 | ft   |
| Calibration Constant  | 4.00 su       |                | Calibration Constant     | 4.00 su  | 3 Casing Volumes (0.489)                |  |    | 3.57 | gals |
| Calibration Constant  | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm   | Total Volume Purged                     |  |    |      | gals |
| Calibration Constant  | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU  | Purge Technique Utilized (bailer, pump) |  |    |      |      |
| Last Calibration (time)   | 1315          |                | Last Verification (time) |  | Well Yield                              |  |    |      | 35.5 |
|   |               |                |                          | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   |  |    |      |      |
| Volume (gal)  | INT           | S              |                          |  |   |  |    |      |      |
| Time (military)   | 1650          |                |                          |  |   |  |    |      |      |
| pH (su)   | 6.00          |                |                          |  |   |  |    |      |      |
| Spec Conductivity (mS/cm)   | 0.057         |                |                          |  | No purge - sample taken                 |  |    |      |      |
| Water Temperature (°C)  | 22.3          |                |                          |  |   |  |    |      |      |
| Turbidity (NTU)   | 1.30          |                |                          |  |   |  |    |      |      |
| Dissolved Oxygen (mg/L)   | 2.80          |                |                          |  |   |  |    |      |      |
| Well Condition Information  |               |                |                          | Additional Comments  |   |  |    |      |      |
| -overall condition acceptable?  |               |                |                          | Yes  |   |  |    |      |      |
| -well cap acceptable?   |               |                |                          |  |   |  |    |      |      |
| -manhole and cover acceptable?  |               |                |                          |  |   |  |    |      |      |
| -well pad acceptable?   |               |                |                          |  |   |  |    |      |      |
| -area safe?   |               |                |                          |  |   |  |    |      |      |
| -other comments   |               |                |                          |  |   |  |    |      |      |

**Groundwater Sampling Log**

|   |               |                  |                          |  |  |  |      |
|---|---------------|------------------|--------------------------|--|--|--|------|
|  <b>TERRY Environmental Services</b><br><small>CLIENTS FIRST ALWAYS</small> |               |                  |                          | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |  |  |      |
| <b>Site Specific Information</b>  |               |                  |                          | <b>Monitoring Well Information</b>                     |  |  |      |
| Terry Project ID  |               | 2230.81          |                          | Well ID  |  | 12719 - <u>MW-16</u>                             |      |
| SCDHEC Permit No.   |               | 12719            |                          | Testing Parameters                                     |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |      |
| Project Name  |               | Hot Spot #3005   |                          |  |  |  |      |
| Date  |               | <u>5/29/2018</u> |                          |  |  |  |      |
| Field Personnel   |               | <u>HMLT</u>      |                          | Well Diameter  |  | <u>2</u>   | in   |
| General Weather   |               | <u>Overcast</u>  |                          | Screened Interval                                      |  | <u>28-38</u>                                     | ft   |
| Ambient Air Temperature   |               | <u>75</u>        |                          | Total Well Depth (nearest 0.1')                        |  | <u>37.9</u>                                      | ft   |
| <b>Quality Assurance</b>  |               |                  |                          | Depth to Groundwater (nearest 0.01')                   |  | <u>30.09</u>                                     | ft   |
| Meter   | Horiba U-52-2 | or               | Meter                    | Horiba U-52-2  | Length of Water Column   | <u>7.81</u>                                      | ft   |
| Serial Number   | VPTPGA3X      |                  | Serial Number            | V3KNWUE9   | 1 Casing Volume (0.163)  | <u>1.27</u>                                      | ft   |
| Calibration Constant  | 4.00 su       |                  | Calibration Constant     | 4.00 su  | 3 Casing Volumes (0.489)   | <u>3.82</u>                                      | gals |
| Calibration Constant  | 4.49 mS/cm    |                  | Calibration Constant     | 4.49 mS/cm   | Total Volume Purged  | <u>—</u>   | gals |
| Calibration Constant  | 0.0 NTU       |                  | Calibration Constant     | 0.0 NTU  | Purge Technique Utilized ( <u>bailler, pump</u> )  |  |      |
| Last Calibration (time)   | <u>13:15</u>  |                  | Last Verification (time) |  | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |      |
| Volume (gal)  | <u>NT</u>     | <u>S</u>         |                          |  |  |  |      |
| Time (military)   | <u>1643</u>   |                  |                          |  |  |  |      |
| pH (su)   | <u>5.34</u>   |                  |                          |  |  |  |      |
| Spec Conductivity (mS/cm)   | <u>0.099</u>  |                  |                          |  | <u>no purge - sample taken</u>   |  |      |
| Water Temperature (°C)  | <u>8.22.7</u> |                  |                          |  |  |  |      |
| Turbidity (NTU)   | <u>2.12</u>   |                  |                          |  |  |  |      |
| Dissolved Oxygen (mg/L)   | <u>2.18</u>   |                  |                          |  |  |  |      |
| <b>Well Condition Information</b>   |               |                  |                          | <b>Additional Comments</b>                             |  |  |      |
| -overall condition acceptable?  |               | <u>Yes</u>       |                          |  |  |  |      |
| -well cap acceptable?   |               |                  |                          |  |  |  |      |
| -manhole and cover acceptable?  |               |                  |                          |  |  |  |      |
| -well pad acceptable?   |               |                  |                          |  |  |  |      |
| -area safe?   |               |                  |                          |  |  |  |      |
| -other comments   |               |                  |                          |  |  |  |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                          |               |   | Monitoring Well Information          |      |  |        |   |      |                          |      |
|--------------------------------|---------------|--------------------------|---------------|---|--------------------------------------|------|--|--------|---|------|--------------------------|------|
| Terry Project ID               |               | 2230.81                  |               |   | Well ID                              |      | 12719-MW-17                                      |        |   |      |                          |      |
| SCDHEC Permit No.              |               | 12719                    |               |   | Testing Parameters                   |      | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |        |   |      |                          |      |
| Project Name                   |               | Hot Spot #3005           |               |   |                                      |      |  |        |   |      |                          |      |
| Date                           |               | 5/30/2018                |               |   |                                      |      |  |        |   |      |                          |      |
| Field Personnel                |               | HM CT                    |               |   | Well Diameter                        |      | 2  | in     | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |      |                          |      |
| General Weather                |               | overcast                 |               |   | Screened Interval                    |      | 20-30  | ft     |   |      |                          |      |
| Ambient Air Temperature        |               | 80                       |               |   | Total Well Depth (nearest 0.1')      |      | 30.5   | ft     |   |      |                          |      |
| Quality Assurance              |               |                          |               |   | Depth to Groundwater (nearest 0.01') |      | 25.63  | ft     |   |      |                          |      |
| Meter                          | Horiba U-52-2 | or                       | Meter         | Horiba U-52-2                           | Length of Water Column               |      | 4.87   | ft     |   |      |                          |      |
| Serial Number                  | VPTPGA3X      |                          | Serial Number | V3KNWUE9                                | 1 Casing Volume (0.163)              |      | 0.79   | ft     |   |      |                          |      |
| Calibration Constant           | 4.00 su       | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)                |                                      | 2.38 | gals   |        |   |      |                          |      |
| Calibration Constant           | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged                     |                                      | 3.00 | gals   |        |   |      |                          |      |
| Calibration Constant           | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailer, pump) |                                      |      |  |        |   |      |                          |      |
| Last Calibration (time)        | 0900          | Last Verification (time) | 1300          | Well Yield                              |                                      | Low  | <input type="checkbox"/>                         | Medium | <input type="checkbox"/>  | High | <input type="checkbox"/> | 30.5 |
| Volume (gal)                   | 1NT           | 1                        | 2             | 3                                       |                                      |      |  |        |   |      |                          |      |
| Time (military)                | 1504          | 1506                     | 1508          | 1510                                    |                                      |      |  |        |   |      |                          |      |
| pH (su)                        | 5.33          | 5.58                     | 5.40          | 5.40                                    |                                      |      |  |        |   |      |                          |      |
| Spec Conductivity (mS/cm)      | 0.044         | 0.043                    | 0.043         | 0.043                                   |                                      |      |  |        |   |      |                          |      |
| Water Temperature (°C)         | 22.8          | 24.1                     | 24.1          | 24.1                                    |                                      |      |  |        |   |      |                          |      |
| Turbidity (NTU)                | 14.8          | 427                      | 412           | 410                                     |                                      |      |  |        |   |      |                          |      |
| Dissolved Oxygen (mg/L)        | 03.82         | 3.90                     | 3.92          | 3.92                                    |                                      |      |  |        |   |      |                          |      |
| Well Condition Information     |               |                          |               |   | Additional Comments                  |      |  |        |   |      |                          |      |
| -overall condition acceptable? |               |                          |               |   | Yes                                  |      |  |        |   |      |                          |      |
| -well cap acceptable?          |               |                          |               |   |                                      |      |  |        |   |      |                          |      |
| -manhole and cover acceptable? |               |                          |               |   |                                      |      |  |        |   |      |                          |      |
| -well pad acceptable?          |               |                          |               |   |                                      |      |  |        |   |      |                          |      |
| -area safe?                    |               |                          |               |   |                                      |      |  |        |   |      |                          |      |
| -other comments                |               |                          |               |   |                                      |      |  |        |   |      |                          |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                          |               |                                       | Monitoring Well Information          |      |  |        |   |      |                          |      |
|--------------------------------|---------------|--------------------------|---------------|---------------------------------------|--------------------------------------|------|--|--------|---|------|--------------------------|------|
| Terry Project ID               |               | 2230.81                  |               |                                       | Well ID                              |      | 12719 - MW-18                                    |        |   |      |                          |      |
| SCDHEC Permit No.              |               | 12719                    |               |                                       | Testing Parameters                   |      | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |        |   |      |                          |      |
| Project Name                   |               | Hot Spot #3005           |               |                                       |                                      |      |  |        |   |      |                          |      |
| Date                           |               | 5/30/2018                |               |                                       |                                      |      |  |        |   |      |                          |      |
| Field Personnel                |               | HM JT                    |               |                                       | Well Diameter                        |      | 2  | in     | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH.<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |      |                          |      |
| General Weather                |               | Overcast                 |               |                                       | Screened Interval                    |      | 20-30  | ft     |   |      |                          |      |
| Ambient Air Temperature        |               | 80                       |               |                                       | Total Well Depth (nearest 0.1')      |      | 30.0   | ft     |   |      |                          |      |
| Quality Assurance              |               |                          |               |                                       | Depth to Groundwater (nearest 0.01') |      | 23.86  | ft     |   |      |                          |      |
| Meter                          | Horiba U-52-2 | or                       | Meter         | Horiba U-52-2                         | Length of Water Column               |      | 6.14   | ft     |   |      |                          |      |
| Serial Number                  | VTPGA3X       |                          | Serial Number | V3KNWUE9                              | 1 Casing Volume (0.163)              |      | 1.00   | ft     |   |      |                          |      |
| Calibration Constant           | 4.00 su       | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)              |                                      | 3.00 | gals   |        |   |      |                          |      |
| Calibration Constant           | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged                   |                                      | 3.00 | gals   |        |   |      |                          |      |
| Calibration Constant           | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bail, pump) |                                      |      |  |        |   |      |                          |      |
| Last Calibration (time)        | 0900          | Last Verification (time) | 1300          | Well Yield                            |                                      | Low  | <input type="checkbox"/>                         | Medium | <input type="checkbox"/>  | High | <input type="checkbox"/> | 30.0 |
| Volume (gal)                   | INT           | 1.00                     | 2.0           | 3.0                                   |                                      |      |  |        |   |      |                          |      |
| Time (military)                | 1415          | 1417                     | 1419          | 1421                                  |                                      |      |  |        |   |      |                          |      |
| pH (su)                        | 6.65          | 5.77                     | 5.76          | 5.76                                  |                                      |      |  |        |   |      |                          |      |
| Spec Conductivity (mS/cm)      | 0.080         | 0.072                    | 0.071         | 0.071                                 |                                      |      |  |        |   |      |                          |      |
| Water Temperature (°C)         | 22.6          | 22.8                     | 22.8          | 22.8                                  |                                      |      |  |        |   |      |                          |      |
| Turbidity (NTU)                | 5.4           | 4.8                      | 4.6           | 4.4                                   |                                      |      |  |        |   |      |                          |      |
| Dissolved Oxygen (mg/L)        | 6.31          | 4.29                     | 4.20          | 4.21                                  |                                      |      |  |        |   |      |                          |      |
| Well Condition Information     |               |                          |               |                                       | Additional Comments                  |      |  |        |   |      |                          |      |
| -overall condition acceptable? |               |                          |               |                                       | Yes                                  |      |  |        |   |      |                          |      |
| -well cap acceptable?          |               |                          |               |                                       |                                      |      |  |        |   |      |                          |      |
| -manhole and cover acceptable? |               |                          |               |                                       |                                      |      |  |        |   |      |                          |      |
| -well pad acceptable?          |               |                          |               |                                       |                                      |      |  |        |   |      |                          |      |
| -area safe?                    |               |                          |               |                                       |                                      |      |  |        |   |      |                          |      |
| -other comments                |               |                          |               |                                       |                                      |      |  |        |   |      |                          |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information  |                          |  |  |
|--------------------------------|---------------|----------------|--------------------------|--|--------------------------|--|--|
| Terry Project ID               |               | 2230.81        |                          | Well ID  |                          | 12719 - MW-14                                    |  |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters   |                          | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |  |
| Project Name                   |               | Hot Spot #3005 |                          |  |                          |  |  |
| Date                           |               | 5/29/2018      |                          | Well Diameter  |                          | 2  | in   |
| Field Personnel                |               | HM LT          |                          | Screened Interval  |                          | 20-30  | ft   |
| General Weather                |               | Overcast       |                          | Total Well Depth (nearest 0.1')  |                          | 30.5   | ft   |
| Ambient Air Temperature        |               | 75             |                          | Depth to Groundwater (nearest 0.01')   |                          | 25.3   | ft   |
| Quality Assurance              |               |                |                          | Length of Water Column<br>1 Casing Volume (0.163)<br>3 Casing Volumes (0.489)<br>Total Volume Purged<br>Purge Technique Utilized (bailey pump) |                          |  |  |
| Meter                          | Horiba U-52-2 | or             | Meter                    |  |                          |  |  |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9   | TAG                      |  | BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1' |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su  | 30.5                     |  |  |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm   | Length of Water Column   |  |  |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU  | 1 Casing Volume (0.163)  |  |  |
| Last Calibration (time)        | 1315          |                | Last Verification (time) |  | 3 Casing Volumes (0.489) |  |  |
|                                |               |                |                          |  | Total Volume Purged      |  |  |
| Volume (gal)                   | 1NT           | 1.0            | 2.0                      | 3.0  | gals                     |  |  |
| Time (military)                | 1456          | 1459           | 1502                     | 1505   | gals                     |  |  |
| pH (su)                        | 5.09          | 4.60           | 4.65                     | 4.46   |                          |  |  |
| Spec Conductivity (mS/cm)      | 0.111         | 0.087          | 0.083                    | 0.082  |                          |  |  |
| Water Temperature (°C)         | 22.1          | 21.5           | 21.5                     | 21.5   |                          |  |  |
| Turbidity (NTU)                | 1.1           | 4.77           | 4.62                     | 4.60   |                          |  |  |
| Dissolved Oxygen (mg/L)        | 5.02          | 4.42           | 4.38                     | 4.40   |                          |  |  |
| Well Condition Information     |               |                |                          | Additional Comments  |                          |  |  |
| -overall condition acceptable? |               |                |                          | Yes  |                          |  |  |
| -well cap acceptable?          |               |                |                          |  |                          |  |  |
| -manhole and cover acceptable? |               |                |                          |  |                          |  |  |
| -well pad acceptable?          |               |                |                          |  |                          |  |  |
| -area safe?                    |               |                |                          |  |                          |  |  |
| -other comments                |               |                |                          |  |                          |  |  |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          |               | Monitoring Well Information            |  |  |                                 |  |
|--------------------------------|---------------|----------------|--------------------------|---------------|--|--|--|---------------------------------|--|
| Terry Project ID               |               | 2230.81        |                          |               | Well ID                                |  | 12719 - MW-20                                    |                                 |  |
| SCDHEC Permit No.              |               | 12719          |                          |               | Testing Parameters                     |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                                 |  |
| Project Name                   |               | Hot Spot #3005 |                          |               |  |  |  |                                 |  |
| Date                           |               | 5/29/2018      |                          |               |  |  |  |                                 |  |
| Field Personnel                |               | HMLT           |                          |               | Well Diameter                          |  | 2  | in                              | TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1' |
| General Weather                |               | Overcast       |                          |               | Screened Interval                      |  | 20-30  | ft                              |  |
| Ambient Air Temperature        |               | 75             |                          |               | Total Well Depth (nearest 0.1')        |  | 30.5   | ft                              |  |
| Quality Assurance              |               |                |                          |               | Depth to Groundwater (nearest 0.01')   |  | 25.80  | ft                              |  |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2 | Length of Water Column                 |  | 4.70   | ft                              |  |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)                |  | 0.77   | ft                              |  |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)               |  | 2.30   | gals                            |  |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged                    |  | 3.0  | gals                            |  |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (baile, pump) |  |  |                                 |  |
| Last Calibration (time)        | 135           |                | Last Verification (time) |               | Well Yield                             |  | Low <input checked="" type="checkbox"/>          | Medium <input type="checkbox"/> | High <input type="checkbox"/>  |
| Volume (gal)                   | 1NT           | 1.0            | 2.0                      | 3.0           |  |  |  |                                 | 30.5   |
| Time (military)                | 1511          | 1514           | 1517                     | 1520          |  |  |  |                                 |  |
| pH (su)                        | 4.87          | 5.00           | 5.09                     | 5.09          |  |  |  |                                 |  |
| Spec Conductivity (mS/cm)      | 0.091         | 0.077          | 0.071                    | 0.071         |  |  |  |                                 |  |
| Water Temperature (°C)         | 22.7          | 21.4           | 21.4                     | 21.4          |  |  |  |                                 |  |
| Turbidity (NTU)                | 72.0          | 85.1           | 86.9                     | 87.3          |  |  |  |                                 |  |
| Dissolved Oxygen (mg/L)        | 3.18          | 2.90           | 2.89                     | 2.86          |  |  |  |                                 |  |
| Well Condition Information     |               |                |                          |               | Additional Comments                    |  |  |                                 |  |
| -overall condition acceptable? |               |                |                          |               |  |  |  |                                 |  |
| -well cap acceptable?          |               |                |                          |               |  |  |  |                                 |  |
| -manhole and cover acceptable? |               |                |                          |               |  |  |  |                                 |  |
| -well pad acceptable?          |               |                |                          |               |  |  |  |                                 |  |
| -area safe?                    |               |                |                          |               |  |  |  |                                 |  |
| -other comments                |               |                |                          |               |  |  |  |                                 |  |



**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          |               | Monitoring Well Information              |  |  |  |   |
|--------------------------------|---------------|----------------|--------------------------|---------------|--|--|--|--|---|
| Terry Project ID               |               | 2230.81        |                          |               | Well ID                                  |  | 12719-MW-21                                      |  |   |
| SCDHEC Permit No.              |               | 12719          |                          |               | Testing Parameters                       |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |  |   |
| Project Name                   |               | Hot Spot #3005 |                          |               |  |  |  |  |   |
| Date                           |               | 5/29/2018      |                          |               |  |  |  |  |   |
| Field Personnel                |               | HM LT          |                          |               | Well Diameter                            |  | 2  | in   | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| General Weather                |               | Overcast       |                          |               | Screened Interval                        |  | 20-30  | ft   |   |
| Ambient Air Temperature        |               | 75             |                          |               | Total Well Depth (nearest 0.1')          |  | 30.0   | ft   |   |
| Quality Assurance              |               |                |                          |               | Depth to Groundwater (nearest 0.01')     |  | 24.98  | ft   |   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2 | Length of Water Column                   |  | 5.02   | ft   |   |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)                  |  | 0.82   | ft   |   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)                 |  | 2.45   | gals   |   |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged                      |  | 3.0  | gals   |   |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bubbler, pump) |  |  |  |   |
| Last Calibration (time)        | 1315          |                | Last Verification (time) |               | Well Yield                               |  |  | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> | 30.0  |
| Volume (gal)                   | 1NT           | 1.0            | 2.0                      | 3.0           |  |  |  |  |   |
| Time (military)                | 1526          | 1529           | 1532                     | 1535          |  |  |  |  |   |
| pH (su)                        | 5.06          | 4.87           | 4.90                     | 4.91          |  |  |  |  |   |
| Spec Conductivity (mS/cm)      | 0.089         | 0.071          | 0.069                    | 0.068         |  |  |  |  |   |
| Water Temperature (°C)         | 22.8          | 23.5           | 23.5                     | 23.5          |  |  |  |  |   |
| Turbidity (NTU)                | 1.29          | 2.11           | 2.14                     | 2.14          |  |  |  |  |   |
| Dissolved Oxygen (mg/L)        | 3.11          | 2.89           | 2.82                     | 2.85          |  |  |  |  |   |
| Well Condition Information     |               |                |                          |               | Additional Comments                      |  |  |  |   |
| -overall condition acceptable? |               |                |                          |               | Yes                                      |  |  |  |   |
| -well cap acceptable?          |               |                |                          |               |  |  |  |  |   |
| -manhole and cover acceptable? |               |                |                          |               |  |  |  |  |   |
| -well pad acceptable?          |               |                |                          |               |  |  |  |  |   |
| -area safe?                    |               |                |                          |               |  |  |  |  |   |
| -other comments                |               |                |                          |               |  |  |  |  |   |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information          |               |                |                          |               | Monitoring Well Information   |  |  |      |   |
|------------------------------------|---------------|----------------|--------------------------|---------------|---|--|--|------|---|
| Terry Project ID                   |               | 2230.81        |                          |               | Well ID   |  | 12719 - MW-22                                    |      |   |
| SCDHEC Permit No.                  |               | 12719          |                          |               | Testing Parameters  |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |      |   |
| Project Name                       |               | Hot Spot #3005 |                          |               |   |  |  |      |   |
| Date                               |               | 5/30/2018      |                          |               |   |  |  |      |   |
| Field Personnel                    |               | HM CS          |                          |               | Well Diameter   |  | 2  | in   | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| General Weather                    |               | Overcast       |                          |               | Screened Interval   |  | 25-35  | ft   |   |
| Ambient Air Temperature            |               | 80             |                          |               | Total Well Depth (nearest 0.1')   |  | 35.0   | ft   |   |
| Quality Assurance                  |               |                |                          |               | Depth to Groundwater (nearest 0.01')  |  | 30.37  | ft   |   |
| Meter                              | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2 | Length of Water Column  |  | 4.66   | ft   |   |
| Serial Number                      | VTPGA3X       |                | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)   |  | 0.76   | ft   |   |
| Calibration Constant               | 4.00 su       |                | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)  |  | 2.28   | gals |   |
| Calibration Constant               | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged   |  | 3  | gals |   |
| Calibration Constant               | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (hailer, pump)   |  |  |      |   |
| Last Calibration (time)            | 0900          |                | Last Verification (time) | 1300          | Well Yield Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |  |      |   |
| Volume (gal)                       | INT           | 1              | 2                        | 3             |   |  |  |      |   |
| Time (military)                    | 1542          | 1544           | 1546                     | 1548          |   |  |  |      |   |
| pH (su)                            | 5.43          | 5.33           | 5.32                     | 5.32          |   |  |  |      |   |
| Spec Conductivity (mS/cm)          | 0.045         | 0.045          | 0.045                    | 0.045         |   |  |  |      |   |
| Water Temperature (°C)             | 23.2          | 23.5           | 23.5                     | 23.5          |   |  |  |      |   |
| Turbidity (NTU)                    | 25.1          | 37.1           | 30.6                     | 30.9          |   |  |  |      |   |
| Dissolved Oxygen (mg/L)            | 2.99          | 1.85           | 1.91                     | 1.80          |   |  |  |      |   |
| Well Condition Information         |               |                |                          |               | Additional Comments   |  |  |      |   |
| -overall condition acceptable? Yes |               |                |                          |               |   |  |  |      |   |
| -well cap acceptable?              |               |                |                          |               |   |  |  |      |   |
| -manhole and cover acceptable?     |               |                |                          |               |   |  |  |      |   |
| -well pad acceptable?              |               |                |                          |               |   |  |  |      |   |
| -area safe?                        |               |                |                          |               |   |  |  |      |   |
| -other comments                    |               |                |                          |               |   |  |  |      |   |

### Groundwater Sampling Log



## TERRY Environmental Services

CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          |               | Monitoring Well Information            |  |  |                                 |   |
|--------------------------------|---------------|----------------|--------------------------|---------------|--|--|--|---------------------------------|---|
| Terry Project ID               |               | 2230.81        |                          |               | Well ID                                |  | 12719 - MW-23                                    |                                 |   |
| SCDHEC Permit No.              |               | 12719          |                          |               | Testing Parameters                     |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                                 |   |
| Project Name                   |               | Hot Spot #3005 |                          |               |  |  |  |                                 |   |
| Date                           |               | 5/30/2018      |                          |               |  |  |  |                                 |   |
| Field Personnel                |               | HM LT          |                          |               | Well Diameter                          |  | 2  | in                              | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| General Weather                |               | Overcast       |                          |               | Screened Interval                      |  | 25-35  | ft                              |   |
| Ambient Air Temperature        |               | 80             |                          |               | Total Well Depth (nearest 0.1')        |  | 35.0   | ft                              |   |
| Quality Assurance              |               |                |                          |               | Depth to Groundwater (nearest 0.01')   |  | 29.74  | ft                              |   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2 | Length of Water Column                 |  | 5.66   | ft                              |   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)                |  | 0.923  | ft                              |   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)               |  | 2.77   | gals                            |   |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged                    |  | 3.00   | gals                            |   |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailey pump) |  |  |                                 |   |
| Last Calibration (time)        | 0900          |                | Last Verification (time) | 1300          | Well Yield                             |  | Low <input type="checkbox"/>                     | Medium <input type="checkbox"/> | High <input type="checkbox"/>   |
| Volume (gal)                   | 1 NT          | 1              | 2                        | 3             |  |  |  |                                 | 35.0  |
| Time (military)                | 1450          | 1452           | 1454                     | 1456          |  |  |  |                                 |   |
| pH (su)                        | 5.32          | 5.36           | 5.37                     | 5.37          |  |  |  |                                 |   |
| Spec Conductivity (mS/cm)      | 0.045         | 0.054          | 0.056                    | 0.057         |  |  |  |                                 |   |
| Water Temperature (°C)         | 22.8          | 23.0           | 23.0                     | 23.0          |  |  |  |                                 |   |
| Turbidity (NTU)                | 55.4          | 41             | 403                      | 401           |  |  |  |                                 |   |
| Dissolved Oxygen (mg/L)        | 2.00          | 2.08           | 2.09                     | 2.09          |  |  |  |                                 |   |
| Well Condition Information     |               |                |                          |               | Additional Comments                    |  |  |                                 |   |
| -overall condition acceptable? |               |                |                          |               |  |  |  |                                 |   |
| -well cap acceptable?          |               |                |                          |               |  |  |  |                                 |   |
| -manhole and cover acceptable? |               |                |                          |               |  |  |  |                                 |   |
| -well pad acceptable?          |               |                |                          |               |  |  |  |                                 |   |
| -area safe?                    |               |                |                          |               |  |  |  |                                 |   |
| -other comments                |               |                |                          |               |  |  |  |                                 |   |

**Groundwater Sampling Log**



P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                          |               |   | Monitoring Well Information          |      |  |        |   |      |                          |      |
|--------------------------------|---------------|--------------------------|---------------|---|--------------------------------------|------|--|--------|---|------|--------------------------|------|
| Terry Project ID               |               | 2230.81                  |               |   | Well ID                              |      | 12719 - Mw-24                                    |        |   |      |                          |      |
| SCDHEC Permit No.              |               | 12719                    |               |   | Testing Parameters                   |      | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |        |   |      |                          |      |
| Project Name                   |               | Hot Spot #3005           |               |   |                                      |      |  |        |   |      |                          |      |
| Date                           |               | 5/30/2018                |               |   |                                      |      |  |        |   |      |                          |      |
| Field Personnel                |               | HM CJ                    |               |   | Well Diameter                        |      | 2  | in     | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |      |                          |      |
| General Weather                |               | Overcast                 |               |   | Screened Interval                    |      | 24-31  | ft     |   |      |                          |      |
| Ambient Air Temperature        |               | 80                       |               |   | Total Well Depth (nearest 0.1')      |      | 34.0   | ft     |   |      |                          |      |
| Quality Assurance              |               |                          |               |   | Depth to Groundwater (nearest 0.01') |      | 27.37  | ft     |   |      |                          |      |
| Meter                          | Horiba U-52-2 | or                       | Meter         | Horiba U-52-2                           | Length of Water Column               |      | 4.63   | ft     |   |      |                          |      |
| Serial Number                  | VPTPGA3X      |                          | Serial Number | V3KNWUE9                                | 1 Casing Volume (0.163)              |      | 1.08   | ft     |   |      |                          |      |
| Calibration Constant           | 4.00 su       | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)                |                                      | 3.24 | gals   |        |   |      |                          |      |
| Calibration Constant           | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged                     |                                      | 3.75 | gals   |        |   |      |                          |      |
| Calibration Constant           | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailer, pump) |                                      |      |  |        |   |      |                          |      |
| Last Calibration (time)        | 0900          | Last Verification (time) |               | Well Yield                              |                                      | Low  | <input type="checkbox"/>                         | Medium | <input type="checkbox"/>  | High | <input type="checkbox"/> | 34.0 |
| Volume (gal)                   | 1NT           | 1.25                     | 2.5           | 3.75                                    |                                      |      |  |        |   |      |                          |      |
| Time (military)                | 1231          | 1234                     | 1237          | 1240                                    |                                      |      |  |        |   |      |                          |      |
| pH (su)                        | 6.89          | 7.01                     | 7.04          | 7.05                                    |                                      |      |  |        |   |      |                          |      |
| Spec Conductivity (mS/cm)      | 0.119         | 0.116                    | 0.116         | 0.116                                   |                                      |      |  |        |   |      |                          |      |
| Water Temperature (°C)         | 24.1          | 24.5                     | 24.5          | 24.5                                    |                                      |      |  |        |   |      |                          |      |
| Turbidity (NTU)                | 11.6          | 28.6                     | 27.9          | 27.7                                    |                                      |      |  |        |   |      |                          |      |
| Dissolved Oxygen (mg/L)        | 3.01          | 3.32                     | 3.30          | 3.30                                    |                                      |      |  |        |   |      |                          |      |
| Well Condition Information     |               |                          |               |   | Additional Comments                  |      |  |        |   |      |                          |      |
| -overall condition acceptable? |               |                          |               |   |                                      |      |  |        |   |      |                          |      |
| -well cap acceptable?          |               |                          |               |   |                                      |      |  |        |   |      |                          |      |
| -manhole and cover acceptable? |               |                          |               |   |                                      |      |  |        |   |      |                          |      |
| -well pad acceptable?          |               |                          |               |   |                                      |      |  |        |   |      |                          |      |
| -area safe?                    |               |                          |               |   |                                      |      |  |        |   |      |                          |      |
| -other comments                |               |                          |               |   |                                      |      |  |        |   |      |                          |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          |               | Monitoring Well Information  |  |  |      |   |
|--------------------------------|---------------|----------------|--------------------------|---------------|--|--|--|------|---|
| Terry Project ID               |               | 2230.81        |                          |               | Well ID  |  | 12719 - MW-25                                    |      |   |
| SCDHEC Permit No.              |               | 12719          |                          |               | Testing Parameters   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |      |   |
| Project Name                   |               | Hot Spot #3005 |                          |               |  |  |  |      |   |
| Date                           |               | 5/30/2018      |                          |               |  |  |  |      |   |
| Field Personnel                |               | HM CJ          |                          |               | Well Diameter  |  | 5  | in   | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| General Weather                |               | overcast       |                          |               | Screened Interval  |  | 20-30  | ft   |   |
| Ambient Air Temperature        |               | 70             |                          |               | Total Well Depth (nearest 0.1')  |  | 30.0   | ft   |   |
| Quality Assurance              |               |                |                          |               | Depth to Groundwater (nearest 0.01')   |  | 25.06  | ft   |   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2 | Length of Water Column   |  | 4.94   | ft   |   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)  |  | 0.81   | ft   |   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)   |  | 2.42   | gals |   |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged  |  | 3.00   | gals |   |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailer, pump)  |  |  |      |   |
| Last Calibration (time)        | 0900          |                | Last Verification (time) |               | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |  |      |   |
| Volume (gal)                   | INT           | 1.0            | 2.0                      | 3.0           |  |  |  |      |   |
| Time (military)                | 0914          | 0916           | 0918                     | 0920          |  |  |  |      |   |
| pH (su)                        | 5.09          | 5.19           | 5.20                     | 5.20          |  |  |  |      |   |
| Spec Conductivity (mS/cm)      | 0.182         | 0.190          | 0.192                    | 0.192         |  |  |  |      |   |
| Water Temperature (°C)         | 22.1          | 23.4           | 23.4                     | 23.4          |  |  |  |      |   |
| Turbidity (NTU)                | 6.9           | 60.9           | 41.7                     | 62.0          |  |  |  |      |   |
| Dissolved Oxygen (mg/L)        | 2.99          | 3.35           | 3.36                     | 3.36          |  |  |  |      |   |
| Well Condition Information     |               |                |                          |               | Additional Comments  |  |  |      |   |
| -overall condition acceptable? |               |                |                          |               |  |  |  |      |   |
| -well cap acceptable?          |               |                |                          |               |  |  |  |      |   |
| -manhole and cover acceptable? |               |                |                          |               |  |  |  |      |   |
| -well pad acceptable?          |               |                |                          |               |  |  |  |      |   |
| -area safe?                    |               |                |                          |               |  |  |  |      |   |
| -other comments                |               |                |                          |               |  |  |  |      |   |

**Groundwater Sampling Log**



P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |                             |                 |                          | Monitoring Well Information          |  |  |             |                          |
|--------------------------------|-----------------------------|-----------------|--------------------------|--------------------------------------|--|--|-------------|--------------------------|
| Terry Project ID               |                             | 2230.81         |                          | Well ID                              |  | 12719 - <i>EW-1</i>                              |             |                          |
| SCDHEC Permit No.              |                             | 12719           |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |             |                          |
| Project Name                   |                             | Hot Spot #3005  |                          |                                      |  |  |             |                          |
| Date                           |                             | 5/30/2018       |                          |                                      |  |  |             |                          |
| Field Personnel                |                             | <i>LJ HM</i>    |                          | Well Diameter                        |  | <i>4</i>   | in          |                          |
| General Weather                |                             | <i>Overcast</i> |                          | Screened Interval                    |  | <i>20-30</i>                                     | ft          |                          |
| Ambient Air Temperature        |                             | <i>80</i>       |                          | Total Well Depth (nearest 0.1')      |  | <i>30.0</i>                                      | ft          |                          |
| Quality Assurance              |                             |                 |                          | Depth to Groundwater (nearest 0.01') |  |  |             |                          |
| Meter                          | Horiba U-52-2               | or              | Meter                    | Horiba U-52-2                        | Length of Water Column                           |  | <i>3.61</i> | ft                       |
| Serial Number                  | VTPGA3X                     |                 | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                          |  | <i>2.35</i> | ft                       |
| Calibration Constant           | 4.00 su                     |                 | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                         |  | <i>7.07</i> | gals                     |
| Calibration Constant           | 4.49 mS/cm                  |                 | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                              |  | <i>7.5</i>  | gals                     |
| Calibration Constant           | 0.0 NTU                     |                 | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized ( <i>bailer</i> , pump) |  |             |                          |
| Last Calibration (time)        | <i>0900</i>                 |                 | Last Verification (time) | <i>1700</i>                          | Well Yield                                       |  |             | <i>30.0</i>              |
|                                |                             |                 |                          |                                      | Low  | <input type="checkbox"/>                         | Medium      | <input type="checkbox"/> |
|                                |                             |                 |                          |                                      | High   | <input type="checkbox"/>                         |             |                          |
| Volume (gal)                   | <i>INT</i>                  | <i>2.5</i>      | <i>5.0</i>               | <i>7.5</i>                           |  |  |             |                          |
| Time (military)                | <del>0900</del> <i>1732</i> | <i>1734</i>     | <i>1738</i>              | <i>1742</i>                          |  |  |             |                          |
| pH (su)                        | <i>5.71</i>                 | <i>5.82</i>     | <i>5.83</i>              | <i>5.83</i>                          |  |  |             |                          |
| Spec Conductivity (mS/cm)      | <i>0.414</i>                | <i>0.421</i>    | <i>0.422</i>             | <i>0.422</i>                         |  |  |             |                          |
| Water Temperature (°C)         | <i>25.1</i>                 | <i>23.5</i>     | <i>23.5</i>              | <i>23.5</i>                          |  |  |             |                          |
| Turbidity (NTU)                | <i>0.7</i>                  | <i>1.10</i>     | <i>1.13</i>              | <i>1.12</i>                          |  |  |             |                          |
| Dissolved Oxygen (mg/L)        | <i>3.71</i>                 | <i>3.04</i>     | <i>3.04</i>              | <i>3.05</i>                          |  |  |             |                          |
| Well Condition Information     |                             |                 |                          | Additional Comments                  |  |  |             |                          |
| -overall condition acceptable? |                             |                 |                          | <i>Yes</i>                           |  |  |             |                          |
| -well cap acceptable?          |                             |                 |                          |                                      |  |  |             |                          |
| -manhole and cover acceptable? |                             |                 |                          |                                      |  |  |             |                          |
| -well pad acceptable?          |                             |                 |                          |                                      |  |  |             |                          |
| -area safe?                    |                             |                 |                          |                                      |  |  |             |                          |
| -other comments                |                             |                 |                          |                                      |  |  |             |                          |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |                                 |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|---------------------------------|
| Terry Project ID               |               | 2230.81        |                          | Well ID                              |   | 12719 - RW-2                                     |                                 |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                                 |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |                                 |
| Date                           |               | 5/30/2018      |                          |                                      |   |  |                                 |
| Field Personnel                |               | HM LT          |                          | Well Diameter                        |   | 4  | in                              |
| General Weather                |               | Overcast       |                          | Screened Interval                    |   | 20-30  | ft                              |
| Ambient Air Temperature        |               | 80             |                          | Total Well Depth (nearest 0.1')      |   | 30.0   | ft                              |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 26.29  | ft                              |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  | 3.71   | ft                              |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 | 2.42   | ft                              |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                | 7.27   | gals                            |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     | 7.5  | gals                            |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |  |                                 |
| Last Calibration (time)        | 0900          |                | Last Verification (time) | 1700                                 | Well Yield                              | Low <input type="checkbox"/>                     | Medium <input type="checkbox"/> |
|                                |               |                |                          |                                      |   | High <input type="checkbox"/>                    | 30.0                            |
| Volume (gal)                   | INT           | 2.5            | 5.0                      | 7.5                                  |   |  |                                 |
| Time (military)                | 1720          | 1723           | 1726                     | 1730                                 |   |  |                                 |
| pH (su)                        | 4.77          | 6.50           | 6.50                     | 6.49                                 |   |  |                                 |
| Spec Conductivity (mS/cm)      | 0.396         | 0.137          | 0.136                    | 0.136                                |   |  |                                 |
| Water Temperature (°C)         | 26.3          | 24.7           | 24.7                     | 24.7                                 |   |  |                                 |
| Turbidity (NTU)                | 9.0           | 12.1           | 12.2                     | 12.2                                 |   |  |                                 |
| Dissolved Oxygen (mg/L)        | 4.22          | 3.40           | 3.60                     | 3.39                                 |   |  |                                 |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |                                 |
| -overall condition acceptable? |               |                |                          | Yes                                  |   |  |                                 |
| -well cap acceptable?          |               |                |                          |                                      |   |  |                                 |
| -manhole and cover acceptable? |               |                |                          |                                      |   |  |                                 |
| -well pad acceptable?          |               |                |                          |                                      |   |  |                                 |
| -area safe?                    |               |                |                          |                                      |   |  |                                 |
| -other comments                |               |                |                          |                                      |   |  |                                 |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information           |  |  |       |      |
|--------------------------------|---------------|----------------|--------------------------|---------------------------------------|--|--|-------|------|
| Terry Project ID               |               | 2230.81        |                          | Well ID                               |  | 12719-RW-3                                       |       |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                    |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |       |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                       |  |  |       |      |
| Date                           |               | 5/30/2018      |                          |                                       |  |  |       |      |
| Field Personnel                |               | HM LT          |                          | Well Diameter                         |  | 4  | in    |      |
| General Weather                |               | Overcast       |                          | Screened Interval                     |  | 25-35  | ft    |      |
| Ambient Air Temperature        |               | 80             |                          | Total Well Depth (nearest 0.1')       |  | 35.0   | ft    |      |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01')  |  |  |       |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                         | Length of Water Column   |  | 5.45  | ft   |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9                              | 1 Casing Volume (0.163)  |  | 3.69  | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                               | 3 Casing Volumes (0.489)   |  | 11.07 | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                            | Total Volume Purged  |  | 11.25 | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                               | Purge Technique Utilized (bailer, pump)  |  |       | 35.0 |
| Last Calibration (time)        | 0900          |                | Last Verification (time) | 1300                                  | Well Yield Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High <input type="checkbox"/> |  |       |      |
| Volume (gal)                   | 1NT           | 3.75           | 7.5                      | 11.25                                 |  |  |       |      |
| Time (military)                | 1642          | 1646           | 1650                     | 1655                                  |  |  |       |      |
| pH (su)                        | 5.68          | 5.67           | 5.65                     | 5.65                                  |  |  |       |      |
| Spec Conductivity (mS/cm)      | 0.158         | 0.176          | 0.178                    | 0.179                                 |  |  |       |      |
| Water Temperature (°C)         | 24.7          | 23.7           | 23.7                     | 23.7                                  |  |  |       |      |
| Turbidity (NTU)                | 11.2          | 45.7           | 47.3                     | 47.5                                  |  |  |       |      |
| Dissolved Oxygen (mg/L)        | 4.55          | 3.50           | 3.53                     | 3.51                                  |  |  |       |      |
| Well Condition Information     |               |                |                          | Additional Comments                   |  |  |       |      |
| -overall condition acceptable? |               |                |                          | Yes                                   |  |  |       |      |
| -well cap acceptable?          |               |                |                          |                                       |  |  |       |      |
| -manhole and cover acceptable? |               |                |                          |                                       |  |  |       |      |
| -well pad acceptable?          |               |                |                          |                                       |  |  |       |      |
| -area safe?                    |               |                |                          |                                       |  |  |       |      |
| -other comments                |               |                |                          | RW-3 Dup taken @ <del>1655</del> 1657 |  |  |       |      |



**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |                                 |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|---------------------------------|
| Terry Project ID               |               | 2230.81        |                          | Well ID                              |   | 12719 - MW-1D                                    |                                 |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                                 |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |                                 |
| Date                           |               | 5/30/2018      |                          |                                      |   |  |                                 |
| Field Personnel                |               | HM LJ          |                          | Well Diameter                        |   | 2  | in                              |
| General Weather                |               | Overcast       |                          | Screened Interval                    |   | 55-60  | ft                              |
| Ambient Air Temperature        |               | 80             |                          | Total Well Depth (nearest 0.1')      |   | <del>60.00</del> 58.8                            | ft                              |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 27.07  | ft                              |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  | 31.73  | ft                              |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 | 5.17   | ft                              |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                | 15.52  | gals                            |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     | 15.75  | gals                            |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |  |                                 |
| Last Calibration (time)        | 0900          |                | Last Verification (time) | 1700                                 | Well Yield                              | Low <input type="checkbox"/>                     | Medium <input type="checkbox"/> |
|                                |               |                |                          |                                      |   | High <input type="checkbox"/>                    | 58.8                            |
| Volume (gal)                   | INT           | 5.25           | 10.50                    | 15.75                                |   |  |                                 |
| Time (military)                | 1815          | 1818           | 1821                     | 1824                                 |   |  |                                 |
| pH (su)                        | 6.64          | 6.35           | 6.33                     | 6.33                                 |   |  |                                 |
| Spec Conductivity (mS/cm)      | 0.077         | 0.074          | 0.074                    | 0.074                                |   |  |                                 |
| Water Temperature (°C)         | 24.6          | 23.1           | 23.1                     | 23.1                                 |   |  |                                 |
| Turbidity (NTU)                | 13.9          | 19.7           | 19.8                     | 19.8                                 |   |  |                                 |
| Dissolved Oxygen (mg/L)        | 4.00          | 4.02           | 4.03                     | 4.03                                 |   |  |                                 |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |                                 |
| -overall condition acceptable? |               |                |                          | Yes                                  |   |  |                                 |
| -well cap acceptable?          |               |                |                          |                                      |   |  |                                 |
| -manhole and cover acceptable? |               |                |                          |                                      |   |  |                                 |
| -well pad acceptable?          |               |                |                          |                                      |   |  |                                 |
| -area safe?                    |               |                |                          |                                      |   |  |                                 |
| -other comments                |               |                |                          |                                      |   |  |                                 |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information             |               |                          |               |   | Monitoring Well Information          |       |  |    |  |
|---------------------------------------|---------------|--------------------------|---------------|---|--------------------------------------|-------|--|----|--|
| Terry Project ID                      |               | 2230.81                  |               |   | Well ID                              |       | 12719 - D <sub>w</sub> -2                        |    |  |
| SCDHEC Permit No.                     |               | 12719                    |               |   | Testing Parameters                   |       | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |    |  |
| Project Name                          |               | Hot Spot #3005           |               |   |                                      |       |  |    |  |
| Date                                  |               | 5/30/2018                |               |   |                                      |       |  |    |  |
| Field Personnel                       |               | HM LS                    |               |   | Well Diameter                        |       | 2  | in | TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1' |
| General Weather                       |               | Overcast                 |               |   | Screened Interval                    |       | 55-60  | ft |  |
| Ambient Air Temperature               |               | 75                       |               |   | Total Well Depth (nearest 0.1')      |       | 60.0   | ft |  |
| Quality Assurance                     |               |                          |               |   | Depth to Groundwater (nearest 0.01') |       | 30.44  | ft |  |
| Meter                                 | Horiba U-52-2 | or                       | Meter         | Horiba U-52-2   | Length of Water Column               |       | 29.56  | ft |  |
| Serial Number                         | VPTGA3X       |                          | Serial Number | V3KNWUE9  | 1 Casing Volume (0.163)              |       | 4.82   | ft |  |
| Calibration Constant                  | 4.00 su       | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)  |                                      | 14.45 | gals   |    |  |
| Calibration Constant                  | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged   |                                      | 15.0  | gals   |    |  |
| Calibration Constant                  | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailer, pump)   |                                      |       |  |    |  |
| Last Calibration (time)               | 0900          | Last Verification (time) |               | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> 60.0 |                                      |       |  |    |  |
| Volume (gal)                          | 1NT           | 5.0                      | 10.0          | 15.0  |                                      |       |  |    |  |
| Time (military)                       | 0945          | 0950                     | 0955          | 1000  |                                      |       |  |    |  |
| pH (su)                               | 11.01         | 11.74                    | 11.75         | 11.76   |                                      |       |  |    |  |
| Spec Conductivity (mS/cm)             | 0.599         | 0.694                    | 0.694         | 0.694   |                                      |       |  |    |  |
| Water Temperature (°C)                | 24.5          | 24.8                     | 24.8          | 24.8  |                                      |       |  |    |  |
| Turbidity (NTU)                       | 11.0          | 24.8                     | 24.9          | 24.9  |                                      |       |  |    |  |
| Dissolved Oxygen (mg/L)               | 3.06          | 3.26                     | 3.25          | 3.24  |                                      |       |  |    |  |
| Well Condition Information            |               |                          |               |   | Additional Comments                  |       |  |    |  |
| -overall condition acceptable?    Yes |               |                          |               |   |                                      |       |  |    |  |
| -well cap acceptable?                 |               |                          |               |   |                                      |       |  |    |  |
| -manhole and cover acceptable?        |               |                          |               |   |                                      |       |  |    |  |
| -well pad acceptable?                 |               |                          |               |   |                                      |       |  |    |  |
| -area safe?                           |               |                          |               |   |                                      |       |  |    |  |
| -other comments                       |               |                          |               |   |                                      |       |  |    |  |

**Groundwater Sampling Log**



P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |                               |                                 |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|-------------------------------|---------------------------------|
| Terry Project ID               |               | 2230.81        |                          | Well ID                              |   | 12719 - DW-3                                     |                               |                                 |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                               |                                 |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |                               |                                 |
| Date                           |               | 5/30/2018      |                          |                                      |   |  |                               |                                 |
| Field Personnel                |               | HM LS          |                          | Well Diameter                        |   | 2  | in                            |                                 |
| General Weather                |               | Overcast       |                          | Screened Interval                    |   | 60-65  | ft                            |                                 |
| Ambient Air Temperature        |               | 80             |                          | Total Well Depth (nearest 0.1')      |   | 65.0   | ft                            |                                 |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   |  |                               |                                 |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |  | 3.4                           | ft                              |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |  | 0.55                          | ft                              |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |  | 1.66                          | gals                            |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |  | 2.25                          | gals                            |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bubler, pump) |  |                               |                                 |
| Last Calibration (time)        | 0900          |                | Last Verification (time) | 1300                                 | Well Yield                              |  | Low <input type="checkbox"/>  | Medium <input type="checkbox"/> |
|                                |               |                |                          |                                      |   |  | High <input type="checkbox"/> | 65.0                            |
| Volume (gal)                   | 1NT           | 0.75           | 1.5                      | 2.25                                 |   |  |                               |                                 |
| Time (military)                | 1326          | 1329           | 1332                     | 1335                                 |   |  |                               |                                 |
| pH (su)                        | 9.92          | 10.20          | 10.21                    | 10.21                                |   |  |                               |                                 |
| Spec Conductivity (mS/cm)      | 0.989         | 1.03           | 1.02                     | 1.01                                 |   |  |                               |                                 |
| Water Temperature (°C)         | 23.7          | 25.2           | 25.2                     | 25.2                                 |   |  |                               |                                 |
| Turbidity (NTU)                | 3.6           | 2.6            | 2.20                     | 2.3                                  |   |  |                               |                                 |
| Dissolved Oxygen (mg/L)        | 4.67          | 4.83           | 4.82                     | 4.82                                 |   |  |                               |                                 |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |                               |                                 |
| -overall condition acceptable? |               |                |                          |                                      |   |  |                               |                                 |
| -well cap acceptable?          |               |                |                          |                                      |   |  |                               |                                 |
| -manhole and cover acceptable? |               |                |                          |                                      |   |  |                               |                                 |
| -well pad acceptable?          |               |                |                          |                                      |   |  |                               |                                 |
| -area safe?                    |               |                |                          |                                      |   |  |                               |                                 |
| -other comments                |               |                |                          |                                      |   |  |                               |                                 |

**Groundwater Sampling Log**

|   |  |
|---|--|
|  <b>TERRY Environmental Services</b><br><small>CLIENTS FIRST ALWAYS</small> | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |
|---|--|

| Site Specific Information      |               |                  |                          | Monitoring Well Information          |  |  |  |   |
|--------------------------------|---------------|------------------|--------------------------|--------------------------------------|--|--|--|---|
| Terry Project ID               |               | 2230.81          |                          | Well ID                              |  | 12719 - <i>Swi-1</i>                             |  |   |
| SCDHEC Permit No.              |               | 12719            |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |  |   |
| Project Name                   |               | Hot Spot #3005   |                          |                                      |  |  |  |   |
| Date                           |               | <i>5/30/2018</i> |                          |                                      |  |  |  |   |
| Field Personnel                |               | <i>HM LT</i>     |                          | Well Diameter                        |  | in   |  |   |
| General Weather                |               | <i>Overcast</i>  |                          | Screened Interval                    |  | ft   |  |   |
| Ambient Air Temperature        |               | <i>80</i>        |                          | Total Well Depth (nearest 0.1')      |  | ft   |  |   |
| Quality Assurance              |               |                  |                          | Depth to Groundwater (nearest 0.01') |  |  |  |   |
| Meter                          | Horiba U-52-2 | or               | Meter                    | Horiba U-52-2                        | Length of Water Column   |  |  | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| Serial Number                  | VPTPGA3X      |                  | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)  |  |  |   |
| Calibration Constant           | 4.00 su       |                  | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)   |  |  |   |
| Calibration Constant           | 4.49 mS/cm    |                  | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged  |  |  |   |
| Calibration Constant           | 0.0 NTU       |                  | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized ( <i>bailer, pump</i> )   |  |  |   |
| Last Calibration (time)        | <i>0900</i>   |                  | Last Verification (time) | <i>1700</i>                          | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |  |   |
| Volume (gal)                   | <i>INT</i>    | <i>S</i>         |                          |                                      |  |  |  |   |
| Time (military)                | <i>1845</i>   |                  |                          |                                      |  |  |  |   |
| pH (su)                        | <i>6.33</i>   |                  |                          |                                      |  |  |  |   |
| Spec Conductivity (mS/cm)      | <i>0.082</i>  |                  |                          |                                      |  |  |  |   |
| Water Temperature (°C)         | <i>22.7</i>   |                  |                          |                                      |  |  |  |   |
| Turbidity (NTU)                | <i>8.4</i>    |                  |                          |                                      |  |  |  |   |
| Dissolved Oxygen (mg/L)        | <i>4.64</i>   |                  |                          |                                      |  |  |  |   |
| Well Condition Information     |               |                  |                          | Additional Comments                  |  |  |  |   |
| -overall condition acceptable? |               |                  |                          |                                      |  |  |  |   |
| -well cap acceptable?          |               |                  |                          |                                      |  |  |  |   |
| -manhole and cover acceptable? |               |                  |                          |                                      |  |  |  |   |
| -well pad acceptable?          |               |                  |                          |                                      |  |  |  |   |
| -area safe?                    |               |                  |                          |                                      |  |  |  |   |
| -other comments                |               |                  |                          |                                      |  |  |  |   |



*Calibrator*  
**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: VWKALMKJ Date/Time: 5-29-18 1315 Inspector: [Signature]

Solution Manufacturer: <sup>Eastern Solutions</sup> ~~Aurifal~~ Lot Number: 1712d79 Expiration Date: 12-30-19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>  |
|--------------------------|---------------------------|------------------|
| pH 4.00                  | <u>3.90</u>               | $\pm 0.10$       |
| Conductivity: 4.49 mS/cm | <u>4.43</u> mS/cm         | $\pm 0.06$ mS/cm |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | $\pm 0.0$ NTU    |

|                             | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
|-----------------------------|-------------------------|---------------------------|-----------------|
| NIST-Traceable Thermometer: | <u>22.1</u> °C          | <u>22.2</u> °C            | $\pm 0.1$ °C    |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>   |
|------------------------|---|
| Temperature            | $\pm 1^{\circ}\text{C}$ against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                                     |
| pH                     | $\pm 0.2$ pH units of stated buffer value                     |
| Turbidity              | 10% of each standard used                                     |

Inspector's Maintenance Notes

HSH 3005

---

---

---

---

---

---

---

---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: VWKAUMKJ      Date/Time: 5/29/18      Inspector: LT  
1715

|   |                           |                            |                                  |
|---|---------------------------|----------------------------|----------------------------------|
| Solution Manufacturer: <sup>Eastern Solution</sup> <u>Aurical</u> |                           | Lot Number: <u>1712179</u> | Expiration Date: <u>12/30/19</u> |
| <u>Solution Value</u>   | <u>Instrument Reading</u> | <u>Accuracy</u>            |                                  |
| pH 4.00   | <u>3.96</u>               | $\pm 0.04$                 |                                  |
| Conductivity: 4.49 mS/cm  | <u>4.45</u> mS/cm         | $\pm 0.04$ mS/cm           |                                  |
| Turbidity: 0.0 NTU  | <u>0.0</u> NTU            | $\pm 0.0$ NTU              |                                  |

|  |                           |                 |
|--|---------------------------|-----------------|
| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
| NIST-Traceable Thermometer: <u>28.1</u> °C | <u>27.9</u> °C            | $\pm 0.2$ °C    |

**QAPP Acceptance Criteria**

|                        |   |
|------------------------|---|
| <u>Field Parameter</u> | <u>Accuracy</u>   |
| Temperature            | $\pm 1^\circ\text{C}$ against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                                   |
| pH                     | $\pm 0.2$ pH units of stated buffer value                   |
| Turbidity              | 10% of each standard used                                   |

**Inspector's Maintenance Notes**

---

---

---

---

---

---

---

---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: VWKALMKJ Date/Time: 5/29/18 Inspector: LT  
1928

Solution Manufacturer: Eastern Solutions Lot Number: 1712279 Expiration Date: 12/30/18  
Aurical

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--------------------------|---------------------------|-----------------|
| pH 4.00                  | <u>4.03</u>               | ± 0.03          |
| Conductivity: 4.49 mS/cm | <u>4.50</u> mS/cm         | ± 0.01 mS/cm    |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± <u>0</u> NTU  |

| <u>Standard Reading</u>                       | <u>Instrument Reading</u> | <u>Accuracy</u> |
|---|---------------------------|-----------------|
| NIST-Traceable<br>Thermometer: <u>27.1</u> °C | <u>27.0</u> °C            | ± 0.1 °C        |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

---

---

---

---

---

---

---

---



CALIBRATION  
~~VERTICAL~~  
HORIBA U-52-2 CHECK DATA SHEET

Serial Number: YWKALMKJ Date/Time: 5/30/18 Inspector: LS  
0900

Solution Manufacturer: <sup>Eastern Seaboard</sup> Aurical Lot Number: 1712079 Expiration Date: 12/30/19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>    |
|--------------------------|---------------------------|--------------------|
| pH 4.00                  | <u>3.98</u>               | ± 0.02             |
| Conductivity: 4.49 mS/cm | <u>4.50</u> mS/cm         | ± 0.01 mS/cm       |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± <del>0</del> NTU |

|                             | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u>   |
|-----------------------------|-------------------------|---------------------------|-------------------|
| NIST-Traceable Thermometer: | <u>22.3</u> °C          | <u>22.3</u> °C            | ± <del>0</del> °C |

QAPP Acceptance Criteria

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

Inspector's Maintenance Notes

---

---

---

---

---

---

---

---





**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: VWFALMKJ Date/Time: 5/30/18 Inspector: LJ  
1300

Solution Manufacturer: <sup>Eastern Solution</sup> - Aurical Lot Number: 1712279 Expiration Date: 12/30/18

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>    |
|--------------------------|---------------------------|--------------------|
| pH 4.00                  | <u>4.01</u>               | ± 0.01             |
| Conductivity: 4.49 mS/cm | <u>4.47</u> mS/cm         | ± 0.02 mS/cm       |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± <del>0</del> NTU |

|                                | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u>   |
|--------------------------------|-------------------------|---------------------------|-------------------|
| NIST-Traceable<br>Thermometer: | <u>28.4</u> °C          | <u>28.4</u> °C            | ± <del>0</del> °C |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

---

---

---

---

---

---

---

---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: VWKAUMKJ    Date/Time: 5/30/18    Inspector: LJ  
1700

|                                       |                            |                                  |
|---------------------------------------|----------------------------|----------------------------------|
| Solution Manufacturer: <u>Aurical</u> | Lot Number: <u>1712679</u> | Expiration Date: <u>12/30/19</u> |
| <u>Solution Value</u>                 | <u>Instrument Reading</u>  | <u>Accuracy</u>                  |
| pH: 4.00                              | <u>3.99</u>                | ± 0.01                           |
| Conductivity: 4.49 mS/cm              | <u>4.48</u> mS/cm          | ± 0.01 mS/cm                     |
| Turbidity: 0.0 NTU                    | <u>0.3</u> NTU             | ± 0.3 NTU                        |

|  |                           |                 |
|--|---------------------------|-----------------|
| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
| NIST-Traceable Thermometer: <u>28.4</u> °C | <u>28.3</u> °C            | ± 0.1 °C        |

| <u>QAPP Acceptance Criteria</u> |  |
|---------------------------------|--|
| <u>Field Parameter</u>          | <u>Accuracy</u>                            |
| Temperature                     | ±1°C against an NIST-traceable thermometer |
| Specific Conductance            | 10% of each standard used                  |
| pH                              | ±0.2 pH units of stated buffer value       |
| Turbidity                       | 10% of each standard used                  |

**Inspector's Maintenance Notes**

---

---

---

---

---

---

---

---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: VWRALMKJ Date/Time: 5/30/18 Inspector: LJ  
1858

Solution Manufacturer: <sup>Eastern Solutions</sup> Aurical Lot Number: 1712d79 Expiration Date: 12/30/19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>  |
|--------------------------|---------------------------|------------------|
| pH 4.00                  | <u>4.01</u>               | $\pm 0.01$       |
| Conductivity: 4.49 mS/cm | <u>4.52</u> mS/cm         | $\pm 0.03$ mS/cm |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | $\pm 0$ NTU      |

|                             | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
|-----------------------------|-------------------------|---------------------------|-----------------|
| NIST-Traceable Thermometer: | <u>26.8</u> °C          | <u>26.8</u> °C            | $\pm 0$ °C      |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>   |
|------------------------|---|
| Temperature            | $\pm 1^{\circ}\text{C}$ against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                                     |
| pH                     | $\pm 0.2$ pH units of stated buffer value                     |
| Turbidity              | 10% of each standard used                                     |

**Inspector's Maintenance Notes**

---

---

---

---

---

---

---

---

# SHEALY ENVIRONMENTAL SERVICES, INC.

---

## Report of Analysis

**Terry Environmental Services, Inc.**  
222 Varnfield Drive  
Suite F  
Summerville, SC 29483  
Attention: Kelly Cone

Project Name: Hot Spot #3005

Project Number: 2230.81

Lot Number: **TA29001**

Date Completed: 02/06/2018



02/06/2018 5:00 PM  
Approved and released by:  
Project Manager: Kelly M. Nance



The electronic signature above is the equivalent of a handwritten signature.  
This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

Shealy Environmental Services, Inc.  
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 [www.shealylab.com](http://www.shealylab.com)

# SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

## Case Narrative Terry Environmental Services, Inc. Lot Number: TA29001

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Samples GW-2, GW-7, GW-1D60, and GW-2D55 were analyzed, at the client's request.

### **Volatiles**

Sample -007 was diluted 5X due to the sample matrix. The reporting limits have been raised accordingly.

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Sample Summary Terry Environmental Services, Inc. Lot Number: TA29001

| Sample Number | Sample ID | Matrix  | Date Sampled    | Date Received |
|---------------|-----------|---------|-----------------|---------------|
| 001           | GW-1      | Aqueous | 01/25/2018 0930 | 01/26/2018    |
| 002           | GW-2      | Aqueous | 01/24/2018 1525 | 01/26/2018    |
| 003           | GW-3      | Aqueous | 01/24/2018 1600 | 01/26/2018    |
| 004           | GW-4      | Aqueous | 01/26/2018 1340 | 01/26/2018    |
| 005           | GW-5      | Aqueous | 01/25/2018 1200 | 01/26/2018    |
| 006           | GW-6      | Aqueous | 01/25/2018 1326 | 01/26/2018    |
| 007           | GW-7      | Aqueous | 01/25/2018 1444 | 01/26/2018    |
| 008           | GW-8      | Aqueous | 01/25/2018 1600 | 01/26/2018    |
| 009           | GW-9      | Aqueous | 01/25/2018 1642 | 01/26/2018    |
| 010           | GW-10     | Aqueous | 01/25/2018 1728 | 01/26/2018    |
| 011           | GW-11     | Aqueous | 01/25/2018 1805 | 01/26/2018    |
| 012           | GW-12     | Aqueous | 01/26/2018 1050 | 01/26/2018    |
| 013           | GW-13     | Aqueous | 01/26/2018 1132 | 01/26/2018    |
| 014           | GW1D50    | Aqueous | 01/24/2018 1620 | 01/26/2018    |
| 015           | GW1D55    | Aqueous | 01/24/2018 1650 | 01/26/2018    |
| 016           | GW1D60    | Aqueous | 01/24/2018 1720 | 01/26/2018    |
| 017           | GW2D50    | Aqueous | 01/26/2018 1400 | 01/26/2018    |
| 018           | GW2D55    | Aqueous | 01/26/2018 1430 | 01/26/2018    |

(18 samples)

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Detection Summary Terry Environmental Services, Inc. Lot Number: TA29001

| Sample | Sample ID | Matrix  | Parameter                   | Method | Result | Q | Units | Page |
|--------|-----------|---------|-----------------------------|--------|--------|---|-------|------|
| 002    | GW-2      | Aqueous | Naphthalene                 | 8260B  | 5.1    |   | ug/L  | 5    |
| 002    | GW-2      | Aqueous | Toluene                     | 8260B  | 0.51   | J | ug/L  | 5    |
| 002    | GW-2      | Aqueous | Xylenes (total)             | 8260B  | 6.6    |   | ug/L  | 5    |
| 016    | GW1D60    | Aqueous | Toluene                     | 8260B  | 0.47   | J | ug/L  | 7    |
| 018    | GW2D55    | Aqueous | Benzene                     | 8260B  | 13     |   | ug/L  | 8    |
| 018    | GW2D55    | Aqueous | Methyl tertiary butyl ether | 8260B  | 4.7    |   | ug/L  | 8    |
| 018    | GW2D55    | Aqueous | Toluene                     | 8260B  | 5.8    |   | ug/L  | 8    |
| 018    | GW2D55    | Aqueous | Xylenes (total)             | 8260B  | 1.4    |   | ug/L  | 8    |

(8 detections)

Description: GW-2

Matrix: Aqueous

Date Sampled: 01/24/2018 1525

Date Received: 01/26/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260B             | 1                 | 02/02/2018 2351 | BWS     |           | 63612 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| Benzene                            |             | 71-43-2           | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260B             | 5.1             |         | 1.0       | 0.40  | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260B             | 0.51            | J       | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260B             | 6.6             |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 100               | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 105               | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 107               | 70-130            |                 |         |           |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: GW-7

Matrix: Aqueous

Date Sampled: 01/25/2018 1444

Date Received: 01/26/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 5        | 02/03/2018 0355 | BWS     |           | 63612 |
| 2   | 5030B       | 8260B             | 5        | 02/06/2018 0333 | BWS     |           | 63733 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL  | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 5.0 | 2.0 | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 5.0 | 2.0 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 5.0 | 2.0 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 5.0 | 2.0 | ug/L  | 2   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 5.0 | 2.0 | ug/L  | 2   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 5.0 | 2.0 | ug/L  | 2   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits | Q | Run 2 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 93               | 70-130            |   | 99               | 70-130            |
| Bromofluorobenzene    |   | 111              | 70-130            |   | 91               | 70-130            |
| Toluene-d8            |   | 111              | 70-130            |   | 104              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: GW1D60

Matrix: Aqueous

Date Sampled: 01/24/2018 1720

Date Received: 01/26/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst  | Prep Date  | Batch       |             |          |
|------------------------------------|-------------|-------------------|-------------------|-----------------|----------|------------|-------------|-------------|----------|
| 1                                  | 5030B       | 8260B             | 1                 | 02/03/2018 0013 | BWS      |            | 63612       |             |          |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q        | LOQ        | DL          | Units       | Run      |
| Benzene                            |             | 71-43-2           | 8260B             | ND              |          | 1.0        | 0.40        | ug/L        | 1        |
| Ethylbenzene                       |             | 100-41-4          | 8260B             | ND              |          | 1.0        | 0.40        | ug/L        | 1        |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260B             | ND              |          | 1.0        | 0.40        | ug/L        | 1        |
| Naphthalene                        |             | 91-20-3           | 8260B             | ND              |          | 1.0        | 0.40        | ug/L        | 1        |
| <b>Toluene</b>                     |             | <b>108-88-3</b>   | <b>8260B</b>      | <b>0.47</b>     | <b>J</b> | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Xylenes (total)                    |             | 1330-20-7         | 8260B             | ND              |          | 1.0        | 0.40        | ug/L        | 1        |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |          |            |             |             |          |
| 1,2-Dichloroethane-d4              |             | 99                | 70-130            |                 |          |            |             |             |          |
| Bromofluorobenzene                 |             | 105               | 70-130            |                 |          |            |             |             |          |
| Toluene-d8                         |             | 107               | 70-130            |                 |          |            |             |             |          |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: GW2D55

Matrix: Aqueous

Date Sampled: 01/26/2018 1430

Date Received: 01/26/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 02/03/2018 0035 | BWS     |           | 63612 |

| Parameter                                 | CAS Number       | Analytical Method | Result     | Q | LOQ        | DL          | Units       | Run      |
|---|------------------|-------------------|------------|---|------------|-------------|-------------|----------|
| <b>Benzene</b>                            | <b>71-43-2</b>   | <b>8260B</b>      | <b>13</b>  |   | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Ethylbenzene                              | 100-41-4         | 8260B             | ND         |   | 1.0        | 0.40        | ug/L        | 1        |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>4.7</b> |   | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Naphthalene                               | 91-20-3          | 8260B             | ND         |   | 1.0        | 0.40        | ug/L        | 1        |
| <b>Toluene</b>                            | <b>108-88-3</b>  | <b>8260B</b>      | <b>5.8</b> |   | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| <b>Xylenes (total)</b>                    | <b>1330-20-7</b> | <b>8260B</b>      | <b>1.4</b> |   | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 100              | 70-130            |
| Bromofluorobenzene    |   | 106              | 70-130            |
| Toluene-d8            |   | 106              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## QC Summary

## Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ63612-001

Matrix: Aqueous

Batch: 63612

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| Benzene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 02/02/2018 2140 |
| Ethylbenzene                       | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 02/02/2018 2140 |
| Methyl tertiary butyl ether (MTBE) | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 02/02/2018 2140 |
| Naphthalene                        | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 02/02/2018 2140 |
| Toluene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 02/02/2018 2140 |
| Xylenes (total)                    | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 02/02/2018 2140 |
| Surrogate                          | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4              |        | 99    | 70-130           |     |      |       |                 |
| Bromofluorobenzene                 |        | 104   | 70-130           |     |      |       |                 |
| Toluene-d8                         |        | 106   | 70-130           |     |      |       |                 |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ63612-002

Matrix: Aqueous

Batch: 63612

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| Benzene                            | 50                  | 46            |                  | 1   | 93    | 70-130      | 02/02/2018 2039 |
| Ethylbenzene                       | 50                  | 49            |                  | 1   | 98    | 70-130      | 02/02/2018 2039 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 46            |                  | 1   | 92    | 70-130      | 02/02/2018 2039 |
| Naphthalene                        | 50                  | 48            |                  | 1   | 96    | 70-130      | 02/02/2018 2039 |
| Toluene                            | 50                  | 49            |                  | 1   | 98    | 70-130      | 02/02/2018 2039 |
| Xylenes (total)                    | 100                 | 99            |                  | 1   | 99    | 70-130      | 02/02/2018 2039 |
| Surrogate                          | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4              |                     | 97            | 70-130           |     |       |             |                 |
| Bromofluorobenzene                 |                     | 107           | 70-130           |     |       |             |                 |
| Toluene-d8                         |                     | 105           | 70-130           |     |       |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and  $\geq$  DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ63733-001

Matrix: Aqueous

Batch: 63733

Prep Method: 5030B

Analytical Method: 8260B

| Parameter             | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|-----------------------|--------|-------|------------------|-----|------|-------|-----------------|
| Naphthalene           | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 02/05/2018 2218 |
| Toluene               | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 02/05/2018 2218 |
| Xylenes (total)       | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 02/05/2018 2218 |
| Surrogate             | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4 |        | 97    | 70-130           |     |      |       |                 |
| Bromofluorobenzene    |        | 92    | 70-130           |     |      |       |                 |
| Toluene-d8            |        | 103   | 70-130           |     |      |       |                 |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ63733-002

Matrix: Aqueous

Batch: 63733

Prep Method: 5030B

Analytical Method: 8260B

| Parameter             | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|-----------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| Naphthalene           | 50                  | 50            |                  | 1   | 101   | 70-130      | 02/05/2018 2116 |
| Toluene               | 50                  | 49            |                  | 1   | 98    | 70-130      | 02/05/2018 2116 |
| Xylenes (total)       | 100                 | 100           |                  | 1   | 102   | 70-130      | 02/05/2018 2116 |
| Surrogate             | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4 |                     | 93            | 70-130           |     |       |             |                 |
| Bromofluorobenzene    |                     | 90            | 70-130           |     |       |             |                 |
| Toluene-d8            |                     | 99            | 70-130           |     |       |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and  $\geq$  DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

**Chain of Custody  
and  
Miscellaneous Documents**



**Chain of Custody Record**

**SHEALY ENVIRONMENTAL SERVICES, INC.**  
106 Vantage Point Drive • West Columbia, SC 29172  
Telephone No. 803-791-9700 Fax No. 803-791-9111  
www.shealylab.com

Number 73785

|   |                    |   |                                     |   |   |   |      |                           |  |
|---|--------------------|---|-------------------------------------|---|---|---|------|---------------------------|--|
| Client<br><b>Tecoy Environmental</b>  |                    | Report to Contact<br><b>Valley Grove</b>  |                                     | Telephone No. / E-mail<br><b>803-823-5200</b>   |   | Quote No.                                 |      |                           |  |
| Address<br><b>P.O. Box 25</b>   |                    | Sampler's Signature<br>   |                                     | Analysts (Attach list if more space is needed)  |   | Page <b>1</b> of <b>2</b>                 |      |                           |  |
| City<br><b>Summerville</b>  | State<br><b>SC</b> | Zip Code<br><b>29484</b>  | Printed Name<br><b>Hunter Miles</b> |   | <br><b>TA29001</b><br>KM#2<br>Remarks / Cooler I.D. |   |      |                           |  |
| Project Name<br><b>Hot Spot # 3005</b>  |                    | Project No.<br><b>2230-BI</b>   |                                     | P.O. No.  |   |   |      |                           |  |
| Sample ID / Description<br><small>(Containers for each sample may be combined on one line.)</small>   |                    | Date  | Time                                | Initials<br>C-Company<br>A-Analysis<br>S-Soil<br>W-Water  | Matrix  | No. of Containers<br>by Preservation Type |      |                           |  |
|   |                    |   |                                     |   |   | 3<br>3                                    |      |                           |  |
| GW-1  |                    | 1/25/18   | 0930                                | G   | X   | 3   |      |                           |  |
| GW-2  |                    | 1/24/18   | 1525                                |   |   | 3   |      |                           |  |
| GW-3  |                    | 1/24/18   | 1600                                |   |   | 3   |      |                           |  |
| GW-4  |                    | 1/26/18   | 1340                                |   |   | 3   |      |                           |  |
| GW-5  |                    | 1/25/18   | 1200                                |   |   | 3   |      |                           |  |
| GW-6  |                    | 1/25/18   | 1326                                |   |   | 3   |      |                           |  |
| GW-7  |                    | 1/25/18   | 1444                                |   |   | 3   |      |                           |  |
| GW-8  |                    | 1/25/18   | 1600                                |   |   | 3   |      |                           |  |
| GW-9  |                    | 1/25/18   | 1642                                |   |   | 3   |      |                           |  |
| GW-10   |                    | 1/25/18   | 1726                                |   |   | 3   |      |                           |  |
| Turn Around Time Required (Prior lab approval required for expedited TAT)<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify) |                    | Sample Disposal<br><input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Dispose by Lab |                                     | Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown |   |   |      | QC Requirements (Specify) |  |
| 1. Relinquished by  |                    | Date  | Time                                | 1. Received by  |   | Date                                      | Time |                           |  |
| 2. Relinquished by  |                    | Date  | Time                                | 2. Received by  |   | Date                                      | Time |                           |  |
| 3. Relinquished by  |                    | Date  | Time                                | 3. Received by  |   | Date                                      | Time |                           |  |
| 4. Relinquished by  |                    | Date  | Time                                | 4. Laboratory received by   |   | Date                                      | Time |                           |  |
| Note: All samples are retained for four weeks from receipt unless other arrangements are made.  |                    |   |                                     | LAB USE ONLY<br>Received on ice: (Circled) Yes No Ice Pack  |   | Receipt Temp: <b>5.4</b> °C               |      |                           |  |

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 06-01-2014





**Chain of Custody Record**

**SHEALY ENVIRONMENTAL SERVICES, INC.**  
106 Vantage Point Drive • West Columbia, SC 29172  
Telephone No. 803-791-9700 Fax No. 803-791-9111  
www.shealylab.com

Number 80709

|   |                    |   |                                     |   |  |                           |  |
|---|--------------------|---|-------------------------------------|---|--|---------------------------|--|
| Client<br><i>Terry Environmental</i>    |                    | Report to Contact<br><i>Kelly Cox</i>     |                                     | Telephone No. / E-mail<br><i>843-973-3600</i> |  | Quote No.                 |  |
| Address<br><i>P.O. Box 25</i>           |                    | Sampler's Signature<br><i>[Signature]</i> |                                     | Analysis (Attach Net if more space is needed) |  | Page <i>2</i> of <i>2</i> |  |
| City<br><i>Summerville</i>              | State<br><i>SC</i> | Zip Code<br><i>29484</i>                  | Printed Name<br><i>Hunter Miles</i> |   | <p><b>TA29001</b></p> <p>REMS</p> <p>Remarks / Cooler I.D.</p> |                           |  |
| Project Name<br><i>Hot Spot # 3005</i>  |                    |   | Project No.<br><i>ZZ30.8I</i>       |   |  |                           |  |
| Sample ID / Description<br><i>SW-11</i> |                    | Date<br><i>1/25/18</i>                    | Time<br><i>1805</i>                 | Matrix<br><i>GY</i>                           | No. of Containers by Preservative Type                         |                           |  |
| <i>GW-12</i>                            |                    | <i>1/26/18</i>                            | <i>1050</i>                         |   | <i>3</i>   |                           |  |
| <i>GW-13</i>                            |                    | <i>1/26/18</i>                            | <i>1132</i>                         |   |  |                           |  |
| <i>GW1D50</i>                           |                    | <i>1/24/18</i>                            | <i>1620</i>                         |   |  |                           |  |
| <i>GW1D55</i>                           |                    | <i>1/24/18</i>                            | <i>1650</i>                         |   |  |                           |  |
| <i>GW1D60</i>                           |                    | <i>1/24/18</i>                            | <i>1720</i>                         |   |  |                           |  |
| <i>GWZD50</i>                           |                    | <i>1/26/18</i>                            | <i>1400</i>                         |   |  |                           |  |
| <i>GWZD55</i>                           |                    | <i>1/26/18</i>                            | <i>1430</i>                         |   |  |                           |  |

|  |  |   |                     |   |  |                             |                     |
|--|--|---|---------------------|---|--|-----------------------------|---------------------|
| Turn Around Time Required (Prior lab approval required for expedited IAT)                      |  | Sample Disposal   |                     | Possible Hazard Identification  |  | QC Requirements (Specify)   |                     |
| <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)           |  | <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab |                     | <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown |  |                             |                     |
| 1. Relinquished by <i>[Signature]</i>  |  | Date<br><i>1/26/18</i>  | Time<br><i>1845</i> | 1. Received by  |  | Date                        | Time                |
| 2. Relinquished by   |  | Date  | Time                | 2. Received by  |  | Date                        | Time                |
| 3. Relinquished by   |  | Date  | Time                | 3. Received by  |  | Date                        | Time                |
| 4. Relinquished by   |  | Date  | Time                | 4. Laboratory received by <i>[Signature]</i>  |  | Date<br><i>1/26/18</i>      | Time<br><i>1845</i> |
| Note: All samples are retained for four weeks from receipt unless other arrangements are made. |  |   |                     | LAB USE ONLY<br>Received on Ice (Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No Ice Pack   |  | Receipt Temp. <i>5.4</i> °C |                     |

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Cient Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

# SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.  
Document Number: ME0018C-11

Page 1 of 1  
Effective Date: 01/19/2018

## Sample Receipt Checklist (SRC)

Client: Terry Env. Cooler Inspected by/date: SBE / 1/29/18 Lot #: TA 29001

|  |   |
|--|---|
| Means of receipt: <input type="checkbox"/> SESI <input checked="" type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____                               |   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | 1. Were custody seals present on the cooler?  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 2. If custody seals were present, were they intact and unbroken?  |
| pH Strip ID: _____ Chlorine Strip ID: _____  |   |
| Cooler ID / Original temperature upon receipt / Derived (Corrected) temperature upon receipt:<br><u>154 / 15.4°C</u> / / °C / / °C / / °C  |   |
| Method: <input type="checkbox"/> Temperature Blank <input checked="" type="checkbox"/> Against Bottles IR Gun ID: <u>6</u> IR Gun Correction Factor: <u>0</u> °C   |   |
| Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None   |   |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified?<br>PM was Notified by: phone / email / face-to-face (circle one).               |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 4. Is the commercial courier's packing slip attached to this form?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 5. Were proper custody procedures (relinquished/received) followed?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 6. Were sample IDs listed on the COC?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 7. Were sample IDs listed on all sample containers?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 8. Was collection date & time listed on the COC?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 9. Was collection date & time listed on all sample containers?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 10. Did all container label information (ID, date, time) agree with the COC?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 11. Were tests to be performed listed on the COC?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? _____                                   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 13. Was adequate sample volume available?   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | 14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | 15. Were any samples containers missing/excess (circle one) samples Not listed on COC?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA  | 16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 17. Were all DRO/metals/nutrient samples received at a pH of < 2?   |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 19. Were all applicable NH <sub>3</sub> /TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS? |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | 21. Was the quote number used taken from the container label?   |
| <b>Sample Preservation</b> (Must be completed for any sample(s) incorrectly preserved or with headspace.)  |   |
| Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub> , HCl, NaOH) using SR # _____.                         |   |
| Sample(s) <u>004(1), 010(1), 011(1), 015(1), 017(3)</u> were received with bubbles >6 mm in diameter.  |   |
| Sample(s) _____ were received with TRC > 0.5 mg/L (If #19 is <i>no</i> ) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ) with Shealy ID: _____. |   |
| SR barcode labels applied by: <u>SBE</u> Date: <u>1/29/18</u>  |   |

Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# SHEALY ENVIRONMENTAL SERVICES, INC.

---

## Report of Analysis

**Terry Environmental Services, Inc.**

222 Varnfield Drive  
Suite F  
Summerville, SC 29483  
Attention: Kelly Cone

Project Name: Hot Spot #3005

Project Number: 2230.8I

Lot Number: **TE31043**

Date Completed: 06/11/2018



06/11/2018 3:45 PM

Approved and released by:  
Project Manager: Kelly M. Nance



The electronic signature above is the equivalent of a handwritten signature.  
This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

Shealy Environmental Services, Inc.  
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 [www.shealylab.com](http://www.shealylab.com)

# SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

## Case Narrative Terry Environmental Services, Inc. Lot Number: TE31043

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

### **Volatiles**

The matrix spike/matrix spike duplicate (MS/MSD) associated with sample -019 had tert-butyl formate (TBF) recovered outside of the acceptance limits. The laboratory control sample (LCS) was recovered within the required acceptance limits; therefore, this likely demonstrates a matrix effect.

Sample -002 was diluted 5X due to the sample matrix. The reporting limits have been raised accordingly.

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Sample Summary Terry Environmental Services, Inc. Lot Number: TE31043

| Sample Number | Sample ID        | Matrix  | Date Sampled    | Date Received |
|---------------|------------------|---------|-----------------|---------------|
| 001           | 12719 MW-1       | Aqueous | 05/30/2018 1150 | 05/31/2018    |
| 002           | 12719 MW-1R      | Aqueous | 05/30/2018 1155 | 05/31/2018    |
| 003           | 12719 MW-2R      | Aqueous | 05/30/2018 1751 | 05/31/2018    |
| 004           | 12719 MW-3       | Aqueous | 05/30/2018 1635 | 05/31/2018    |
| 005           | 12719 MW-3R      | Aqueous | 05/30/2018 1640 | 05/31/2018    |
| 006           | 12719 MW-4       | Aqueous | 05/30/2018 1624 | 05/31/2018    |
| 007           | 12719 MW-5       | Aqueous | 05/30/2018 1410 | 05/31/2018    |
| 008           | 12719 MW-6       | Aqueous | 05/30/2018 1810 | 05/31/2018    |
| 009           | 12719 MW-7       | Aqueous | 05/29/2018 1857 | 05/31/2018    |
| 010           | 12719 MW-8R      | Aqueous | 05/29/2018 1820 | 05/31/2018    |
| 011           | 12719 MW-9       | Aqueous | 05/29/2018 1836 | 05/31/2018    |
| 012           | 12719 MW-10      | Aqueous | 05/29/2018 1750 | 05/31/2018    |
| 013           | 12719 MW-10R     | Aqueous | 05/29/2018 1804 | 05/31/2018    |
| 014           | 12719 MW-11      | Aqueous | 05/29/2018 1732 | 05/31/2018    |
| 015           | 12719 MW-12      | Aqueous | 05/29/2018 1728 | 05/31/2018    |
| 016           | 12719 MW-13      | Aqueous | 05/29/2018 1724 | 05/31/2018    |
| 017           | 12719 MW-14      | Aqueous | 05/29/2018 1637 | 05/31/2018    |
| 018           | 12719 MW-15      | Aqueous | 05/29/2018 1650 | 05/31/2018    |
| 019           | 12719 MW-16      | Aqueous | 05/29/2018 1643 | 05/31/2018    |
| 020           | 12719 MW-17      | Aqueous | 05/30/2018 1510 | 05/31/2018    |
| 021           | 12719 MW-18      | Aqueous | 05/30/2018 1421 | 05/31/2018    |
| 022           | 12719 MW-19      | Aqueous | 05/29/2018 1505 | 05/31/2018    |
| 023           | 12719 MW-20      | Aqueous | 05/29/2018 1520 | 05/31/2018    |
| 024           | 12719 MW-21      | Aqueous | 05/29/2018 1535 | 05/31/2018    |
| 025           | 12719 MW-22      | Aqueous | 05/30/2018 1548 | 05/31/2018    |
| 026           | 12719 MW-23      | Aqueous | 05/30/2018 1456 | 05/31/2018    |
| 027           | 12719 MW-24      | Aqueous | 05/30/2018 1240 | 05/31/2018    |
| 028           | 12719 MW-25      | Aqueous | 05/30/2018 0920 | 05/31/2018    |
| 029           | 12719 MW-1D      | Aqueous | 05/30/2018 1824 | 05/31/2018    |
| 030           | 12719 DW-2       | Aqueous | 05/30/2018 1000 | 05/31/2018    |
| 031           | 12719 DW-3       | Aqueous | 05/30/2018 1335 | 05/31/2018    |
| 032           | 12719 RW-1       | Aqueous | 05/30/2018 1742 | 05/31/2018    |
| 033           | 12719 RW-2       | Aqueous | 05/30/2018 1730 | 05/31/2018    |
| 034           | 12719 RW-3       | Aqueous | 05/30/2018 1655 | 05/31/2018    |
| 035           | 12719 SW-1       | Aqueous | 05/30/2018 1845 | 05/31/2018    |
| 036           | 12719 MW-2R Dup. | Aqueous | 05/30/2018 1751 | 05/31/2018    |
| 037           | 12719 RW-3 Dup.  | Aqueous | 05/30/2018 1655 | 05/31/2018    |
| 038           | 12719 FB-1       | Aqueous | 05/29/2018 1300 | 05/31/2018    |
| 039           | 12719 FB-2       | Aqueous | 05/30/2018 0830 | 05/31/2018    |
| 040           | TB-1             | Aqueous | 05/30/2018      | 05/31/2018    |

(40 samples)

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Detection Summary Terry Environmental Services, Inc. Lot Number: TE31043

| Sample | Sample ID   | Matrix  | Parameter                   | Method | Result | Q | Units | Page |
|--------|-------------|---------|-----------------------------|--------|--------|---|-------|------|
| 001    | 12719 MW-1  | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 19     | J | ug/L  | 6    |
| 001    | 12719 MW-1  | Aqueous | Benzene                     | 8260B  | 85     |   | ug/L  | 6    |
| 001    | 12719 MW-1  | Aqueous | Ethylbenzene                | 8260B  | 81     |   | ug/L  | 6    |
| 001    | 12719 MW-1  | Aqueous | Naphthalene                 | 8260B  | 100    |   | ug/L  | 6    |
| 001    | 12719 MW-1  | Aqueous | Toluene                     | 8260B  | 4.4    |   | ug/L  | 6    |
| 001    | 12719 MW-1  | Aqueous | Xylenes (total)             | 8260B  | 240    |   | ug/L  | 6    |
| 002    | 12719 MW-1R | Aqueous | Benzene                     | 8260B  | 93     |   | ug/L  | 7    |
| 002    | 12719 MW-1R | Aqueous | Ethylbenzene                | 8260B  | 89     |   | ug/L  | 7    |
| 002    | 12719 MW-1R | Aqueous | Naphthalene                 | 8260B  | 79     |   | ug/L  | 7    |
| 002    | 12719 MW-1R | Aqueous | Toluene                     | 8260B  | 9.3    |   | ug/L  | 7    |
| 002    | 12719 MW-1R | Aqueous | Xylenes (total)             | 8260B  | 420    |   | ug/L  | 7    |
| 003    | 12719 MW-2R | Aqueous | Benzene                     | 8260B  | 5.4    |   | ug/L  | 8    |
| 003    | 12719 MW-2R | Aqueous | Ethylbenzene                | 8260B  | 12     |   | ug/L  | 8    |
| 003    | 12719 MW-2R | Aqueous | Naphthalene                 | 8260B  | 26     |   | ug/L  | 8    |
| 003    | 12719 MW-2R | Aqueous | Xylenes (total)             | 8260B  | 73     |   | ug/L  | 8    |
| 004    | 12719 MW-3  | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 2600   |   | ug/L  | 9    |
| 004    | 12719 MW-3  | Aqueous | Benzene                     | 8260B  | 3700   |   | ug/L  | 9    |
| 004    | 12719 MW-3  | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 130    |   | ug/L  | 9    |
| 004    | 12719 MW-3  | Aqueous | Ethylbenzene                | 8260B  | 210    |   | ug/L  | 9    |
| 004    | 12719 MW-3  | Aqueous | Methyl tertiary butyl ether | 8260B  | 130    |   | ug/L  | 9    |
| 004    | 12719 MW-3  | Aqueous | Naphthalene                 | 8260B  | 96     | J | ug/L  | 9    |
| 004    | 12719 MW-3  | Aqueous | Xylenes (total)             | 8260B  | 1500   |   | ug/L  | 9    |
| 005    | 12719 MW-3R | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 68     | J | ug/L  | 10   |
| 005    | 12719 MW-3R | Aqueous | Benzene                     | 8260B  | 160    |   | ug/L  | 10   |
| 005    | 12719 MW-3R | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 4.1    | J | ug/L  | 10   |
| 005    | 12719 MW-3R | Aqueous | Naphthalene                 | 8260B  | 2.0    | J | ug/L  | 10   |
| 005    | 12719 MW-3R | Aqueous | Xylenes (total)             | 8260B  | 30     |   | ug/L  | 10   |
| 008    | 12719 MW-6  | Aqueous | Benzene                     | 8260B  | 2.2    |   | ug/L  | 13   |
| 008    | 12719 MW-6  | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 0.42   | J | ug/L  | 13   |
| 008    | 12719 MW-6  | Aqueous | Ethylbenzene                | 8260B  | 0.61   | J | ug/L  | 13   |
| 008    | 12719 MW-6  | Aqueous | Methyl tertiary butyl ether | 8260B  | 1.6    |   | ug/L  | 13   |
| 008    | 12719 MW-6  | Aqueous | Naphthalene                 | 8260B  | 0.54   | J | ug/L  | 13   |
| 008    | 12719 MW-6  | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 18     | J | ug/L  | 13   |
| 008    | 12719 MW-6  | Aqueous | Xylenes (total)             | 8260B  | 3.5    |   | ug/L  | 13   |
| 012    | 12719 MW-10 | Aqueous | Naphthalene                 | 8260B  | 2.0    |   | ug/L  | 17   |
| 019    | 12719 MW-16 | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 1500   |   | ug/L  | 24   |
| 019    | 12719 MW-16 | Aqueous | tert-Amyl methyl ether      | 8260B  | 15     | J | ug/L  | 24   |
| 019    | 12719 MW-16 | Aqueous | Benzene                     | 8260B  | 1700   |   | ug/L  | 24   |
| 019    | 12719 MW-16 | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 22     |   | ug/L  | 24   |
| 019    | 12719 MW-16 | Aqueous | Ethylbenzene                | 8260B  | 67     |   | ug/L  | 24   |
| 019    | 12719 MW-16 | Aqueous | Methyl tertiary butyl ether | 8260B  | 250    |   | ug/L  | 24   |
| 019    | 12719 MW-16 | Aqueous | Naphthalene                 | 8260B  | 45     |   | ug/L  | 24   |
| 019    | 12719 MW-16 | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 160    | J | ug/L  | 24   |
| 019    | 12719 MW-16 | Aqueous | Toluene                     | 8260B  | 300    |   | ug/L  | 24   |
| 019    | 12719 MW-16 | Aqueous | Xylenes (total)             | 8260B  | 930    |   | ug/L  | 24   |

# Detection Summary (Continued)

Lot Number: TE31043

| Sample | Sample ID        | Matrix  | Parameter                   | Method | Result | Q | Units | Page |
|--------|------------------|---------|-----------------------------|--------|--------|---|-------|------|
| 023    | 12719 MW-20      | Aqueous | Methyl tertiary butyl ether | 8260B  | 1.2    |   | ug/L  | 28   |
| 024    | 12719 MW-21      | Aqueous | Methyl tertiary butyl ether | 8260B  | 4.3    |   | ug/L  | 29   |
| 025    | 12719 MW-22      | Aqueous | Naphthalene                 | 8260B  | 15     |   | ug/L  | 30   |
| 025    | 12719 MW-22      | Aqueous | Xylenes (total)             | 8260B  | 6.6    |   | ug/L  | 30   |
| 026    | 12719 MW-23      | Aqueous | Naphthalene                 | 8260B  | 12     |   | ug/L  | 31   |
| 026    | 12719 MW-23      | Aqueous | Xylenes (total)             | 8260B  | 19     |   | ug/L  | 31   |
| 028    | 12719 MW-25      | Aqueous | tert-Amyl methyl ether      | 8260B  | 0.51   | J | ug/L  | 33   |
| 028    | 12719 MW-25      | Aqueous | Methyl tertiary butyl ether | 8260B  | 15     |   | ug/L  | 33   |
| 031    | 12719 DW-3       | Aqueous | Toluene                     | 8260B  | 0.81   | J | ug/L  | 36   |
| 032    | 12719 RW-1       | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 12     | J | ug/L  | 37   |
| 032    | 12719 RW-1       | Aqueous | Benzene                     | 8260B  | 67     |   | ug/L  | 37   |
| 032    | 12719 RW-1       | Aqueous | Ethylbenzene                | 8260B  | 81     |   | ug/L  | 37   |
| 032    | 12719 RW-1       | Aqueous | Naphthalene                 | 8260B  | 140    |   | ug/L  | 37   |
| 032    | 12719 RW-1       | Aqueous | Toluene                     | 8260B  | 14     |   | ug/L  | 37   |
| 032    | 12719 RW-1       | Aqueous | Xylenes (total)             | 8260B  | 320    |   | ug/L  | 37   |
| 033    | 12719 RW-2       | Aqueous | Benzene                     | 8260B  | 21     |   | ug/L  | 38   |
| 033    | 12719 RW-2       | Aqueous | Ethylbenzene                | 8260B  | 35     |   | ug/L  | 38   |
| 033    | 12719 RW-2       | Aqueous | Naphthalene                 | 8260B  | 82     |   | ug/L  | 38   |
| 033    | 12719 RW-2       | Aqueous | Toluene                     | 8260B  | 0.58   | J | ug/L  | 38   |
| 033    | 12719 RW-2       | Aqueous | Xylenes (total)             | 8260B  | 140    |   | ug/L  | 38   |
| 034    | 12719 RW-3       | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 1400   |   | ug/L  | 39   |
| 034    | 12719 RW-3       | Aqueous | Benzene                     | 8260B  | 1800   |   | ug/L  | 39   |
| 034    | 12719 RW-3       | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 49     | J | ug/L  | 39   |
| 034    | 12719 RW-3       | Aqueous | Ethylbenzene                | 8260B  | 120    |   | ug/L  | 39   |
| 034    | 12719 RW-3       | Aqueous | Methyl tertiary butyl ether | 8260B  | 280    |   | ug/L  | 39   |
| 034    | 12719 RW-3       | Aqueous | Naphthalene                 | 8260B  | 29     | J | ug/L  | 39   |
| 034    | 12719 RW-3       | Aqueous | Xylenes (total)             | 8260B  | 360    |   | ug/L  | 39   |
| 035    | 12719 SW-1       | Aqueous | Methyl tertiary butyl ether | 8260B  | 1.4    |   | ug/L  | 40   |
| 035    | 12719 SW-1       | Aqueous | Naphthalene                 | 8260B  | 2.0    |   | ug/L  | 40   |
| 036    | 12719 MW-2R Dup. | Aqueous | Benzene                     | 8260B  | 5.1    |   | ug/L  | 41   |
| 036    | 12719 MW-2R Dup. | Aqueous | Ethylbenzene                | 8260B  | 11     |   | ug/L  | 41   |
| 036    | 12719 MW-2R Dup. | Aqueous | Naphthalene                 | 8260B  | 24     |   | ug/L  | 41   |
| 036    | 12719 MW-2R Dup. | Aqueous | Xylenes (total)             | 8260B  | 69     |   | ug/L  | 41   |
| 037    | 12719 RW-3 Dup.  | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 1400   |   | ug/L  | 42   |
| 037    | 12719 RW-3 Dup.  | Aqueous | Benzene                     | 8260B  | 1700   |   | ug/L  | 42   |
| 037    | 12719 RW-3 Dup.  | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 51     |   | ug/L  | 42   |
| 037    | 12719 RW-3 Dup.  | Aqueous | Ethylbenzene                | 8260B  | 120    |   | ug/L  | 42   |
| 037    | 12719 RW-3 Dup.  | Aqueous | Methyl tertiary butyl ether | 8260B  | 300    |   | ug/L  | 42   |
| 037    | 12719 RW-3 Dup.  | Aqueous | Xylenes (total)             | 8260B  | 320    |   | ug/L  | 42   |

(84 detections)

Description: 12719 MW-1

Matrix: Aqueous

Date Sampled: 05/30/2018 1150

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method   | Dilution             | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|---------------------|----------------------|-----------------|---------|-----------|-------|-----|--|
| 2                                  | 5030B       | 8260B               | 1                    | 06/09/2018 2130 | BWS     |           | 74383 |     |  |
| Parameter                          | CAS Number  | Analytical Method   | Result               | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B               | 19                   | J               | 20      | 8.0       | ug/L  | 2   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B               | ND                   |                 | 10      | 0.42      | ug/L  | 2   |  |
| Benzene                            | 71-43-2     | 8260B               | 85                   |                 | 1.0     | 0.40      | ug/L  | 2   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B               | ND                   |                 | 5.0     | 2.0       | ug/L  | 2   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B               | ND                   |                 | 1.0     | 0.40      | ug/L  | 2   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B               | ND                   |                 | 1.0     | 0.40      | ug/L  | 2   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B               | ND                   |                 | 20      | 8.0       | ug/L  | 2   |  |
| Ethanol                            | 64-17-5     | 8260B               | ND                   |                 | 100     | 40        | ug/L  | 2   |  |
| Ethylbenzene                       | 100-41-4    | 8260B               | 81                   |                 | 1.0     | 0.40      | ug/L  | 2   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B               | ND                   |                 | 1.0     | 0.40      | ug/L  | 2   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B               | ND                   |                 | 1.0     | 0.40      | ug/L  | 2   |  |
| Naphthalene                        | 91-20-3     | 8260B               | 100                  |                 | 1.0     | 0.40      | ug/L  | 2   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B               | ND                   |                 | 20      | 8.0       | ug/L  | 2   |  |
| Toluene                            | 108-88-3    | 8260B               | 4.4                  |                 | 1.0     | 0.40      | ug/L  | 2   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B               | 240                  |                 | 1.0     | 0.40      | ug/L  | 2   |  |
| Surrogate                          | Q           | Run 2<br>% Recovery | Acceptance<br>Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 95                  | 70-130               |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 89                  | 70-130               |                 |         |           |       |     |  |
| Toluene-d8                         |             | 99                  | 70-130               |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: 12719 MW-1R

Matrix: Aqueous

Date Sampled: 05/30/2018 1155

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 5                 | 06/08/2018 1615 | MNS     |           | 74282 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 50      | 2.1       | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | 93                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 25      | 10        | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 500     | 200       | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | 89                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | 79                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | 9.3               |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | 420               |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 120               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 109               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 125               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-2R

Matrix: Aqueous

Date Sampled: 05/30/2018 1751

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/08/2018 1637 | MNS     |           | 74282 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | 5.4    |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | 12     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | 26     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | 73     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 |   | 117                 | 70-130               |
| Bromofluorobenzene    |   | 105                 | 70-130               |
| Toluene-d8            |   | 124                 | 70-130               |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-3

Matrix: Aqueous

Date Sampled: 05/30/2018 1635

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 100               | 06/08/2018 1659 | MNS     |           | 74282 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | 2600              |                 | 2000    | 800       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 1000    | 42        | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | 3700              |                 | 100     | 40        | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 500     | 200       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | 130               |                 | 100     | 40        | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 2000    | 800       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 10000   | 4000      | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | 210               |                 | 100     | 40        | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | 130               |                 | 100     | 40        | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | 96                | J               | 100     | 40        | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 2000    | 800       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | 1500              |                 | 100     | 40        | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 115               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 107               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 128               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-3R

Matrix: Aqueous

Date Sampled: 05/30/2018 1640

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method   | Dilution             | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|---------------------|----------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B               | 5                    | 06/08/2018 1721 | MNS     |           | 74282 |     |  |
| Parameter                          | CAS Number  | Analytical Method   | Result               | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B               | 68                   | J               | 100     | 40        | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B               | ND                   |                 | 50      | 2.1       | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B               | 160                  |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B               | ND                   |                 | 25      | 10        | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B               | ND                   |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B               | 4.1                  | J               | 5.0     | 2.0       | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B               | ND                   |                 | 100     | 40        | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B               | ND                   |                 | 500     | 200       | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B               | ND                   |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B               | ND                   |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B               | ND                   |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B               | 2.0                  | J               | 5.0     | 2.0       | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B               | ND                   |                 | 100     | 40        | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B               | ND                   |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B               | 30                   |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1<br>% Recovery | Acceptance<br>Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 121                 | 70-130               |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 107                 | 70-130               |                 |         |           |       |     |  |
| Toluene-d8                         |             | 130                 | 70-130               |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-4

Matrix: Aqueous

Date Sampled: 05/30/2018 1624

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 06/08/2018 1744 | MNS     |           | 74282 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 115               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 99                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 119               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-5

Matrix: Aqueous

Date Sampled: 05/30/2018 1410

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/08/2018 1954 | BWS     |           | 74345 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 |   | 92                  | 70-130               |
| Bromofluorobenzene    |   | 98                  | 70-130               |
| Toluene-d8            |   | 98                  | 70-130               |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-6

Matrix: Aqueous

Date Sampled: 05/30/2018 1810

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date | Analyst  | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|---------------|----------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 06/08/2018    | 2016 BWS |           | 74345 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q             | LOQ      | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |               | 20       | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |               | 10       | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | 2.2               |               | 1.0      | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |               | 5.0      | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |               | 1.0      | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | 0.42              | J             | 1.0      | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |               | 20       | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |               | 100      | 40        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | 0.61              | J             | 1.0      | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |               | 1.0      | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | 1.6               |               | 1.0      | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | 0.54              | J             | 1.0      | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | 18                | J             | 20       | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |               | 1.0      | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | 3.5               |               | 1.0      | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |               |          |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 96                | 70-130            |               |          |           |       |     |  |
| Bromofluorobenzene                 |             | 103               | 70-130            |               |          |           |       |     |  |
| Toluene-d8                         |             | 101               | 70-130            |               |          |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-7

Matrix: Aqueous

Date Sampled: 05/29/2018 1857

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/08/2018 2037 | BWS     |           | 74345 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 |   | 93                  | 70-130               |
| Bromofluorobenzene    |   | 98                  | 70-130               |
| Toluene-d8            |   | 98                  | 70-130               |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: 12719 MW-8R

Matrix: Aqueous

Date Sampled: 05/29/2018 1820

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/08/2018 2058 | BWS     |           | 74345 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 |   | 95                  | 70-130               |
| Bromofluorobenzene    |   | 100                 | 70-130               |
| Toluene-d8            |   | 100                 | 70-130               |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-9

Matrix: Aqueous

Date Sampled: 05/29/2018 1836

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/08/2018 2120 | BWS     |           | 74345 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 91               | 70-130            |
| Bromofluorobenzene    |   | 98               | 70-130            |
| Toluene-d8            |   | 96               | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-10

Matrix: Aqueous

Date Sampled: 05/29/2018 1750

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 2   | 5030B       | 8260B             | 1        | 06/09/2018 2151 | BWS     |           | 74383 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 2   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 2   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 2   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 2   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 2   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| Naphthalene                        | 91-20-3    | 8260B             | 2.0    |   | 1.0 | 0.40 | ug/L  | 2   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 2   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |

| Surrogate             | Q | Run 2<br>% Recovery | Acceptance<br>Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 |   | 97                  | 70-130               |
| Bromofluorobenzene    |   | 93                  | 70-130               |
| Toluene-d8            |   | 103                 | 70-130               |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-10R

Matrix: Aqueous

Date Sampled: 05/29/2018 1804

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 2   | 5030B       | 8260B             | 1        | 06/09/2018 2212 | BWS     |           | 74383 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 2   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 2   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 2   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 2   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 2   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 2   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |

| Surrogate             | Q | Run 2<br>% Recovery | Acceptance<br>Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 |   | 96                  | 70-130               |
| Bromofluorobenzene    |   | 94                  | 70-130               |
| Toluene-d8            |   | 101                 | 70-130               |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-11

Matrix: Aqueous

Date Sampled: 05/29/2018 1732

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/08/2018 2142 | BWS     |           | 74345 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 93               | 70-130            |
| Bromofluorobenzene    |   | 99               | 70-130            |
| Toluene-d8            |   | 98               | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-12

Matrix: Aqueous

Date Sampled: 05/29/2018 1728

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/08/2018 2203 | BWS     |           | 74345 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 95               | 70-130            |
| Bromofluorobenzene    |   | 101              | 70-130            |
| Toluene-d8            |   | 100              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-13

Matrix: Aqueous

Date Sampled: 05/29/2018 1724

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/08/2018 2225 | BWS     |           | 74345 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 |   | 96                  | 70-130               |
| Bromofluorobenzene    |   | 99                  | 70-130               |
| Toluene-d8            |   | 99                  | 70-130               |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-14

Matrix: Aqueous

Date Sampled: 05/29/2018 1637

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/08/2018 2246 | BWS     |           | 74345 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 |   | 98                  | 70-130               |
| Bromofluorobenzene    |   | 101                 | 70-130               |
| Toluene-d8            |   | 101                 | 70-130               |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: 12719 MW-15

Matrix: Aqueous

Date Sampled: 05/29/2018 1650

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/08/2018 2308 | BWS     |           | 74345 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 |   | 96                  | 70-130               |
| Bromofluorobenzene    |   | 100                 | 70-130               |
| Toluene-d8            |   | 98                  | 70-130               |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-16

Matrix: Aqueous

Date Sampled: 05/29/2018 1643

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 20                | 06/09/2018 0056 | BWS     |           | 74345 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | 1500              |                 | 400     | 160       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | 15                | J               | 200     | 8.4       | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | 1700              |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | 22                |                 | 20      | 8.0       | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 400     | 160       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 2000    | 800       | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | 67                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | 250               |                 | 20      | 8.0       | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | 45                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | 160               | J               | 400     | 160       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | 300               |                 | 20      | 8.0       | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | 930               |                 | 20      | 8.0       | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 98                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 98                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 98                | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-17

Matrix: Aqueous

Date Sampled: 05/30/2018 1510

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/08/2018 2329 | BWS     |           | 74345 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 |   | 96                  | 70-130               |
| Bromofluorobenzene    |   | 100                 | 70-130               |
| Toluene-d8            |   | 98                  | 70-130               |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/08/2018 2240 | BWS     |           | 74359 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 |   | 108                 | 70-130               |
| Bromofluorobenzene    |   | 95                  | 70-130               |
| Toluene-d8            |   | 109                 | 70-130               |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-19

Matrix: Aqueous

Date Sampled: 05/29/2018 1505

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/08/2018 2302 | BWS     |           | 74359 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 108              | 70-130            |
| Bromofluorobenzene    |   | 96               | 70-130            |
| Toluene-d8            |   | 112              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-20

Matrix: Aqueous

Date Sampled: 05/29/2018 1520

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/08/2018 2324 | BWS     |           | 74359 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | 1.2    |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 107              | 70-130            |
| Bromofluorobenzene    |   | 94               | 70-130            |
| Toluene-d8            |   | 111              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-21

Matrix: Aqueous

Date Sampled: 05/29/2018 1535

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/08/2018 2345 | BWS     |           | 74359 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | 4.3    |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 |   | 108                 | 70-130               |
| Bromofluorobenzene    |   | 91                  | 70-130               |
| Toluene-d8            |   | 109                 | 70-130               |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-22

Matrix: Aqueous

Date Sampled: 05/30/2018 1548

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 06/09/2018 0006 | BWS     |           | 74359 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | 15                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | 6.6               |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 107               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 97                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 107               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: 12719 MW-23

Matrix: Aqueous

Date Sampled: 05/30/2018 1456

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 06/09/2018 0027 | BWS     |           | 74359 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | 12                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | 19                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 108               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 101               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 108               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-24

Matrix: Aqueous

Date Sampled: 05/30/2018 1240

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/09/2018 0048 | BWS     |           | 74359 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 110              | 70-130            |
| Bromofluorobenzene    |   | 96               | 70-130            |
| Toluene-d8            |   | 110              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-25

Matrix: Aqueous

Date Sampled: 05/30/2018 0920

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 06/09/2018 0109 | BWS     |           | 74359 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | 0.51              | J               | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | 15                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 105               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 92                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 108               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-1D

Matrix: Aqueous

Date Sampled: 05/30/2018 1824

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/09/2018 0130 | BWS     |           | 74359 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 106              | 70-130            |
| Bromofluorobenzene    |   | 92               | 70-130            |
| Toluene-d8            |   | 108              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 DW-2

Matrix: Aqueous

Date Sampled: 05/30/2018 1000

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/09/2018 0151 | BWS     |           | 74359 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 107              | 70-130            |
| Bromofluorobenzene    |   | 93               | 70-130            |
| Toluene-d8            |   | 109              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 DW-3

Matrix: Aqueous

Date Sampled: 05/30/2018 1335

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 06/09/2018 0213 | BWS     |           | 74359 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | 0.81              | J               | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 109               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 89                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 107               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 RW-1

Matrix: Aqueous

Date Sampled: 05/30/2018 1742

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 06/09/2018 0234 | BWS     |           | 74359 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | 12                | J               | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | 67                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | 81                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | 140               |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | 14                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | 320               |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 103               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 93                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 107               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 RW-2

Matrix: Aqueous

Date Sampled: 05/30/2018 1730

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 06/09/2018 0255 | BWS     |           | 74359 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | 21                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | 35                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | 82                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | 0.58              | J               | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | 140               |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 103               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 97                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 113               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: 12719 RW-3

Matrix: Aqueous

Date Sampled: 05/30/2018 1655

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 50                | 06/09/2018 0359 | BWS     |           | 74359 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | 1400              |                 | 1000    | 400       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 500     | 21        | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | 1800              |                 | 50      | 20        | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 250     | 100       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 50      | 20        | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | 49                | J               | 50      | 20        | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 1000    | 400       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 5000    | 2000      | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | 120               |                 | 50      | 20        | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 50      | 20        | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | 280               |                 | 50      | 20        | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | 29                | J               | 50      | 20        | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 1000    | 400       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 50      | 20        | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | 360               |                 | 50      | 20        | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 102               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 99                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 107               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 SW-1

Matrix: Aqueous

Date Sampled: 05/30/2018 1845

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/09/2018 0317 | BWS     |           | 74359 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | 1.4    |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | 2.0    |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 |   | 102                 | 70-130               |
| Bromofluorobenzene    |   | 94                  | 70-130               |
| Toluene-d8            |   | 106                 | 70-130               |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-2R Dup.

Matrix: Aqueous

Date Sampled: 05/30/2018 1751

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 06/09/2018 0338 | BWS     |           | 74359 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | 5.1               |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 40        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | 11                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | 24                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | 69                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 106               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 100               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 108               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 RW-3 Dup.

Matrix: Aqueous

Date Sampled: 05/30/2018 1655

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 50                | 06/09/2018 0420 | BWS     |           | 74359 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | 1400              |                 | 1000    | 400       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 500     | 21        | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | 1700              |                 | 50      | 20        | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 250     | 100       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 50      | 20        | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | 51                |                 | 50      | 20        | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 1000    | 400       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 5000    | 2000      | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | 120               |                 | 50      | 20        | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 50      | 20        | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | 300               |                 | 50      | 20        | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 50      | 20        | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 1000    | 400       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 50      | 20        | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | 320               |                 | 50      | 20        | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 103               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 95                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 109               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 FB-1

Matrix: Aqueous

Date Sampled: 05/29/2018 1300

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/08/2018 2158 | BWS     |           | 74359 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 |   | 106                 | 70-130               |
| Bromofluorobenzene    |   | 96                  | 70-130               |
| Toluene-d8            |   | 106                 | 70-130               |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 FB-2

Matrix: Aqueous

Date Sampled: 05/30/2018 0830

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 06/08/2018 2219 | BWS     |           | 74359 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 40   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 |   | 109                 | 70-130               |
| Bromofluorobenzene    |   | 98                  | 70-130               |
| Toluene-d8            |   | 108                 | 70-130               |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: TB-1

Matrix: Aqueous

Date Sampled: 05/30/2018

Date Received: 05/31/2018

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date | Analyst  | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|---------------|----------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 06/09/2018    | 2006 BWS |           | 74383 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q             | LOQ      | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |               | 20       | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |               | 10       | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |               | 1.0      | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |               | 5.0      | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |               | 1.0      | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |               | 1.0      | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |               | 20       | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |               | 100      | 40        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |               | 1.0      | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |               | 1.0      | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |               | 1.0      | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |               | 1.0      | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |               | 20       | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |               | 1.0      | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |               | 1.0      | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |               |          |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 98                | 70-130            |               |          |           |       |     |  |
| Bromofluorobenzene                 |             | 88                | 70-130            |               |          |           |       |     |  |
| Toluene-d8                         |             | 101               | 70-130            |               |          |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## QC Summary



## Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ74282-001

Matrix: Aqueous

Batch: 74282

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |       | 1                | 20  | 8.0  | ug/L  | 06/08/2018 1027 |
| tert-Amyl methyl ether (TAME)      | ND     |       | 1                | 10  | 0.42 | ug/L  | 06/08/2018 1027 |
| Benzene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 1027 |
| tert-Butyl formate (TBF)           | ND     |       | 1                | 5.0 | 2.0  | ug/L  | 06/08/2018 1027 |
| 1,2-Dichloroethane                 | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 1027 |
| Diisopropyl ether (IPE)            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 1027 |
| 3,3-Dimethyl-1-butanol             | ND     |       | 1                | 20  | 8.0  | ug/L  | 06/08/2018 1027 |
| Ethanol                            | ND     |       | 1                | 100 | 40   | ug/L  | 06/08/2018 1027 |
| Ethylbenzene                       | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 1027 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 1027 |
| Methyl tertiary butyl ether (MTBE) | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 1027 |
| Naphthalene                        | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 1027 |
| tert-butyl alcohol (TBA)           | ND     |       | 1                | 20  | 8.0  | ug/L  | 06/08/2018 1027 |
| Toluene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 1027 |
| Xylenes (total)                    | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 1027 |
| Surrogate                          | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4              |        | 125   | 70-130           |     |      |       |                 |
| Bromofluorobenzene                 |        | 107   | 70-130           |     |      |       |                 |
| Toluene-d8                         |        | 123   | 70-130           |     |      |       |                 |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ74282-002

Matrix: Aqueous

Batch: 74282

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 1000          |   | 1   | 103   | 70-130      | 06/08/2018 0926 |
| tert-Amyl methyl ether (TAME)      | 50                  | 55            |   | 1   | 111   | 70-130      | 06/08/2018 0926 |
| Benzene                            | 50                  | 54            |   | 1   | 107   | 70-130      | 06/08/2018 0926 |
| tert-Butyl formate (TBF)           | 250                 | 280           |   | 1   | 112   | 70-130      | 06/08/2018 0926 |
| 1,2-Dichloroethane                 | 50                  | 53            |   | 1   | 105   | 70-130      | 06/08/2018 0926 |
| Diisopropyl ether (IPE)            | 50                  | 56            |   | 1   | 112   | 70-130      | 06/08/2018 0926 |
| 3,3-Dimethyl-1-butanol             | 1000                | 950           |   | 1   | 95    | 70-130      | 06/08/2018 0926 |
| Ethanol                            | 5000                | 5400          |   | 1   | 108   | 70-130      | 06/08/2018 0926 |
| Ethylbenzene                       | 50                  | 50            |   | 1   | 101   | 70-130      | 06/08/2018 0926 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 56            |   | 1   | 113   | 70-130      | 06/08/2018 0926 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 56            |   | 1   | 112   | 70-130      | 06/08/2018 0926 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ74282-002

Matrix: Aqueous

Batch: 74282

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|--------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| Naphthalene              | 50                  | 51            |                  | 1   | 103   | 70-130      | 06/08/2018 0926 |
| tert-butyl alcohol (TBA) | 1000                | 1000          |                  | 1   | 101   | 70-130      | 06/08/2018 0926 |
| Toluene                  | 50                  | 52            |                  | 1   | 104   | 70-130      | 06/08/2018 0926 |
| Xylenes (total)          | 100                 | 99            |                  | 1   | 99    | 70-130      | 06/08/2018 0926 |
| Surrogate                | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4    |                     | 122           | 70-130           |     |       |             |                 |
| Bromofluorobenzene       |                     | 108           | 70-130           |     |       |             |                 |
| Toluene-d8               |                     | 125           | 70-130           |     |       |             |                 |

## Volatile Organic Compounds by GC/MS - MS

Sample ID: TE31043-004MS

Matrix: Aqueous

Batch: 74282

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|------------------|---|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 2600                 | 100000              | 100000           |   | 100 | 101   | 70-130      | 06/08/2018 1826 |
| tert-Amyl methyl ether (TAME)      | ND                   | 5000                | 5800             |   | 100 | 116   | 70-130      | 06/08/2018 1826 |
| Benzene                            | 3700                 | 5000                | 9500             |   | 100 | 116   | 70-130      | 06/08/2018 1826 |
| tert-Butyl formate (TBF)           | ND                   | 25000               | 24000            |   | 100 | 97    | 70-130      | 06/08/2018 1826 |
| 1,2-Dichloroethane                 | ND                   | 5000                | 5700             |   | 100 | 113   | 70-130      | 06/08/2018 1826 |
| Diisopropyl ether (IPE)            | 130                  | 5000                | 6100             |   | 100 | 119   | 70-130      | 06/08/2018 1826 |
| 3,3-Dimethyl-1-butanol             | ND                   | 100000              | 93000            |   | 100 | 93    | 70-130      | 06/08/2018 1826 |
| Ethanol                            | ND                   | 500000              | 460000           |   | 100 | 93    | 70-130      | 06/08/2018 1826 |
| Ethylbenzene                       | 210                  | 5000                | 5900             |   | 100 | 113   | 70-130      | 06/08/2018 1826 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 5000                | 5700             |   | 100 | 115   | 70-130      | 06/08/2018 1826 |
| Methyl tertiary butyl ether (MTBE) | 130                  | 5000                | 5500             |   | 100 | 108   | 70-130      | 06/08/2018 1826 |
| Naphthalene                        | 96                   | 5000                | 5500             |   | 100 | 107   | 70-130      | 06/08/2018 1826 |
| tert-butyl alcohol (TBA)           | ND                   | 100000              | 100000           |   | 100 | 101   | 70-130      | 06/08/2018 1826 |
| Toluene                            | ND                   | 5000                | 5900             |   | 100 | 118   | 70-130      | 06/08/2018 1826 |
| Xylenes (total)                    | 1500                 | 10000               | 13000            |   | 100 | 110   | 70-130      | 06/08/2018 1826 |
| Surrogate                          | Q                    | % Rec               | Acceptance Limit |   |     |       |             |                 |
| 1,2-Dichloroethane-d4              |                      | 120                 | 70-130           |   |     |       |             |                 |
| Bromofluorobenzene                 |                      | 107                 | 70-130           |   |     |       |             |                 |
| Toluene-d8                         |                      | 125                 | 70-130           |   |     |       |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MSD

Sample ID: TE31043-004MD

Matrix: Aqueous

Batch: 74282

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q   | Dil | % Rec | % RPD  | % Rec Limit | % RPD Limit     | Analysis Date |
|------------------------------------|----------------------|---------------------|------------------|-----|-----|-------|--------|-------------|-----------------|---------------|
| tert-Amyl alcohol (TAA)            | 2600                 | 100000              | 100000           | 100 | 98  | 3.1   | 70-130 | 20          | 06/08/2018 1848 |               |
| tert-Amyl methyl ether (TAME)      | ND                   | 5000                | 5400             | 100 | 107 | 8.3   | 70-130 | 20          | 06/08/2018 1848 |               |
| Benzene                            | 3700                 | 5000                | 9000             | 100 | 106 | 5.3   | 70-130 | 20          | 06/08/2018 1848 |               |
| tert-Butyl formate (TBF)           | ND                   | 25000               | 23000            | 100 | 91  | 6.5   | 70-130 | 20          | 06/08/2018 1848 |               |
| 1,2-Dichloroethane                 | ND                   | 5000                | 5200             | 100 | 104 | 8.6   | 70-130 | 20          | 06/08/2018 1848 |               |
| Diisopropyl ether (IPE)            | 130                  | 5000                | 5800             | 100 | 112 | 5.9   | 70-130 | 20          | 06/08/2018 1848 |               |
| 3,3-Dimethyl-1-butanol             | ND                   | 100000              | 92000            | 100 | 92  | 1.3   | 70-130 | 20          | 06/08/2018 1848 |               |
| Ethanol                            | ND                   | 500000              | 450000           | 100 | 91  | 2.6   | 70-130 | 20          | 06/08/2018 1848 |               |
| Ethylbenzene                       | 210                  | 5000                | 5500             | 100 | 106 | 6.6   | 70-130 | 20          | 06/08/2018 1848 |               |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 5000                | 5400             | 100 | 107 | 6.7   | 70-130 | 20          | 06/08/2018 1848 |               |
| Methyl tertiary butyl ether (MTBE) | 130                  | 5000                | 5200             | 100 | 102 | 5.8   | 70-130 | 20          | 06/08/2018 1848 |               |
| Naphthalene                        | 96                   | 5000                | 4900             | 100 | 95  | 12    | 70-130 | 20          | 06/08/2018 1848 |               |
| tert-butyl alcohol (TBA)           | ND                   | 100000              | 98000            | 100 | 97  | 3.4   | 70-130 | 20          | 06/08/2018 1848 |               |
| Toluene                            | ND                   | 5000                | 5400             | 100 | 108 | 8.4   | 70-130 | 20          | 06/08/2018 1848 |               |
| Xylenes (total)                    | 1500                 | 10000               | 12000            | 100 | 102 | 6.3   | 70-130 | 20          | 06/08/2018 1848 |               |
| Surrogate                          | Q                    | % Rec               | Acceptance Limit |     |     |       |        |             |                 |               |
| 1,2-Dichloroethane-d4              |                      | 121                 | 70-130           |     |     |       |        |             |                 |               |
| Bromofluorobenzene                 |                      | 114                 | 70-130           |     |     |       |        |             |                 |               |
| Toluene-d8                         |                      | 126                 | 70-130           |     |     |       |        |             |                 |               |

## Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ74345-001

Matrix: Aqueous

Batch: 74345

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Result | Q | Dil | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|---|-----|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |   | 1   | 20  | 8.0  | ug/L  | 06/08/2018 1725 |
| tert-Amyl methyl ether (TAME)      | ND     |   | 1   | 10  | 0.42 | ug/L  | 06/08/2018 1725 |
| Benzene                            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 06/08/2018 1725 |
| tert-Butyl formate (TBF)           | ND     |   | 1   | 5.0 | 2.0  | ug/L  | 06/08/2018 1725 |
| 1,2-Dichloroethane                 | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 06/08/2018 1725 |
| Diisopropyl ether (IPE)            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 06/08/2018 1725 |
| 3,3-Dimethyl-1-butanol             | ND     |   | 1   | 20  | 8.0  | ug/L  | 06/08/2018 1725 |
| Ethanol                            | ND     |   | 1   | 100 | 40   | ug/L  | 06/08/2018 1725 |
| Ethylbenzene                       | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 06/08/2018 1725 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 06/08/2018 1725 |
| Methyl tertiary butyl ether (MTBE) | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 06/08/2018 1725 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ74345-001

Matrix: Aqueous

Batch: 74345

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|--------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| Naphthalene              | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 1725 |
| tert-butyl alcohol (TBA) | ND     |       | 1                | 20  | 8.0  | ug/L  | 06/08/2018 1725 |
| Toluene                  | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 1725 |
| Xylenes (total)          | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 1725 |
| Surrogate                | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4    |        | 99    | 70-130           |     |      |       |                 |
| Bromofluorobenzene       |        | 102   | 70-130           |     |      |       |                 |
| Toluene-d8               |        | 102   | 70-130           |     |      |       |                 |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ74345-002

Matrix: Aqueous

Batch: 74345

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 960           |                  | 1   | 96    | 70-130      | 06/08/2018 1642 |
| tert-Amyl methyl ether (TAME)      | 50                  | 51            |                  | 1   | 102   | 70-130      | 06/08/2018 1642 |
| Benzene                            | 50                  | 49            |                  | 1   | 99    | 70-130      | 06/08/2018 1642 |
| tert-Butyl formate (TBF)           | 250                 | 260           |                  | 1   | 105   | 70-130      | 06/08/2018 1642 |
| 1,2-Dichloroethane                 | 50                  | 49            |                  | 1   | 98    | 70-130      | 06/08/2018 1642 |
| Diisopropyl ether (IPE)            | 50                  | 50            |                  | 1   | 100   | 70-130      | 06/08/2018 1642 |
| 3,3-Dimethyl-1-butanol             | 1000                | 990           |                  | 1   | 99    | 70-130      | 06/08/2018 1642 |
| Ethanol                            | 5000                | 4500          |                  | 1   | 89    | 70-130      | 06/08/2018 1642 |
| Ethylbenzene                       | 50                  | 51            |                  | 1   | 102   | 70-130      | 06/08/2018 1642 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 49            |                  | 1   | 98    | 70-130      | 06/08/2018 1642 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 48            |                  | 1   | 96    | 70-130      | 06/08/2018 1642 |
| Naphthalene                        | 50                  | 54            |                  | 1   | 109   | 70-130      | 06/08/2018 1642 |
| tert-butyl alcohol (TBA)           | 1000                | 920           |                  | 1   | 92    | 70-130      | 06/08/2018 1642 |
| Toluene                            | 50                  | 51            |                  | 1   | 101   | 70-130      | 06/08/2018 1642 |
| Xylenes (total)                    | 100                 | 99            |                  | 1   | 99    | 70-130      | 06/08/2018 1642 |
| Surrogate                          | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4              |                     | 97            | 70-130           |     |       |             |                 |
| Bromofluorobenzene                 |                     | 102           | 70-130           |     |       |             |                 |
| Toluene-d8                         |                     | 101           | 70-130           |     |       |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MS

Sample ID: TE31043-019MS

Matrix: Aqueous

Batch: 74345

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|------------------|---|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1500                 | 20000               | 21000            |   | 20  | 100   | 70-130      | 06/09/2018 0117 |
| tert-Amyl methyl ether (TAME)      | 15                   | 1000                | 1100             |   | 20  | 110   | 70-130      | 06/09/2018 0117 |
| Benzene                            | 1700                 | 1000                | 2700             |   | 20  | 107   | 70-130      | 06/09/2018 0117 |
| tert-Butyl formate (TBF)           | ND                   | 5000                | 2800             | N | 20  | 55    | 70-130      | 06/09/2018 0117 |
| 1,2-Dichloroethane                 | ND                   | 1000                | 1100             |   | 20  | 109   | 70-130      | 06/09/2018 0117 |
| Diisopropyl ether (IPE)            | 22                   | 1000                | 1100             |   | 20  | 105   | 70-130      | 06/09/2018 0117 |
| 3,3-Dimethyl-1-butanol             | ND                   | 20000               | 21000            |   | 20  | 103   | 70-130      | 06/09/2018 0117 |
| Ethanol                            | ND                   | 100000              | 110000           |   | 20  | 108   | 70-130      | 06/09/2018 0117 |
| Ethylbenzene                       | 67                   | 1000                | 1100             |   | 20  | 105   | 70-130      | 06/09/2018 0117 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 1000                | 1100             |   | 20  | 109   | 70-130      | 06/09/2018 0117 |
| Methyl tertiary butyl ether (MTBE) | 250                  | 1000                | 1300             |   | 20  | 108   | 70-130      | 06/09/2018 0117 |
| Naphthalene                        | 45                   | 1000                | 1100             |   | 20  | 108   | 70-130      | 06/09/2018 0117 |
| tert-butyl alcohol (TBA)           | 160                  | 20000               | 21000            |   | 20  | 104   | 70-130      | 06/09/2018 0117 |
| Toluene                            | 300                  | 1000                | 1400             |   | 20  | 106   | 70-130      | 06/09/2018 0117 |
| Xylenes (total)                    | 930                  | 2000                | 3000             |   | 20  | 105   | 70-130      | 06/09/2018 0117 |
| Surrogate                          | Q                    | % Rec               | Acceptance Limit |   |     |       |             |                 |
| 1,2-Dichloroethane-d4              |                      | 97                  | 70-130           |   |     |       |             |                 |
| Bromofluorobenzene                 |                      | 98                  | 70-130           |   |     |       |             |                 |
| Toluene-d8                         |                      | 97                  | 70-130           |   |     |       |             |                 |

## Volatile Organic Compounds by GC/MS - MSD

Sample ID: TE31043-019MD

Matrix: Aqueous

Batch: 74345

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1500                 | 20000               | 20000         |   | 20  | 95    | 4.7   | 70-130      | 20          | 06/09/2018 0138 |
| tert-Amyl methyl ether (TAME)      | 15                   | 1000                | 1100          |   | 20  | 107   | 2.3   | 70-130      | 20          | 06/09/2018 0138 |
| Benzene                            | 1700                 | 1000                | 2700          |   | 20  | 99    | 2.9   | 70-130      | 20          | 06/09/2018 0138 |
| tert-Butyl formate (TBF)           | ND                   | 5000                | 2700          | N | 20  | 54    | 2.1   | 70-130      | 20          | 06/09/2018 0138 |
| 1,2-Dichloroethane                 | ND                   | 1000                | 1000          |   | 20  | 104   | 5.4   | 70-130      | 20          | 06/09/2018 0138 |
| Diisopropyl ether (IPE)            | 22                   | 1000                | 1000          |   | 20  | 102   | 2.8   | 70-130      | 20          | 06/09/2018 0138 |
| 3,3-Dimethyl-1-butanol             | ND                   | 20000               | 20000         |   | 20  | 101   | 2.1   | 70-130      | 20          | 06/09/2018 0138 |
| Ethanol                            | ND                   | 100000              | 100000        |   | 20  | 103   | 4.4   | 70-130      | 20          | 06/09/2018 0138 |
| Ethylbenzene                       | 67                   | 1000                | 1100          |   | 20  | 108   | 2.5   | 70-130      | 20          | 06/09/2018 0138 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 1000                | 1100          |   | 20  | 105   | 3.3   | 70-130      | 20          | 06/09/2018 0138 |
| Methyl tertiary butyl ether (MTBE) | 250                  | 1000                | 1300          |   | 20  | 104   | 2.8   | 70-130      | 20          | 06/09/2018 0138 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MSD

Sample ID: TE31043-019MD

Matrix: Aqueous

Batch: 74345

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|--------------------------|----------------------|---------------------|------------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Naphthalene              | 45                   | 1000                | 1100             |   | 20  | 108   | 0.46  | 70-130      | 20          | 06/09/2018 0138 |
| tert-butyl alcohol (TBA) | 160                  | 20000               | 20000            |   | 20  | 100   | 4.2   | 70-130      | 20          | 06/09/2018 0138 |
| Toluene                  | 300                  | 1000                | 1300             |   | 20  | 104   | 1.6   | 70-130      | 20          | 06/09/2018 0138 |
| Xylenes (total)          | 930                  | 2000                | 3100             |   | 20  | 107   | 0.98  | 70-130      | 20          | 06/09/2018 0138 |
| Surrogate                | Q                    | % Rec               | Acceptance Limit |   |     |       |       |             |             |                 |
| 1,2-Dichloroethane-d4    |                      | 94                  | 70-130           |   |     |       |       |             |             |                 |
| Bromofluorobenzene       |                      | 97                  | 70-130           |   |     |       |       |             |             |                 |
| Toluene-d8               |                      | 98                  | 70-130           |   |     |       |       |             |             |                 |

## Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ74359-001

Matrix: Aqueous

Batch: 74359

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |       | 1                | 20  | 8.0  | ug/L  | 06/08/2018 2110 |
| tert-Amyl methyl ether (TAME)      | ND     |       | 1                | 10  | 0.42 | ug/L  | 06/08/2018 2110 |
| Benzene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 2110 |
| tert-Butyl formate (TBF)           | ND     |       | 1                | 5.0 | 2.0  | ug/L  | 06/08/2018 2110 |
| 1,2-Dichloroethane                 | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 2110 |
| Diisopropyl ether (IPE)            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 2110 |
| 3,3-Dimethyl-1-butanol             | ND     |       | 1                | 20  | 8.0  | ug/L  | 06/08/2018 2110 |
| Ethanol                            | ND     |       | 1                | 100 | 40   | ug/L  | 06/08/2018 2110 |
| Ethylbenzene                       | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 2110 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 2110 |
| Methyl tertiary butyl ether (MTBE) | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 2110 |
| Naphthalene                        | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 2110 |
| tert-butyl alcohol (TBA)           | ND     |       | 1                | 20  | 8.0  | ug/L  | 06/08/2018 2110 |
| Toluene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 2110 |
| Xylenes (total)                    | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/08/2018 2110 |
| Surrogate                          | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4              |        | 108   | 70-130           |     |      |       |                 |
| Bromofluorobenzene                 |        | 95    | 70-130           |     |      |       |                 |
| Toluene-d8                         |        | 111   | 70-130           |     |      |       |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ74359-002

Matrix: Aqueous

Batch: 74359

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 1000          |                  | 1   | 103   | 70-130      | 06/08/2018 2027 |
| tert-Amyl methyl ether (TAME)      | 50                  | 54            |                  | 1   | 109   | 70-130      | 06/08/2018 2027 |
| Benzene                            | 50                  | 55            |                  | 1   | 110   | 70-130      | 06/08/2018 2027 |
| tert-Butyl formate (TBF)           | 250                 | 270           |                  | 1   | 110   | 70-130      | 06/08/2018 2027 |
| 1,2-Dichloroethane                 | 50                  | 54            |                  | 1   | 109   | 70-130      | 06/08/2018 2027 |
| Diisopropyl ether (IPE)            | 50                  | 57            |                  | 1   | 113   | 70-130      | 06/08/2018 2027 |
| 3,3-Dimethyl-1-butanol             | 1000                | 970           |                  | 1   | 97    | 70-130      | 06/08/2018 2027 |
| Ethanol                            | 5000                | 4900          |                  | 1   | 98    | 70-130      | 06/08/2018 2027 |
| Ethylbenzene                       | 50                  | 53            |                  | 1   | 107   | 70-130      | 06/08/2018 2027 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 55            |                  | 1   | 111   | 70-130      | 06/08/2018 2027 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 53            |                  | 1   | 106   | 70-130      | 06/08/2018 2027 |
| Naphthalene                        | 50                  | 52            |                  | 1   | 103   | 70-130      | 06/08/2018 2027 |
| tert-butyl alcohol (TBA)           | 1000                | 1000          |                  | 1   | 101   | 70-130      | 06/08/2018 2027 |
| Toluene                            | 50                  | 56            |                  | 1   | 112   | 70-130      | 06/08/2018 2027 |
| Xylenes (total)                    | 100                 | 100           |                  | 1   | 103   | 70-130      | 06/08/2018 2027 |
| Surrogate                          | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4              |                     | 112           | 70-130           |     |       |             |                 |
| Bromofluorobenzene                 |                     | 103           | 70-130           |     |       |             |                 |
| Toluene-d8                         |                     | 117           | 70-130           |     |       |             |                 |

## Volatile Organic Compounds by GC/MS - MS

Sample ID: TE31043-037MS

Matrix: Aqueous

Batch: 74359

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1400                 | 50000               | 52000         |   | 50  | 101   | 70-130      | 06/09/2018 0502 |
| tert-Amyl methyl ether (TAME)      | ND                   | 2500                | 2900          |   | 50  | 117   | 70-130      | 06/09/2018 0502 |
| Benzene                            | 1700                 | 2500                | 4600          |   | 50  | 116   | 70-130      | 06/09/2018 0502 |
| tert-Butyl formate (TBF)           | ND                   | 13000               | 12000         |   | 50  | 94    | 70-130      | 06/09/2018 0502 |
| 1,2-Dichloroethane                 | ND                   | 2500                | 2700          |   | 50  | 109   | 70-130      | 06/09/2018 0502 |
| Diisopropyl ether (IPE)            | 51                   | 2500                | 3000          |   | 50  | 119   | 70-130      | 06/09/2018 0502 |
| 3,3-Dimethyl-1-butanol             | ND                   | 50000               | 48000         |   | 50  | 95    | 70-130      | 06/09/2018 0502 |
| Ethanol                            | ND                   | 250000              | 250000        |   | 50  | 101   | 70-130      | 06/09/2018 0502 |
| Ethylbenzene                       | 120                  | 2500                | 2800          |   | 50  | 107   | 70-130      | 06/09/2018 0502 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 2500                | 3000          |   | 50  | 118   | 70-130      | 06/09/2018 0502 |
| Methyl tertiary butyl ether (MTBE) | 300                  | 2500                | 3300          |   | 50  | 120   | 70-130      | 06/09/2018 0502 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MS

Sample ID: TE31043-037MS

Matrix: Aqueous

Batch: 74359

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|--------------------------|----------------------|---------------------|------------------|---|-----|-------|-------------|-----------------|
| Naphthalene              | ND                   | 2500                | 2500             |   | 50  | 101   | 70-130      | 06/09/2018 0502 |
| tert-butyl alcohol (TBA) | ND                   | 50000               | 51000            |   | 50  | 102   | 70-130      | 06/09/2018 0502 |
| Toluene                  | ND                   | 2500                | 2800             |   | 50  | 111   | 70-130      | 06/09/2018 0502 |
| Xylenes (total)          | 320                  | 5000                | 5700             |   | 50  | 108   | 70-130      | 06/09/2018 0502 |
| Surrogate                | Q                    | % Rec               | Acceptance Limit |   |     |       |             |                 |
| 1,2-Dichloroethane-d4    |                      | 101                 | 70-130           |   |     |       |             |                 |
| Bromofluorobenzene       |                      | 94                  | 70-130           |   |     |       |             |                 |
| Toluene-d8               |                      | 103                 | 70-130           |   |     |       |             |                 |

## Volatile Organic Compounds by GC/MS - MSD

Sample ID: TE31043-037MD

Matrix: Aqueous

Batch: 74359

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|------------------|---|-----|-------|-------|-------------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1400                 | 50000               | 53000            |   | 50  | 103   | 1.8   | 70-130      | 20          | 06/09/2018 0523 |
| tert-Amyl methyl ether (TAME)      | ND                   | 2500                | 3000             |   | 50  | 118   | 1.5   | 70-130      | 20          | 06/09/2018 0523 |
| Benzene                            | 1700                 | 2500                | 4600             |   | 50  | 116   | 0.31  | 70-130      | 20          | 06/09/2018 0523 |
| tert-Butyl formate (TBF)           | ND                   | 13000               | 12000            |   | 50  | 92    | 1.5   | 70-130      | 20          | 06/09/2018 0523 |
| 1,2-Dichloroethane                 | ND                   | 2500                | 2800             |   | 50  | 111   | 1.2   | 70-130      | 20          | 06/09/2018 0523 |
| Diisopropyl ether (IPE)            | 51                   | 2500                | 3000             |   | 50  | 117   | 1.8   | 70-130      | 20          | 06/09/2018 0523 |
| 3,3-Dimethyl-1-butanol             | ND                   | 50000               | 48000            |   | 50  | 97    | 1.1   | 70-130      | 20          | 06/09/2018 0523 |
| Ethanol                            | ND                   | 250000              | 260000           |   | 50  | 104   | 2.9   | 70-130      | 20          | 06/09/2018 0523 |
| Ethylbenzene                       | 120                  | 2500                | 2800             |   | 50  | 108   | 1.2   | 70-130      | 20          | 06/09/2018 0523 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 2500                | 3000             |   | 50  | 118   | 0.13  | 70-130      | 20          | 06/09/2018 0523 |
| Methyl tertiary butyl ether (MTBE) | 300                  | 2500                | 3200             |   | 50  | 117   | 2.8   | 70-130      | 20          | 06/09/2018 0523 |
| Naphthalene                        | ND                   | 2500                | 2500             |   | 50  | 101   | 0.53  | 70-130      | 20          | 06/09/2018 0523 |
| tert-butyl alcohol (TBA)           | ND                   | 50000               | 52000            |   | 50  | 103   | 1.8   | 70-130      | 20          | 06/09/2018 0523 |
| Toluene                            | ND                   | 2500                | 2900             |   | 50  | 114   | 3.0   | 70-130      | 20          | 06/09/2018 0523 |
| Xylenes (total)                    | 320                  | 5000                | 5700             |   | 50  | 107   | 0.84  | 70-130      | 20          | 06/09/2018 0523 |
| Surrogate                          | Q                    | % Rec               | Acceptance Limit |   |     |       |       |             |             |                 |
| 1,2-Dichloroethane-d4              |                      | 104                 | 70-130           |   |     |       |       |             |             |                 |
| Bromofluorobenzene                 |                      | 95                  | 70-130           |   |     |       |       |             |             |                 |
| Toluene-d8                         |                      | 107                 | 70-130           |   |     |       |       |             |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



## Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ74383-001

Matrix: Aqueous

Batch: 74383

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |       | 1                | 20  | 8.0  | ug/L  | 06/09/2018 1928 |
| tert-Amyl methyl ether (TAME)      | ND     |       | 1                | 10  | 0.42 | ug/L  | 06/09/2018 1928 |
| Benzene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/09/2018 1928 |
| tert-Butyl formate (TBF)           | ND     |       | 1                | 5.0 | 2.0  | ug/L  | 06/09/2018 1928 |
| 1,2-Dichloroethane                 | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/09/2018 1928 |
| Diisopropyl ether (IPE)            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/09/2018 1928 |
| 3,3-Dimethyl-1-butanol             | ND     |       | 1                | 20  | 8.0  | ug/L  | 06/09/2018 1928 |
| Ethanol                            | ND     |       | 1                | 100 | 40   | ug/L  | 06/09/2018 1928 |
| Ethylbenzene                       | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/09/2018 1928 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/09/2018 1928 |
| Methyl tertiary butyl ether (MTBE) | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/09/2018 1928 |
| Naphthalene                        | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/09/2018 1928 |
| tert-butyl alcohol (TBA)           | ND     |       | 1                | 20  | 8.0  | ug/L  | 06/09/2018 1928 |
| Toluene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/09/2018 1928 |
| Xylenes (total)                    | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 06/09/2018 1928 |
| Surrogate                          | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4              |        | 101   | 70-130           |     |      |       |                 |
| Bromofluorobenzene                 |        | 94    | 70-130           |     |      |       |                 |
| Toluene-d8                         |        | 103   | 70-130           |     |      |       |                 |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ74383-002

Matrix: Aqueous

Batch: 74383

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 1000          |   | 1   | 103   | 70-130      | 06/09/2018 1846 |
| tert-Amyl methyl ether (TAME)      | 50                  | 55            |   | 1   | 110   | 70-130      | 06/09/2018 1846 |
| Benzene                            | 50                  | 55            |   | 1   | 111   | 70-130      | 06/09/2018 1846 |
| tert-Butyl formate (TBF)           | 250                 | 280           |   | 1   | 113   | 70-130      | 06/09/2018 1846 |
| 1,2-Dichloroethane                 | 50                  | 53            |   | 1   | 105   | 70-130      | 06/09/2018 1846 |
| Diisopropyl ether (IPE)            | 50                  | 56            |   | 1   | 113   | 70-130      | 06/09/2018 1846 |
| 3,3-Dimethyl-1-butanol             | 1000                | 980           |   | 1   | 98    | 70-130      | 06/09/2018 1846 |
| Ethanol                            | 5000                | 5100          |   | 1   | 101   | 70-130      | 06/09/2018 1846 |
| Ethylbenzene                       | 50                  | 53            |   | 1   | 105   | 70-130      | 06/09/2018 1846 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 57            |   | 1   | 114   | 70-130      | 06/09/2018 1846 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 56            |   | 1   | 112   | 70-130      | 06/09/2018 1846 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

# Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ74383-002

Matrix: Aqueous

Batch: 74383

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Spike<br>Amount<br>(ug/L) | Result<br>(ug/L) | Q | Dil | % Rec               | % Rec<br>Limit | Analysis Date   |
|--------------------------|---------------------------|------------------|---|-----|---------------------|----------------|-----------------|
| Naphthalene              | 50                        | 50               |   | 1   | 100                 | 70-130         | 06/09/2018 1846 |
| tert-butyl alcohol (TBA) | 1000                      | 1000             |   | 1   | 100                 | 70-130         | 06/09/2018 1846 |
| Toluene                  | 50                        | 55               |   | 1   | 110                 | 70-130         | 06/09/2018 1846 |
| Xylenes (total)          | 100                       | 100              |   | 1   | 103                 | 70-130         | 06/09/2018 1846 |
| Surrogate                | Q                         | % Rec            |   |     | Acceptance<br>Limit |                |                 |
| 1,2-Dichloroethane-d4    |                           | 97               |   |     | 70-130              |                |                 |
| Bromofluorobenzene       |                           | 94               |   |     | 70-130              |                |                 |
| Toluene-d8               |                           | 103              |   |     | 70-130              |                |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and  $\geq$  DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Chain of Custody  
and  
Miscellaneous Documents








**Chain of Custody Record**

**SHEALY ENVIRONMENTAL SERVICES, INC.**  
106 Vantage Point Drive • West Columbia, SC 29172  
Telephone No. 803-791-9700 Fax No. 803-791-9111  
www.shealylab.com

Number **84442**

|   |                    |   |             |   |  |  |  |
|---|--------------------|---|-------------|---|--|--|--|
| Client<br><b>TEERT ENVIRONMENTAL SERVICES</b>   |                    | Report to Contact<br><b>KELLY CONE</b>  |             | Telephone No. / Email<br><b>843-873-8200</b>  |  | Quote No.  |  |
| Address<br><b>PO BOX 25</b>   |                    | Sampler's Signature<br><i>[Signature]</i>   |             | Analysis (Attach list if more space is needed)  |  | Page <b>3</b> of <b>4</b>  |  |
| City<br><b>SAMMERVILLE</b>  | State<br><b>SC</b> | Zip Code<br><b>29484</b>  |             | Printed Name<br><b>LANGSTON JONES</b>   |  | <br><b>TE31043</b><br><small>KMN2</small> |  |
| Project Name<br><b>HOT SPOT #3005</b>   |                    | Project No.<br><b>2230.8 I</b>  |             | P.D. No.  |  |  |  |
| Sample ID / Description<br><small>(Containers for each sample may be combined on one list.)</small>   |                    | Date  | Time        | Matrix  | No. of Containers by Preservative Type |  | STEEL, NYLON, GYTHG<br>1, 2, DCS, ONLY ETC |
| <b>12719</b>  | <b>MW-18</b>       | <b>5/30/18</b>  | <b>1421</b> | <b>ETX</b>  | <b>3</b>                               | <b>3</b>   |  |
|   | <b>MW-19</b>       | <b>5/29/18</b>  | <b>1505</b> |   |  |  |  |
|   | <b>MW-20</b>       | <b>5/29/18</b>  | <b>1520</b> |   |  |  |  |
|   | <b>MW-21</b>       | <b>5/29/18</b>  | <b>1535</b> |   |  |  |  |
|   | <b>MW-22</b>       | <b>5/30/18</b>  | <b>1548</b> |   |  |  |  |
|   | <b>MW-23</b>       | <b>5/30/18</b>  | <b>1456</b> |   |  |  |  |
|   | <b>MW-24</b>       | <b>5/30/18</b>  | <b>1240</b> |   |  |  |  |
|   | <b>MW-25</b>       | <b>5/30/18</b>  | <b>0920</b> |   |  |  |  |
|   | <b>MW-11</b>       | <b>5/30/18</b>  | <b>1824</b> |   |  |  |  |
|   | <b>DW-2</b>        | <b>5/30/18</b>  | <b>1000</b> |   |  |  |  |
| Turn Around Time Required (Prior lab approval required for expedited TAT)<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify) |                    | Sample Disposal<br><input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Dispose by Lab |             | Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown |  | QC Requirements (Specify)  |  |
| 1. Relinquished by <i>[Signature]</i>   |                    | Date  | Time        | 1. Received by  |  | Date   | Time                                       |
| 2. Relinquished by  |                    | Date  | Time        | 2. Received by  |  | Date   | Time                                       |
| 3. Relinquished by  |                    | Date  | Time        | 3. Received by  |  | Date   | Time                                       |
| 4. Relinquished by  |                    | Date  | Time        | 4. Laboratory received by <i>[Signature]</i>  |  | Date   | Time                                       |
| Note: All samples are retained for four weeks from receipt unless other arrangements are made.  |                    |   |             | LAB USE ONLY<br>Received on ice (Circle) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Ice Pack   |  | Receipt Temp. <b>2.6 °C</b>  |  |

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014



# Chain of Custody Record

**SHEALY ENVIRONMENTAL SERVICES, INC.**  
 106 Vantage Point Drive • West Columbia, SC 29172  
 Telephone No. 803-791-9700 Fax No. 803-791-9111  
 www.shealylab.com

Number **84444**

|  |                    |  |      |   |  |                             |                           |  |
|--|--------------------|--|------|---|--|-----------------------------|---------------------------|--|
| Client<br><b>TERRA ENVIRONMENTAL SERVICES</b>  |                    | Report to Contact<br><b>KELLY CONE</b>   |      | Telephone No. / E-mail<br><b>843-873-8200</b>   |  | Quote No.                   |                           |  |
| Address<br><b>PO Box 25</b>  |                    | Sampler's Signature<br><i>Langston Jones</i>   |      | Analysis (Attach list if more space is needed)  |  | Page <b>4</b> of <b>4</b>   |                           |  |
| City<br><b>SUMMERVILLE</b>   | State<br><b>SC</b> | Zip Code<br><b>29484</b>   |      | Printed Name<br><b>LANGSTON JONES</b>   |  | Barcode<br><b>TE31043</b>   |                           |  |
| Project Name<br><b>Hot Spot #3005</b>  |                    | Project No.<br><b>2230.8I</b>  |      | R.O. No.  |  | Remarks / Cooler I.D.       |                           |  |
| Sample ID / Description<br><i>(Contains for each sample may be combined on one line.)</i>  |                    | Date   | Time | Matrix  | No. of Containers by Preservation Type |                             |                           |  |
|  |                    |  |      | Aspirated   | Aspirated                              | NO                          | OTHER                     |  |
| 12719 DW-3   |                    | 5/30/18  | 1335 | GLX   |  | 3                           | 3                         |  |
| RW-1   |                    | 5/30/18  | 1742 |   |  |                             |                           |  |
| RW-2   |                    | 5/30/18  | 1730 |   |  |                             |                           |  |
| RW-3   |                    | 5/30/18  | 1655 |   |  |                             |                           |  |
| SW-1   |                    | 5/30/18  | 1845 |   |  |                             |                           |  |
| MW-2R Dup.   |                    | 5/30/18  | 1751 |   |  |                             |                           |  |
| RW-3 Dup.  |                    | 5/30/18  | 1655 |   |  |                             |                           |  |
| FB-1   |                    | 5/27/18  | 1300 |   |  |                             |                           |  |
| FB-2   |                    | 5/30/18  | 0830 |   |  |                             |                           |  |
| TB-1   |                    |  |      |   |  | 2                           | 2                         |  |
| Turn Around Time Required (Prior lab approval required for expedited TAT.)<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify) |                    | Sample Disposal<br><input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab |      | Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown |  |                             | GC Requirements (Specify) |  |
| 1. Relinquished by <i>Langston Jones</i>   |                    | Date   | Time | 1. Received by  |  | Date                        | Time                      |  |
| 2. Relinquished by   |                    | Date   | Time | 2. Received by  |  | Date                        | Time                      |  |
| 3. Relinquished by   |                    | Date   | Time | 3. Received by  |  | Date                        | Time                      |  |
| 4. Relinquished by   |                    | Date   | Time | 4. Laboratory received by <i>WJL</i>  |  | Date                        | Time                      |  |
| Note: All samples are retained for four weeks from receipt unless other arrangements are made.   |                    |  |      | LAD USE ONLY<br>Received on Ice (Circle) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Ice Pack   |  | Receipt Temp. <b>2.6</b> °C |                           |  |

DISTRIBUTION: WRITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

# SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.  
Document Number: ME0018C-13

Page 1 of 1  
Effective Date: 4/5/2018

## Sample Receipt Checklist (SRC)

Client: Terry Envl Cooler Inspected by/date: LKH/ 5-30-18 Lot #: TE31043

|   |   |
|---|---|
| Means of receipt: <input type="checkbox"/> SESI <input checked="" type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____                                |   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   | 1. Were custody seals present on the cooler?  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA   | 2. If custody seals were present, were they intact and unbroken?  |
| pH Strip ID: _____ Chlorine Strip ID: _____   |   |
| Cooler ID / Original temperature upon receipt / Derived (Corrected) temperature upon receipt:<br><u>12626</u> °C / / °C / / °C  |   |
| Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>6</u> IR Gun Correction Factor: <u>0</u> °C  |   |
| Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None  |   |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA   | 3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified?<br>PM was Notified by: phone / email / face-to-face (circle one).               |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA   | 4. Is the commercial courier's packing slip attached to this form?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 5. Were proper custody procedures (relinquished/received) followed?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 6. Were sample IDs listed on the COC?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 7. Were sample IDs listed on all sample containers?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 8. Was collection date & time listed on the COC?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 9. Was collection date & time listed on all sample containers?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 10. Did all container label information (ID, date, time) agree with the COC?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 11. Were tests to be performed listed on the COC?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? _____                                   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 13. Was adequate sample volume available?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 14. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   | 15. Were any samples containers missing/excess (circle one) samples Not listed on COC?  |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA   | 16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (1/4" or 6mm in diameter) in any of the VOA vials?  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA   | 17. Were all DRO/metals/nutrient samples received at a pH of < 2?   |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA   | 18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA   | 19. Were all applicable NH <sub>3</sub> /TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA   | 20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS? |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   | 21. Was the quote number used taken from the container label?   |
| <b>Sample Preservation</b> (Must be completed for any sample(s) incorrectly preserved or with headspace.)   |   |
| Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H2SO4, HNO3, HCl, NaOH) using SR # _____.   |   |
| Time of preservation _____.   |   |
| Sample(s) _____ were received with bubbles >6 mm in diameter.   |   |
| Sample(s) _____ were received with TRC > 0.5 mg/L. (If #19 is <b>no</b> ) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ) with Shealy ID: _____. |   |
| SR barcode labels applied by: <u>LKH</u> Date: <u>5-31-18</u>   |   |

Comments:

---



---



---



---



---



**APPENDIX C**

**Tax Map  
(Not Applicable)**

**APPENDIX D**

**Soil Boring/Field Screening Logs/ SCDHEC 1903 Forms**



**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

### SOIL BORING LOG

SOIL BORING #12719-GW1  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC  
TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY

DRILLING COMPANY: TERRY EXPLORATION, LLC.  
DRILLER: JOHN S KERR (CERT #2128B)  
FIELD PERSONNEL: H. MILES  
START DATE: 01/25/2018 FINISH DATE: 01/26/2018

TERMINATION DEPTH: 34 FT BGS  
WATER LEVEL: EST 28 FT BGS  
ABANDONMENT METHOD: GROUT  
SAMPLE RETRIEVED: 30-34 FT BGS

| Depth Scale | Sample | Odor | PID/OVA | Moisture Content | Lithology | Water Level | BORING ABANDONMENT |
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|

|    |  |  |  |  |  |  |   |
|----|--|--|--|--|--|--|---|
| 0  |  |  |  |  |  |  |   |
| 5  |  |  |  |  |  |  |   |
| 10 |  |  |  |  |  |  |   |
| 15 |  |  |  |  |  |  |   |
| 20 |  |  |  |  |  |  |   |
| 25 |  |  |  |  |  |  |   |
| 30 |  |  |  |  |  |  |   |
|    |  |  |  |  | <p>WATER SAMPLE WAS COLLECTED AT BORING TERMINAL DEPTH AND SUBMITTED TO A SCDHEC CERTIFIED LABORATORY FOR QUICK SCREEN ANALYSIS. NO SOIL SAMPLES WERE COLLECTED.</p> |  | <p>PORTLAND NEAT CEMENT FROM END OF BORING TO GROUND SURFACE.</p> |



**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

### SOIL BORING LOG

SOIL BORING #12719-GW2  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC  
TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY

DRILLING COMPANY: TERRY EXPLORATION, LLC.  
DRILLER: JOHN S KERR (CERT #2128B)  
FIELD PERSONNEL: H. MILES  
START DATE: 01/24/2018 FINISH DATE: 01/26/2018

TERMINATION DEPTH: 34 FT BGS  
WATER LEVEL: EST 28 FT BGS  
ABANDONMENT METHOD: GROUT  
SAMPLE RETRIEVED: 30-34 FT BGS

| Depth Scale | Sample | Odor | PID/OVA | Moisture Content | Lithology | Water Level | BORING ABANDONMENT |
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|

|    |  |  |  |  |   |  |  |
|----|--|--|--|--|---|--|--|
| 0  |  |  |  |  | WATER SAMPLE WAS COLLECTED AT BORING TERMINAL DEPTH AND SUBMITTED TO A SCDHEC CERTIFIED LABORATORY FOR QUICK SCREEN ANALYSIS AND CONFIRMATION ANALYSIS. NO SOIL SAMPLES WERE COLLECTED. |  | PORTLAND NEAT CEMENT FROM END OF BORING TO GROUND SURFACE. |
| 5  |  |  |  |  |   |  |  |
| 10 |  |  |  |  |   |  |  |
| 15 |  |  |  |  |   |  |  |
| 20 |  |  |  |  |   |  |  |
| 25 |  |  |  |  |   |  |  |
| 30 |  |  |  |  |   |  |  |



**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

### SOIL BORING LOG

SOIL BORING #12719-GW3  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC  
TERRY PROJECT #: 2230.8I  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY

DRILLING COMPANY: TERRY EXPLORATION, LLC.  
DRILLER: JOHN S KERR (CERT #2128B)  
FIELD PERSONNEL: H. MILES  
START DATE: 01/24/2018 FINISH DATE: 01/26/2018

TERMINATION DEPTH: 34 FT BGS  
WATER LEVEL: EST 28 FT BGS  
ABANDONMENT METHOD: GROUT  
SAMPLE RETRIEVED: 30-34 FT BGS

| Depth Scale | Sample | Odor | PID/OVA | Moisture Content | Lithology | Water Level | BORING ABANDONMENT |
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|

|    |  |  |  |  |   |  |  |
|----|--|--|--|--|---|--|--|
| 0  |  |  |  |  | WATER SAMPLE WAS COLLECTED AT BORING TERMINAL DEPTH AND SUBMITTED TO A SCDHEC CERTIFIED LABORATORY FOR QUICK SCREEN ANALYSIS. NO SOIL SAMPLES WERE COLLECTED. |  | PORTLAND NEAT CEMENT FROM END OF BORING TO GROUND SURFACE. |
| 5  |  |  |  |  |   |  |  |
| 10 |  |  |  |  |   |  |  |
| 15 |  |  |  |  |   |  |  |
| 20 |  |  |  |  |   |  |  |
| 25 |  |  |  |  |   |  |  |
| 30 |  |  |  |  |   |  |  |



**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

### SOIL BORING LOG

SOIL BORING #12719-GW4  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC  
TERRY PROJECT #: 2230.8I  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY

DRILLING COMPANY: TERRY EXPLORATION, LLC.  
DRILLER: JOHN S KERR (CERT #2128B)  
FIELD PERSONNEL: H. MILES  
START DATE: 01/26/2018 FINISH DATE: 01/26/2018

TERMINATION DEPTH: 34 FT BGS  
WATER LEVEL: EST 28 FT BGS  
ABANDONMENT METHOD: GROUT  
SAMPLE RETRIEVED: 30-34 FT BGS

| Depth Scale | Sample | Odor | PID/OVA | Moisture Content | Lithology | Water Level | BORING ABANDONMENT |
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|

|                                      |  |  |  |  |   |  |  |
|--------------------------------------|--|--|--|--|---|--|--|
| 0<br>5<br>10<br>15<br>20<br>25<br>30 |  |  |  |  | WATER SAMPLE WAS COLLECTED AT BORING TERMINAL DEPTH AND SUBMITTED TO A SCDHEC CERTIFIED LABORATORY FOR QUICK SCREEN ANALYSIS. NO SOIL SAMPLES WERE COLLECTED. |  | PORTLAND NEAT CEMENT FROM END OF BORING TO GROUND SURFACE. |
|--------------------------------------|--|--|--|--|---|--|--|



**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

### SOIL BORING LOG

SOIL BORING #12719-GW5  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC  
TERRY PROJECT #: 2230.8I  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY

DRILLING COMPANY: TERRY EXPLORATION, LLC.  
DRILLER: JOHN S KERR (CERT #2128B)  
FIELD PERSONNEL: H. MILES  
START DATE: 01/25/2018 FINISH DATE: 01/26/2018

TERMINATION DEPTH: 34 FT BGS  
WATER LEVEL: EST 28 FT BGS  
ABANDONMENT METHOD: GROUT  
SAMPLE RETRIEVED: 30-34 FT BGS

| Depth Scale | Sample | Odor | PID/OVA | Moisture Content | Lithology | Water Level | BORING ABANDONMENT |
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|

|    |  |  |  |  |   |  |  |
|----|--|--|--|--|---|--|--|
| 0  |  |  |  |  | WATER SAMPLE WAS COLLECTED AT BORING TERMINAL DEPTH AND SUBMITTED TO A SCDHEC CERTIFIED LABORATORY FOR QUICK SCREEN ANALYSIS. NO SOIL SAMPLES WERE COLLECTED. |  | PORTLAND NEAT CEMENT FROM END OF BORING TO GROUND SURFACE. |
| 5  |  |  |  |  |   |  |  |
| 10 |  |  |  |  |   |  |  |
| 15 |  |  |  |  |   |  |  |
| 20 |  |  |  |  |   |  |  |
| 25 |  |  |  |  |   |  |  |
| 30 |  |  |  |  |   |  |  |



**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

### SOIL BORING LOG

SOIL BORING #12719-GW6  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC  
TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY

DRILLING COMPANY: TERRY EXPLORATION, LLC.  
DRILLER: JOHN S KERR (CERT #2128B)  
FIELD PERSONNEL: H. MILES  
START DATE: 01/25/2018 FINISH DATE: 01/26/2018

TERMINATION DEPTH: 34 FT BGS  
WATER LEVEL: EST 28 FT BGS  
ABANDONMENT METHOD: GROUT  
SAMPLE RETRIEVED: 30-34 FT BGS

| Depth Scale | Sample | Odor | PID/OVA | Moisture Content | Lithology | Water Level | BORING ABANDONMENT |
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|

|    |  |  |  |  |   |  |  |
|----|--|--|--|--|---|--|--|
| 0  |  |  |  |  | WATER SAMPLE WAS COLLECTED AT BORING TERMINAL DEPTH AND SUBMITTED TO A SCDHEC CERTIFIED LABORATORY FOR QUICK SCREEN ANALYSIS. NO SOIL SAMPLES WERE COLLECTED. |  | PORTLAND NEAT CEMENT FROM END OF BORING TO GROUND SURFACE. |
| 5  |  |  |  |  |   |  |  |
| 10 |  |  |  |  |   |  |  |
| 15 |  |  |  |  |   |  |  |
| 20 |  |  |  |  |   |  |  |
| 25 |  |  |  |  |   |  |  |
| 30 |  |  |  |  |   |  |  |





**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM


### SOIL BORING LOG

SOIL BORING #12719-GW7  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC  
TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY

DRILLING COMPANY: TERRY EXPLORATION, LLC.  
DRILLER: JOHN S KERR (CERT #2128B)  
FIELD PERSONNEL: H. MILES  
START DATE: 01/25/2018 FINISH DATE: 01/26/2018

TERMINATION DEPTH: 34 FT BGS  
WATER LEVEL: EST 28 FT BGS  
ABANDONMENT METHOD: GROUT  
SAMPLE RETRIEVED: 30-34 FT BGS

| Depth Scale | Sample | Odor | PID/OVA | Moisture Content | Lithology | Water Level | BORING ABANDONMENT |
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|

|                                      |  |  |  |  |   |  |  |
|--------------------------------------|--|--|--|--|---|--|--|
| 0<br>5<br>10<br>15<br>20<br>25<br>30 |  |  |  |  | WATER SAMPLE WAS COLLECTED AT BORING TERMINAL DEPTH AND SUBMITTED TO A SCDHEC CERTIFIED LABORATORY FOR QUICK SCREEN ANALYSIS AND CONFIRMATION ANALYSIS. NO SOIL SAMPLES WERE COLLECTED. |  | PORTLAND NEAT CEMENT FROM END OF BORING TO GROUND SURFACE. |
|--------------------------------------|--|--|--|--|---|--|--|



**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

**SOIL BORING LOG**

SOIL BORING #12719-GW8  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC  
TERRY PROJECT #: 2230.8I  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY

DRILLING COMPANY: TERRY EXPLORATION, LLC.  
DRILLER: JOHN S KERR (CERT #2128B)  
FIELD PERSONNEL: H. MILES  
START DATE: 01/25/2018 FINISH DATE: 01/26/2018

TERMINATION DEPTH: 34 FT BGS  
WATER LEVEL: EST 28 FT BGS  
ABANDONMENT METHOD: GROUT  
SAMPLE RETRIEVED: 30-34 FT BGS

| Depth Scale | Sample | Odor | PID/OVA | Moisture Content | Lithology | Water Level | BORING ABANDONMENT |
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|

|    |  |  |  |  |   |  |  |
|----|--|--|--|--|---|--|--|
| 0  |  |  |  |  | WATER SAMPLE WAS COLLECTED AT BORING TERMINAL DEPTH AND SUBMITTED TO A SCDHEC CERTIFIED LABORATORY FOR QUICK SCREEN ANALYSIS. NO SOIL SAMPLES WERE COLLECTED. |  | PORTLAND NEAT CEMENT FROM END OF BORING TO GROUND SURFACE. |
| 5  |  |  |  |  |   |  |  |
| 10 |  |  |  |  |   |  |  |
| 15 |  |  |  |  |   |  |  |
| 20 |  |  |  |  |   |  |  |
| 25 |  |  |  |  |   |  |  |
| 30 |  |  |  |  |   |  |  |



**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

### SOIL BORING LOG

SOIL BORING #12719-GW9  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC  
TERRY PROJECT #: 2230.8I  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY

DRILLING COMPANY: TERRY EXPLORATION, LLC.  
DRILLER: JOHN S KERR (CERT #2128B)  
FIELD PERSONNEL: H. MILES  
START DATE: 01/25/2018 FINISH DATE: 01/26/2018

TERMINATION DEPTH: 34 FT BGS  
WATER LEVEL: EST 28 FT BGS  
ABANDONMENT METHOD: GROUT  
SAMPLE RETRIEVED: 30-34 FT BGS

| Depth Scale | Sample | Odor | PID/OVA | Moisture Content | Lithology | Water Level | BORING ABANDONMENT |
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|

|                                      |  |  |  |  |  |  |   |
|--------------------------------------|--|--|--|--|--|--|---|
| 0<br>5<br>10<br>15<br>20<br>25<br>30 |  |  |  |  | <p>WATER SAMPLE WAS COLLECTED AT BORING TERMINAL DEPTH AND SUBMITTED TO A SCDHEC CERTIFIED LABORATORY FOR QUICK SCREEN ANALYSIS. NO SOIL SAMPLES WERE COLLECTED.</p> |  | <p>PORTLAND NEAT CEMENT FROM END OF BORING TO GROUND SURFACE.</p> |
|--------------------------------------|--|--|--|--|--|--|---|



**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

### SOIL BORING LOG

SOIL BORING #12719-GW10  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC  
TERRY PROJECT #: 2230.8I  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY

DRILLING COMPANY: TERRY EXPLORATION, LLC.  
DRILLER: JOHN S KERR (CERT #2128B)  
FIELD PERSONNEL: H. MILES  
START DATE: 01/25/2018 FINISH DATE: 01/26/2018

TERMINATION DEPTH: 34 FT BGS  
WATER LEVEL: EST 28 FT BGS  
ABANDONMENT METHOD: GROUT  
SAMPLE RETRIEVED: 30-34 FT BGS

| Depth Scale | Sample | Odor | PID/OVA | Moisture Content | Lithology | Water Level | BORING ABANDONMENT |
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|

|    |  |  |  |  |   |  |  |
|----|--|--|--|--|---|--|--|
| 0  |  |  |  |  | WATER SAMPLE WAS COLLECTED AT BORING TERMINAL DEPTH AND SUBMITTED TO A SCDHEC CERTIFIED LABORATORY FOR QUICK SCREEN ANALYSIS. NO SOIL SAMPLES WERE COLLECTED. |  | PORTLAND NEAT CEMENT FROM END OF BORING TO GROUND SURFACE. |
| 5  |  |  |  |  |   |  |  |
| 10 |  |  |  |  |   |  |  |
| 15 |  |  |  |  |   |  |  |
| 20 |  |  |  |  |   |  |  |
| 25 |  |  |  |  |   |  |  |
| 30 |  |  |  |  |   |  |  |



**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

### SOIL BORING LOG

SOIL BORING #12719-GW11  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC  
TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY

DRILLING COMPANY: TERRY EXPLORATION, LLC.  
DRILLER: JOHN S KERR (CERT #2128B)  
FIELD PERSONNEL: H. MILES  
START DATE: 01/25/2018 FINISH DATE: 01/26/2018

TERMINATION DEPTH: 34 FT BGS  
WATER LEVEL: EST 28 FT BGS  
ABANDONMENT METHOD: GROUT  
SAMPLE RETRIEVED: 30-34 FT BGS

| Depth Scale | Sample | Odor | PID/OVA | Moisture Content | Lithology   | Water Level | BORING ABANDONMENT   |
|-------------|--------|------|---------|------------------|---|-------------|--|
| 0           |        |      |         |                  |   |             |  |
| 5           |        |      |         |                  |   |             |  |
| 10          |        |      |         |                  |   |             |  |
| 15          |        |      |         |                  |   |             |  |
| 20          |        |      |         |                  |   |             |  |
| 25          |        |      |         |                  |   |             |  |
| 30          |        |      |         |                  |   |             |  |
|             |        |      |         |                  | WATER SAMPLE WAS COLLECTED AT BORING TERMINAL DEPTH AND SUBMITTED TO A SCDHEC CERTIFIED LABORATORY FOR QUICK SCREEN ANALYSIS. NO SOIL SAMPLES WERE COLLECTED. |             | PORTLAND NEAT CEMENT FROM END OF BORING TO GROUND SURFACE. |



**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

### SOIL BORING LOG

SOIL BORING #12719-GW12  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC  
TERRY PROJECT #: 2230.8I  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY

DRILLING COMPANY: TERRY EXPLORATION, LLC.  
DRILLER: JOHN S KERR (CERT #2128B)  
FIELD PERSONNEL: H. MILES  
START DATE: 01/26/2018 FINISH DATE: 01/26/2018

TERMINATION DEPTH: 34 FT BGS  
WATER LEVEL: EST 28 FT BGS  
ABANDONMENT METHOD: GROUT  
SAMPLE RETRIEVED: 30-34 FT BGS

| Depth Scale | Sample | Odor | PID/OVA | Moisture Content | Lithology | Water Level | BORING ABANDONMENT |
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|

|                                      |  |  |  |  |  |  |   |
|--------------------------------------|--|--|--|--|--|--|---|
| 0<br>5<br>10<br>15<br>20<br>25<br>30 |  |  |  |  | <p>WATER SAMPLE WAS COLLECTED AT BORING TERMINAL DEPTH AND SUBMITTED TO A SCDHEC CERTIFIED LABORATORY FOR QUICK SCREEN ANALYSIS. NO SOIL SAMPLES WERE COLLECTED.</p> |  | <p>PORTLAND NEAT CEMENT FROM END OF BORING TO GROUND SURFACE.</p> |
|--------------------------------------|--|--|--|--|--|--|---|



**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

**SOIL BORING LOG**

SOIL BORING #12719-GW13  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC  
TERRY PROJECT #: 2230.8I  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY

DRILLING COMPANY: TERRY EXPLORATION, LLC.  
DRILLER: JOHN S KERR (CERT #2128B)  
FIELD PERSONNEL: H. MILES  
START DATE: 01/26/2018 FINISH DATE: 01/26/2018

TERMINATION DEPTH: 34 FT BGS  
WATER LEVEL: EST 28 FT BGS  
ABANDONMENT METHOD: GROUT  
SAMPLE RETRIEVED: 30-34 FT BGS

| Depth Scale | Sample | Odor | PID/OVA | Moisture Content | Lithology | Water Level | BORING ABANDONMENT |
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|

|    |  |  |  |  |   |  |  |
|----|--|--|--|--|---|--|--|
| 0  |  |  |  |  | WATER SAMPLE WAS COLLECTED AT BORING TERMINAL DEPTH AND SUBMITTED TO A SCDHEC CERTIFIED LABORATORY FOR QUICK SCREEN ANALYSIS. NO SOIL SAMPLES WERE COLLECTED. |  | PORTLAND NEAT CEMENT FROM END OF BORING TO GROUND SURFACE. |
| 5  |  |  |  |  |   |  |  |
| 10 |  |  |  |  |   |  |  |
| 15 |  |  |  |  |   |  |  |
| 20 |  |  |  |  |   |  |  |
| 25 |  |  |  |  |   |  |  |
| 30 |  |  |  |  |   |  |  |



**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

### SOIL BORING LOG

SOIL BORING #12719-GW1D  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC  
TERRY PROJECT #: 2230.8I  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY

DRILLING COMPANY: TERRY EXPLORATION, LLC.  
DRILLER: JOHN S KERR (CERT #2128B)  
FIELD PERSONNEL: H. MILES  
START DATE: 01/24/2018 FINISH DATE: 01/26/2018

TERMINATION DEPTH: 60 FT BGS  
WATER LEVEL: EST 28 FT BGS  
ABANDONMENT METHOD: GROUT  
SAMPLE RETRIEVED: 56-60 FT BGS

| Depth Scale | Sample | Odor | PID/OVA | Moisture Content | Lithology | Water Level | BORING ABANDONMENT |
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|

|    |  |  |  |  |  |    |  |
|----|--|--|--|--|--|----|--|
| 0  |  |  |  |  | WATER SAMPLES WERE COLLECTED AT A DEPTH OF 50FT, 55FT, AND 60FT. THE SAMPLES WERE SUBMITTED TO A SCDHEC CERTIFIED LABORATORY FOR QUICKSCREEN ANALYSIS AND CONFIRMATION ANALYSIS. NO SOIL SAMPLES WERE COLLECTED. | 28 | PORTLAND NEAT CEMENT FROM END OF BORING TO GROUND SURFACE. |
| 5  |  |  |  |  |  |    |  |
| 10 |  |  |  |  |  |    |  |
| 15 |  |  |  |  |  |    |  |
| 20 |  |  |  |  |  |    |  |
| 25 |  |  |  |  |  |    |  |
| 30 |  |  |  |  |  |    |  |
| 35 |  |  |  |  |  |    |  |
| 40 |  |  |  |  |  |    |  |
| 45 |  |  |  |  |  |    |  |
| 50 |  |  |  |  |  |    |  |
| 55 |  |  |  |  |  |    |  |
| 60 |  |  |  |  |  |    |  |





**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

### SOIL BORING LOG

SOIL BORING #12719-GW2D  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC  
TERRY PROJECT #: 2230.8I  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY

DRILLING COMPANY: TERRY EXPLORATION, LLC.  
DRILLER: JOHN S KERR (CERT #2128B)  
FIELD PERSONNEL: H. MILES  
START DATE: 01/26/2018 FINISH DATE: 01/26/2018

TERMINATION DEPTH: 55 FT BGS  
WATER LEVEL: EST 28 FT BGS  
ABANDONMENT METHOD: GROUT  
SAMPLE RETRIEVED: 51-55 FT BGS

| Depth Scale | Sample | Odor | PID/OVA | Moisture Content | Lithology | Water Level | BORING ABANDONMENT |
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|
|-------------|--------|------|---------|------------------|-----------|-------------|--------------------|

|  |  |  |  |  |  |  |   |
|--|--|--|--|--|--|--|---|
| 0<br>5<br>10<br>15<br>20<br>25<br>30<br>35<br>40<br>45<br>50<br>55 |  |  |  |  | <p>WATER SAMPLES WERE COLLECTED AT A DEPTH OF 50FT AND 55FT. THE SAMPLES WERE SUBMITTED TO A SCDHEC CERTIFIED LABORATORY FOR QUICKSCREEN ANALYSIS AND CONFIRMATION ANALYSIS. NO SOIL SAMPLES WERE COLLECTED.</p> |  | <p>PORTLAND NEAT CEMENT FROM END OF BORING TO GROUND SURFACE.</p> |
|--|--|--|--|--|--|--|---|



































## **APPENDIX E**

### **Well Completion Logs/SCDHEC 1903 Forms**



**WELL LOG**

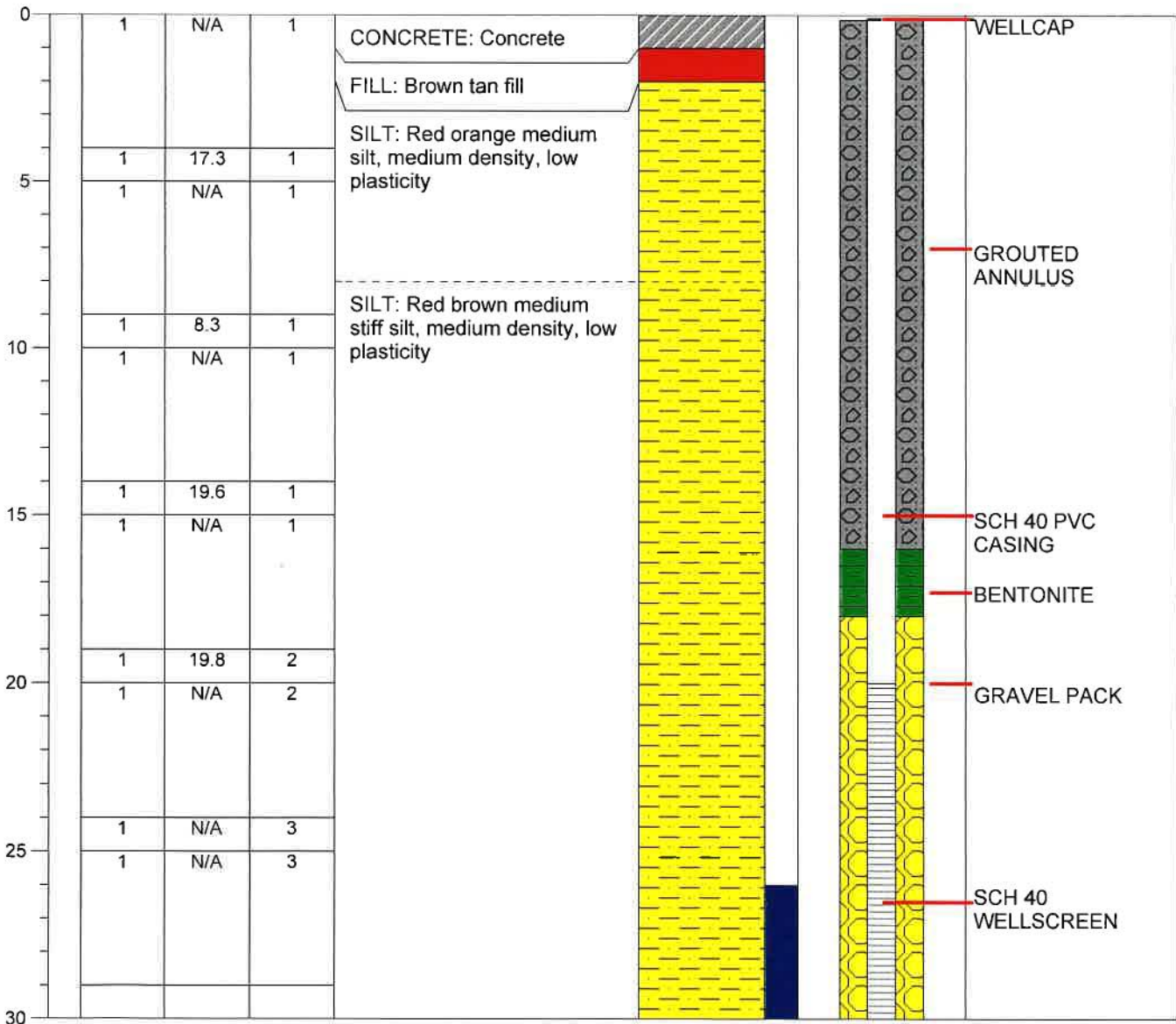
MONITORING WELL #: 12719-MW2R  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.8I  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: HUNTER MILES  
START DATE: 5/09/2018 FINISH DATE: 5/09/2018  
DRILLING COMPANY: SAEDACCO  
DRILLER: ROBERT MILLER (CERT# 1472B)  
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"  
CASING DIAMETER: 2"  
SCREEN DIAMETER: 2"  
TOP OF CASING ELEVATION: 889.25  
WATER LEVEL: 26  
EASTING: 362.0306  
NORTHING: 378.2061  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-20.0 FT TOC Bentonite Interval 16.0 - 18.0 FT BGS Filter Interval 18.0-30.0 FT BGS  
Screen Interval 20.0-30.0 FT TOC Grout Interval 0-16.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|





**WELL LOG**

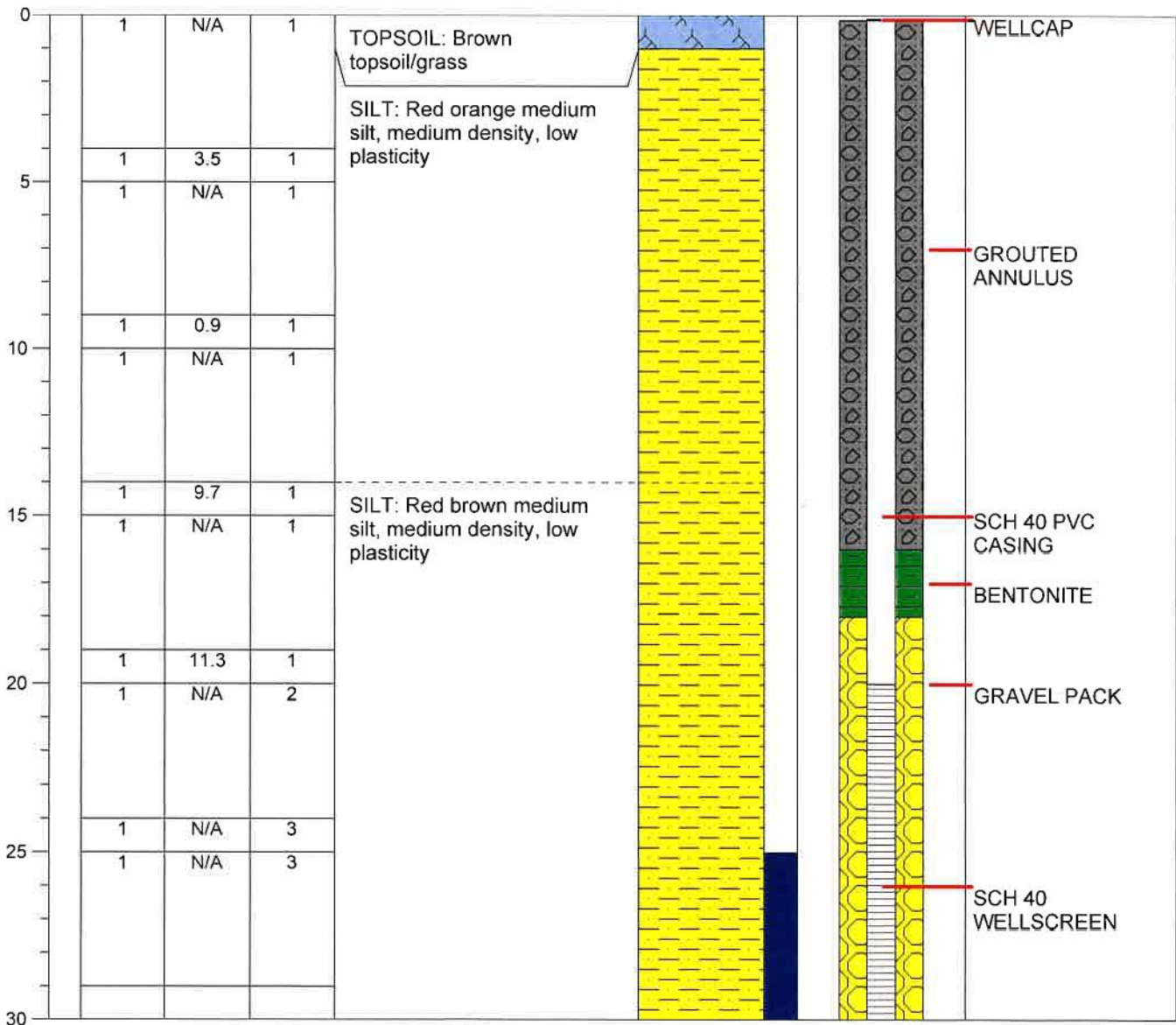
MONITORING WELL #: 12719-MW8R  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.8I  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: HUNTER MILES  
START DATE: 5/10/2018 FINISH DATE: 5/10/2018  
DRILLING COMPANY: SAEDACCO  
DRILLER: ROBERT MILLER (CERT# 1472B)  
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"  
CASING DIAMETER: 2"  
SCREEN DIAMETER: 2"  
TOP OF CASING ELEVATION: 888.01  
WATER LEVEL: 25  
EASTING: 389.1269  
NORTHING: 433.7298  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-20.0 FT TOC Bentonite Interval 18.0-16.0 FT BGS Filter Interval 18.0-30.0 FT BGS  
Screen Interval 20.0-30.0 FT TOC Grout Interval 0-16.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|





**WELL LOG**

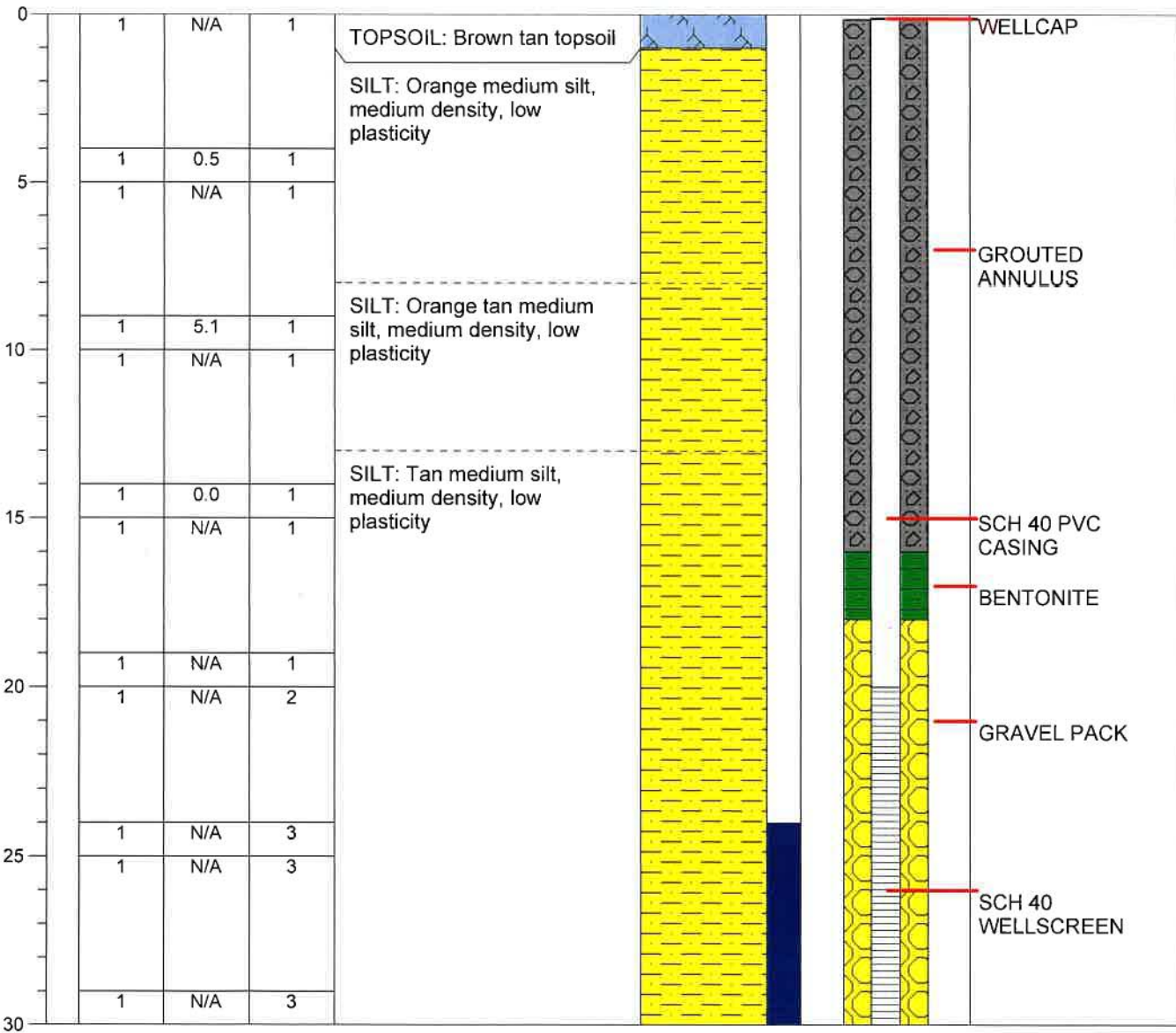
MONITORING WELL #: 12719-MW17  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: TRAVIS DARDEN  
START DATE: 05/07/2018 FINISH DATE: 05/07/2018  
DRILLING COMPANY: SAEDACCO  
DRILLER: BRIAN EWING (CERT# 1947D)  
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"  
CASING DIAMETER: 2"  
SCREEN DIAMETER: 2"  
TOP OF CASING ELEVATION: 881.76  
WATER LEVEL: 24  
EASTING: 223.2022  
NORTHING: 175.2201  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-20.0 FT TOC Bentonite Interval 16.0-18.0 FT BGS Filter Interval 18.0-30.0 FT BGS  
Screen Interval 20.0-30.0 FT TOC Grout Interval 0-16.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|





**WELL LOG**

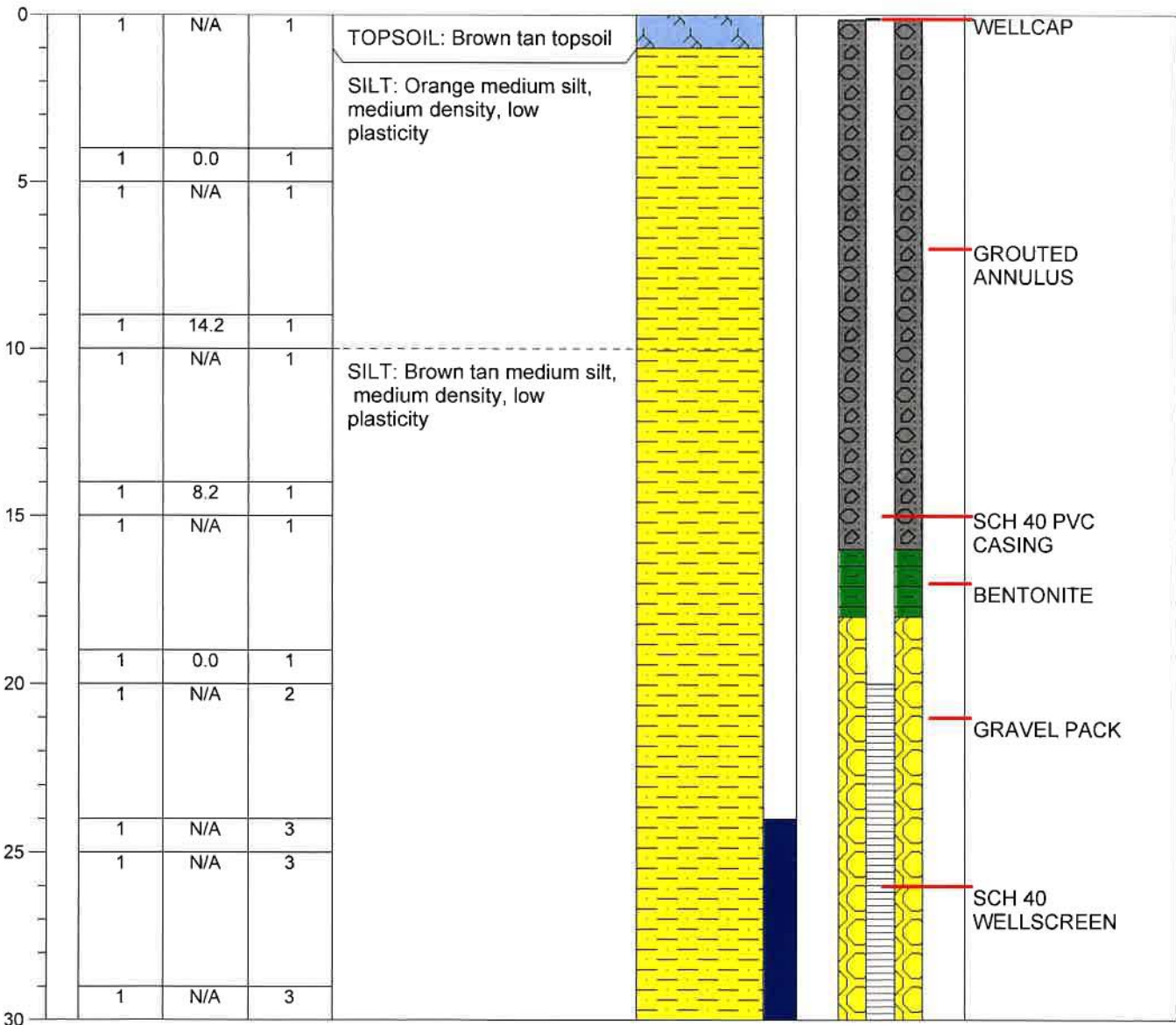
MONITORING WELL #: 12719-MW18  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: TRAVIS DARDEN  
START DATE: 05/07/2018 FINISH DATE: 05/07/2018  
DRILLING COMPANY: SAEDACCO  
DRILLER: BRIAN EWING (CERT# 1947D)  
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"  
CASING DIAMETER: 2"  
SCREEN DIAMETER: 2"  
TOP OF CASING ELEVATION: 879.53  
WATER LEVEL: 24  
EASTING: 208.2599  
NORTHING: 153.533  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-20.0 FT TOC Bentonite Interval 16.0-18.0 FT BGS Filter Interval 18.0-30.0 FT BGS  
Screen Interval 20.0-30.0 FT TOC Grout Interval 0-16.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|





**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

**WELL LOG**

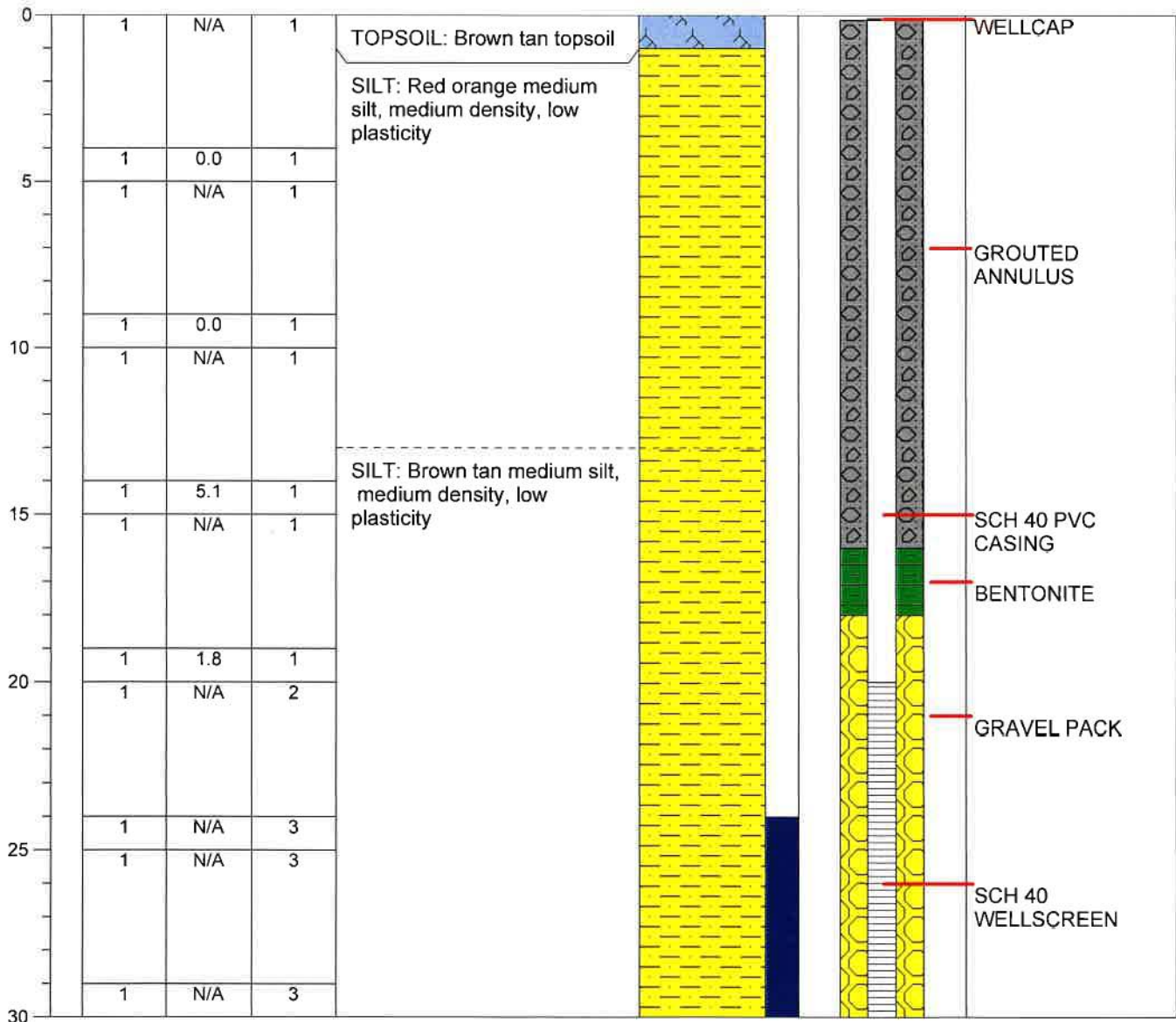
MONITORING WELL #: 12719-MW19  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: TRAVIS DARDEN  
START DATE: 05/07/2018 FINISH DATE: 05/07/2018  
DRILLING COMPANY: SAEDACCO  
DRILLER: BRIAN EWING (CERT# 1947D)  
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"  
CASING DIAMETER: 2"  
SCREEN DIAMETER: 2"  
TOP OF CASING ELEVATION: 880.71  
WATER LEVEL: 24  
EASTING: 162.5037  
NORTHING: 239.2319  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-20.0 FT TOC Bentonite Interval 16.0-18.0 FT BGS Filter Interval 18.0-30.0 FT BGS  
Screen Interval 20.0-30.0 FT TOC Grout Interval 0-16.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|





**WELL LOG**

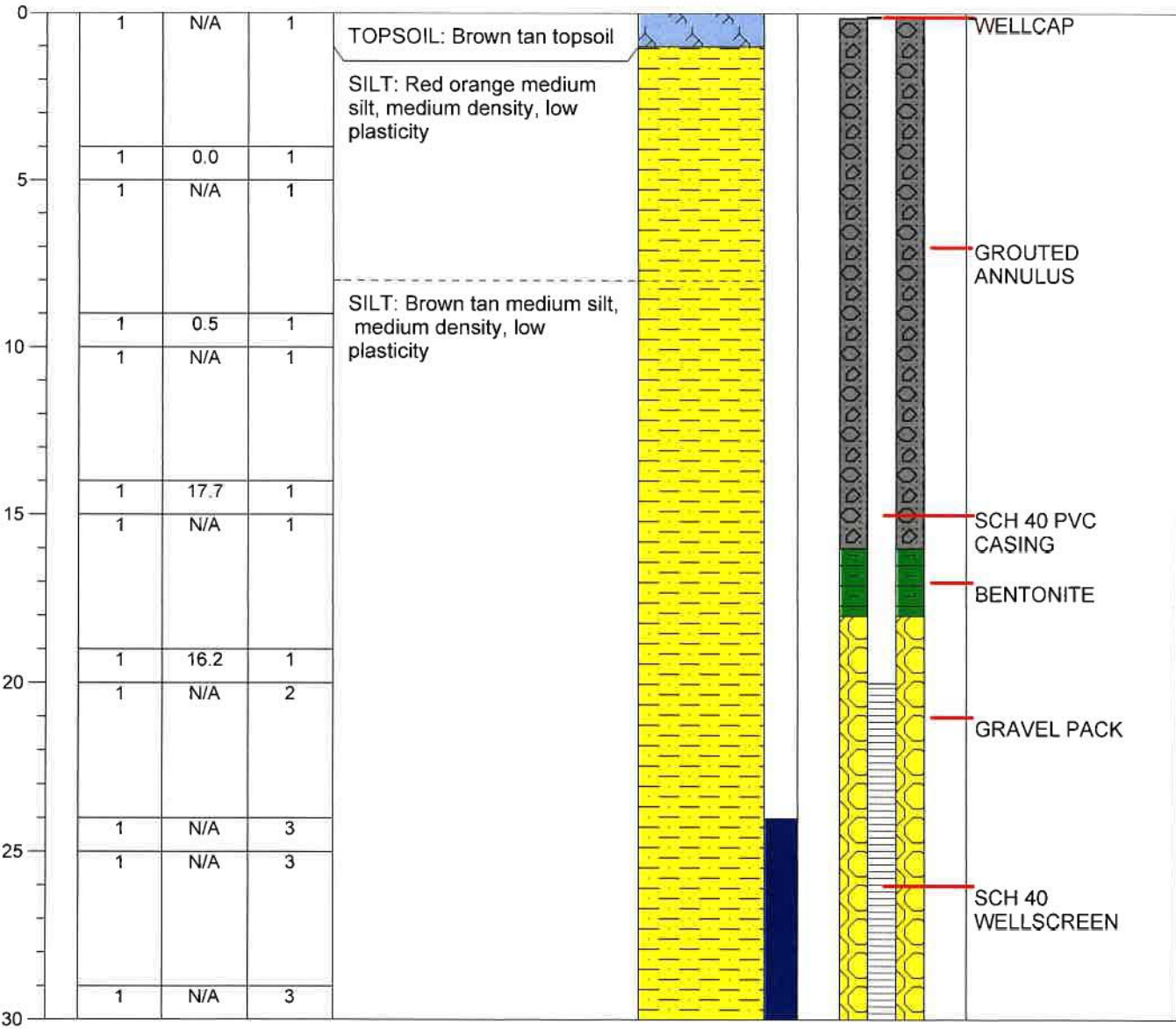
MONITORING WELL #: 12719-MW20  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: HUNTER MILES  
START DATE: 5/07/2018 FINISH DATE: 5/07/2018  
DRILLING COMPANY: SAEDACCO  
DRILLER: BRIAN EWING (CERT# 1947D)  
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"  
CASING DIAMETER: 2"  
SCREEN DIAMETER: 2"  
TOP OF CASING ELEVATION: 880.36  
WATER LEVEL: 24  
EASTING: 157.957  
NORTHING: 208.9318  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-20.0 FT TOC Bentonite Interval 16.0-18.0 FT BGS Filter Interval 18.0-30.0 FT BGS  
Screen Interval 20.0-30.0 FT TOC Grout Interval 0-16.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|





**WELL LOG**

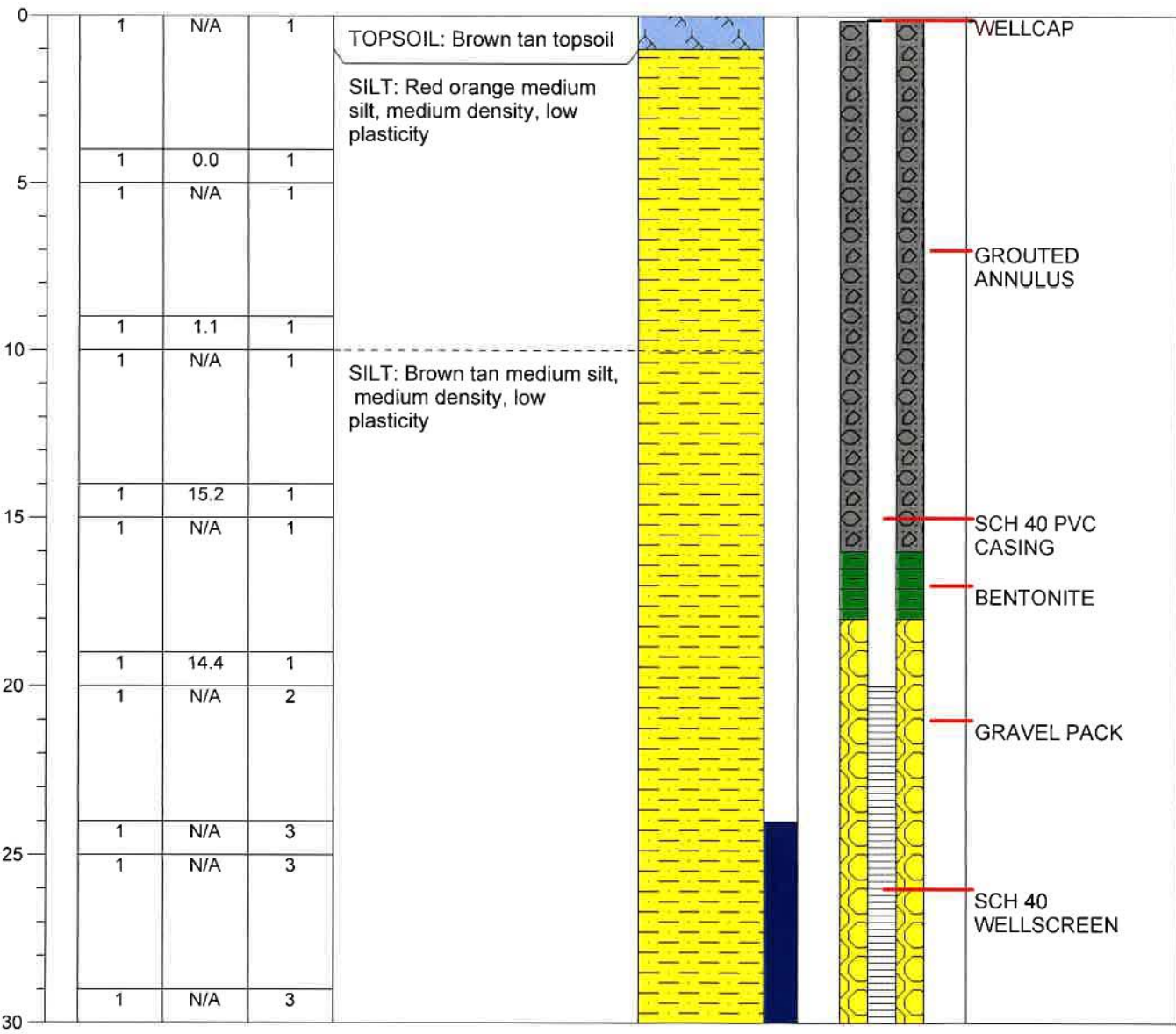
MONITORING WELL #: 12719-MW21  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: HUNTER MILES  
START DATE: 05/07/2018 FINISH DATE: 05/07/2018  
DRILLING COMPANY: SAEDACCO  
DRILLER: BRIAN EWING (CERT# 1947D)  
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"  
CASING DIAMETER: 2"  
SCREEN DIAMETER: 2"  
TOP OF CASING ELEVATION: 879.02  
WATER LEVEL: 24  
EASTING: 157.1564  
NORTHING: 168.1128  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-20.0 FT TOC Bentonite Interval 16.0-18.0 FT BGS Filter Interval 18.0-30.0 FT BGS  
Screen Interval 20.0-30.0 FT TOC Grout Interval 0-16.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|







**WELL LOG**

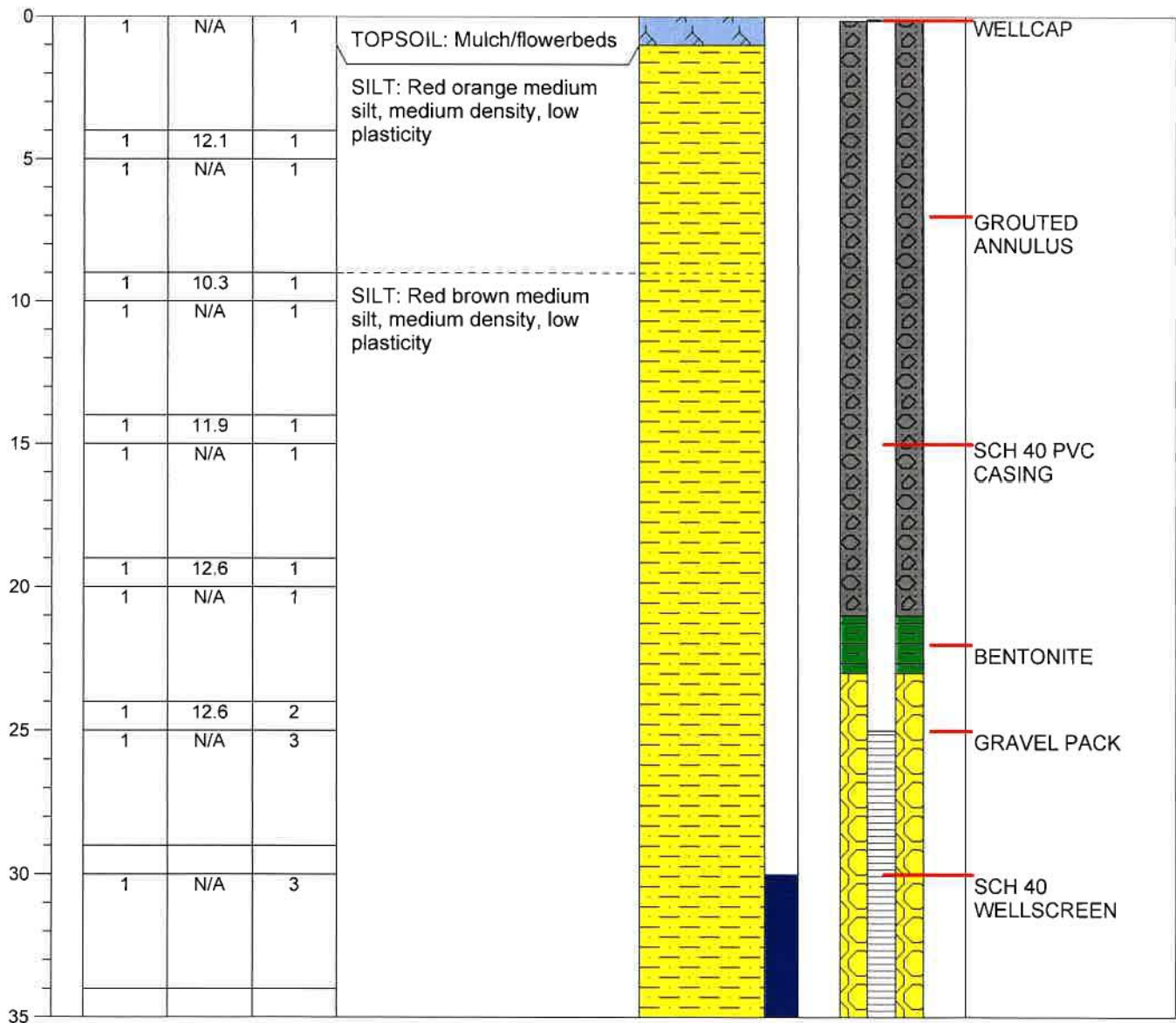
MONITORING WELL #: 12719-MW22  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: HUNTER MILES  
START DATE: 5/10/2018 FINISH DATE: 5/10/2018  
DRILLING COMPANY: SAEDACCO  
DRILLER: ROBERT MILLER (CERT# 1472B)  
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"  
CASING DIAMETER: 2"  
SCREEN DIAMETER: 2"  
TOP OF CASING ELEVATION: 892.06  
WATER LEVEL: 30  
EASTING: 374.264  
NORTHING: 295.3619  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-25.0 FT TOC Bentonite Interval 21.0-23.0 FT BGS Filter Interval 23.0-35.0 FT BGS  
Screen Interval 25.0-35.0 FT TOC Grout Interval 0-21.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|





**WELL LOG**

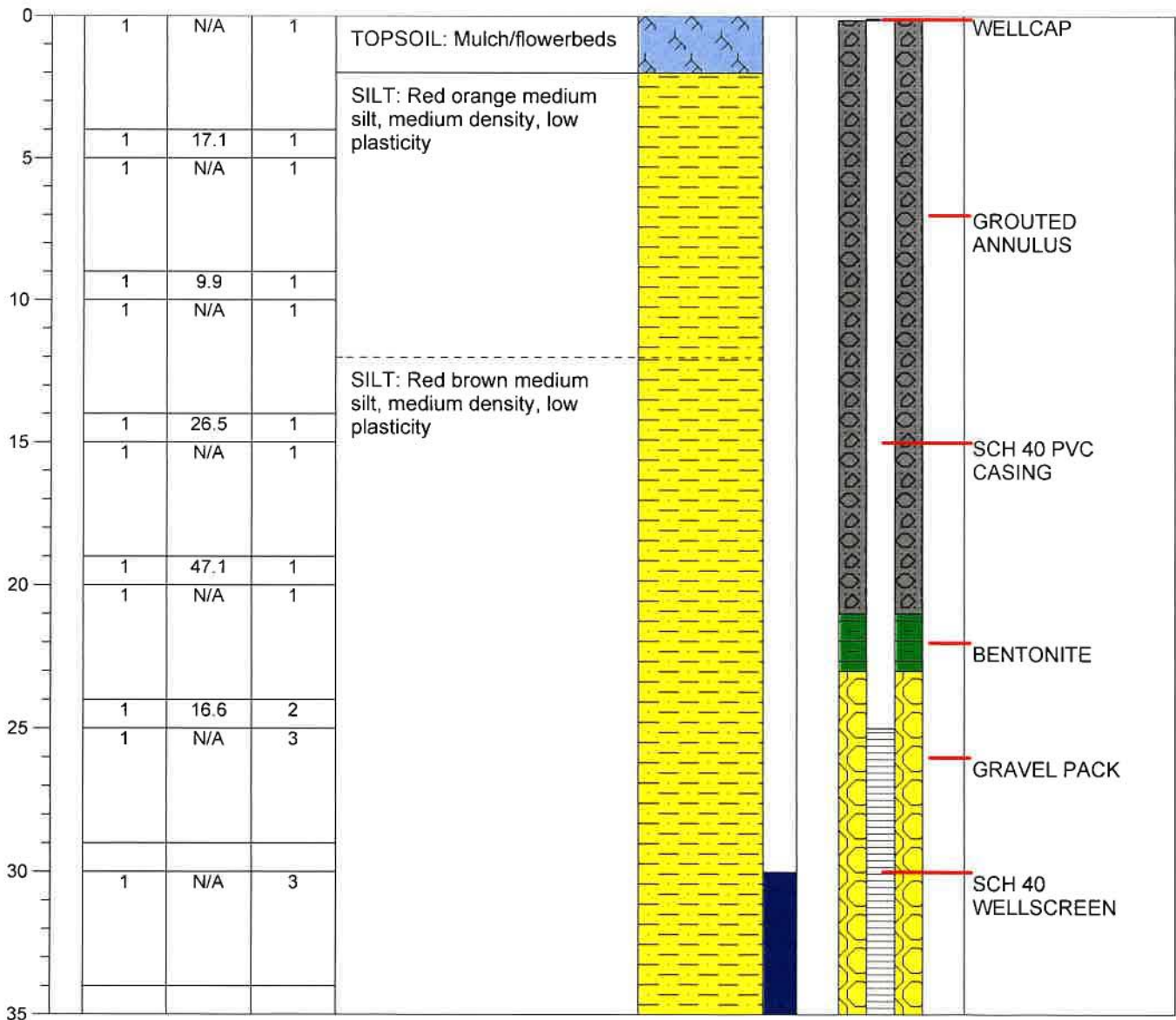
MONITORING WELL #: 12719-MW23  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: HUNTER MILES  
START DATE: 5/10/2018 FINISH DATE: 5/10/2018  
DRILLING COMPANY: SAEDACCO  
DRILLER: ROBERT MILLER (CERT# 1472B)  
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"  
CASING DIAMETER: 2"  
SCREEN DIAMETER: 2"  
TOP OF CASING ELEVATION: 890.38  
WATER LEVEL: 30  
EASTING: 334.8485  
NORTHING: 273.0183  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-25.0 FT TOC Bentonite Interval 21.0-23.0 FT BGS Filter Interval 23.0-35.0 FT BGS  
Screen Interval 25.0-35.0 FT TOC Grout Interval 0-21.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|





**WELL LOG**

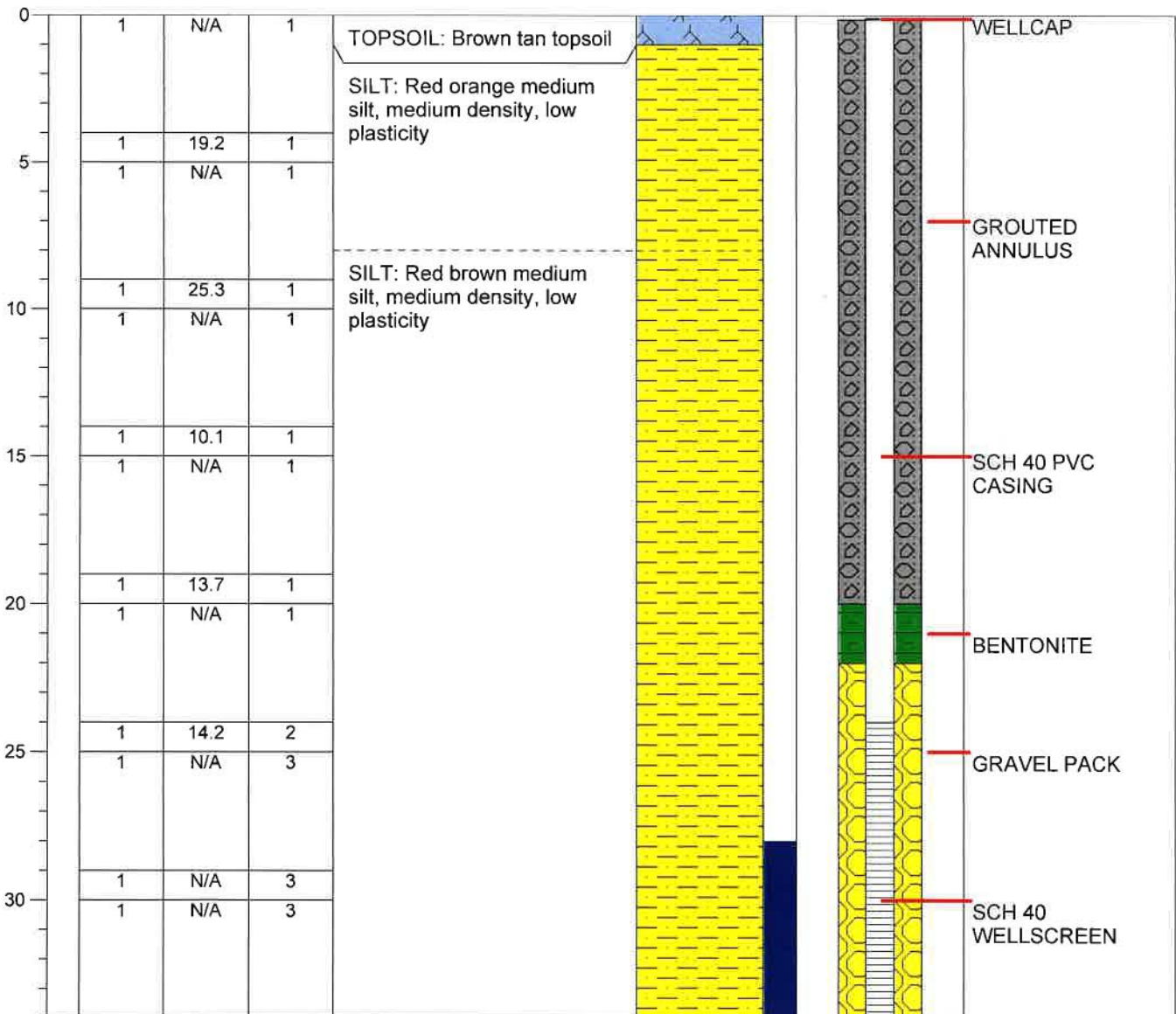
MONITORING WELL #: 12719-MW24  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: HUNTER MILES  
START DATE: 5/11/2018 FINISH DATE: 5/11/2018  
DRILLING COMPANY: SAEDACCO  
DRILLER: ROBERT MILLER (CERT# 1472B)  
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"  
CASING DIAMETER: 2"  
SCREEN DIAMETER: 2"  
TOP OF CASING ELEVATION: 883.91  
WATER LEVEL: 28  
EASTING: 221.0699  
NORTHING: 219.8999  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-24.0 FT TOC Bentonite Interval 20.0-22.0 FT BGS Filter Interval 22.0-34.0 FT BGS  
Screen Interval 24.0-34.0 FT TOC Grout Interval 0-20.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|





**WELL LOG**

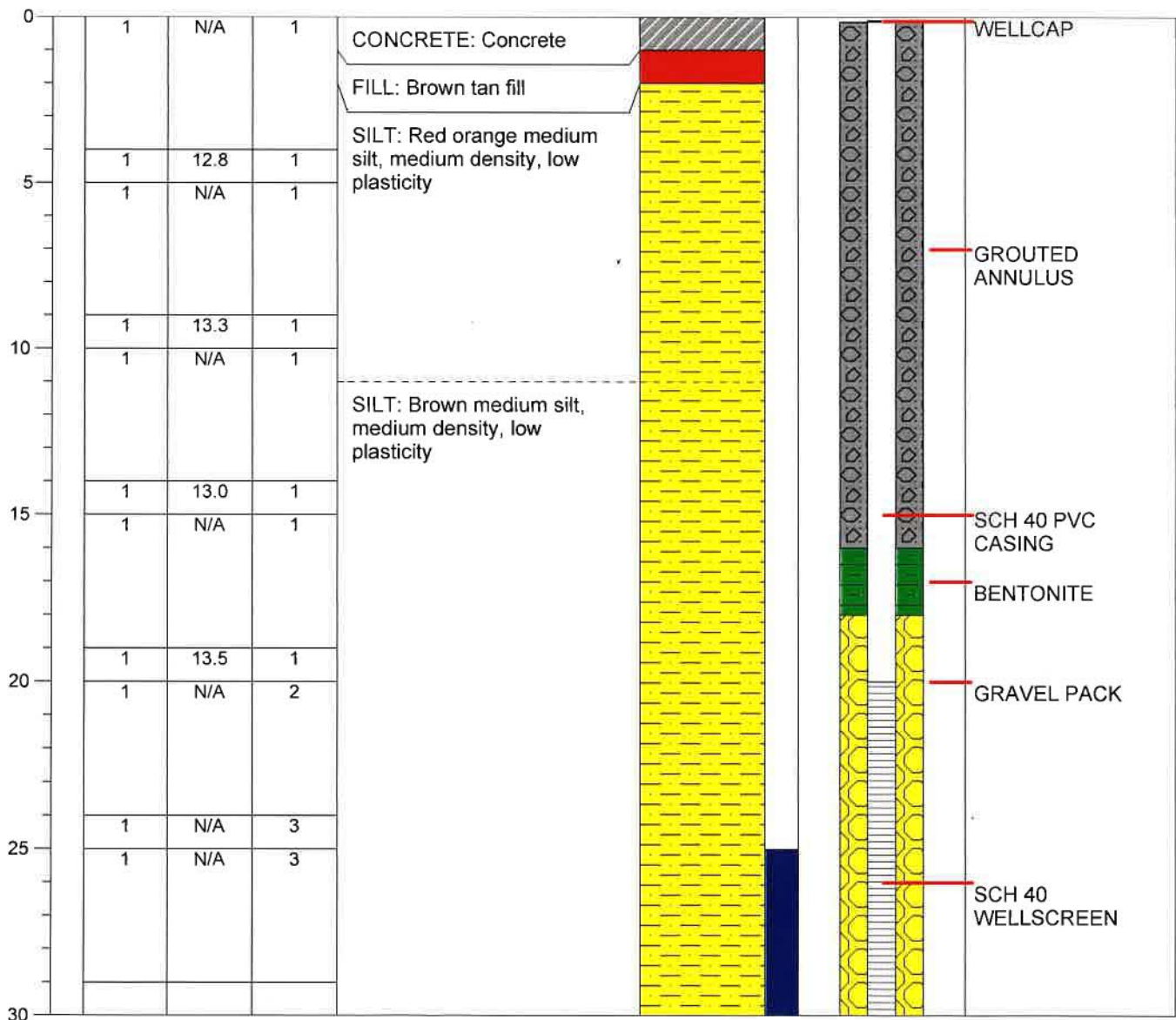
MONITORING WELL #: 12719-MW25  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.8I  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: HUNTER MILES  
START DATE: 5/10/2018 FINISH DATE: 5/10/2018  
DRILLING COMPANY: SAEDACCO  
DRILLER: ROBERT MILLER (CERT# 1472B)  
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"  
CASING DIAMETER: 2"  
SCREEN DIAMETER: 2"  
TOP OF CASING ELEVATION: 881.63  
WATER LEVEL: 25  
EASTING: 212.9793  
NORTHING: 270.0664  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-20.0 FT TOC Bentonite Interval 18.0-16.0 FT BGS Filter Interval 18.0-30.0 FT BGS  
Screen Interval 20.0-30.0 FT TOC Grout Interval 0-16.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|





**WELL LOG**

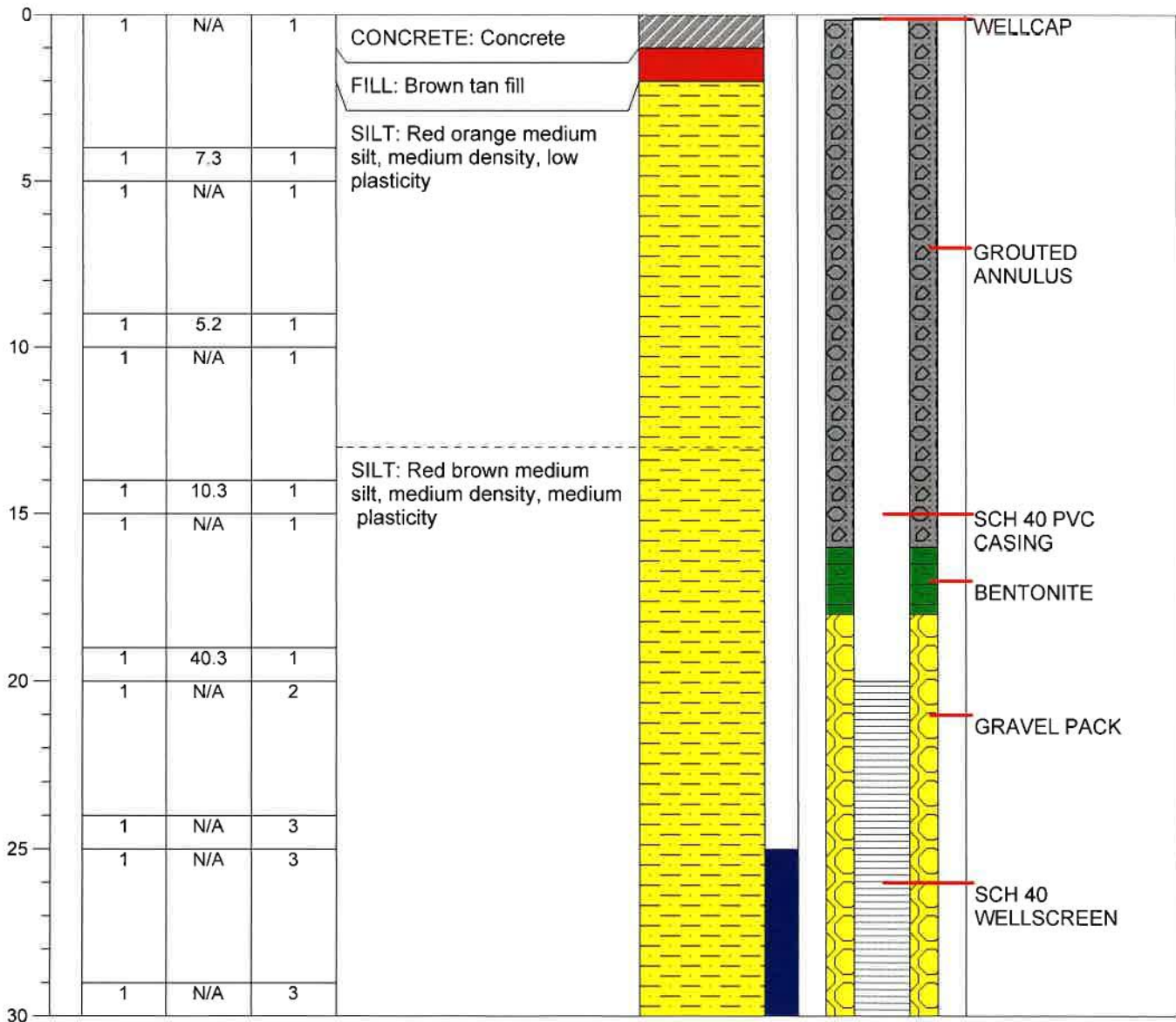
MONITORING WELL #: 12719-RW1  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: HUNTER MILES  
START DATE: 05/09/2018 FINISH DATE: 05/09/2018  
DRILLING COMPANY: SAEDACCO  
DRILLER: ROBERT MILLER (CERT# 1472B)  
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"  
CASING DIAMETER: 4"  
SCREEN DIAMETER: 4"  
TOP OF CASING ELEVATION: 889.73  
WATER LEVEL: 26  
EASTING: 364.9141  
NORTHING: 371.3675  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-20.0 FT TOC Bentonite Interval 16.0-18.0 FT BGS Filter Interval 18.0-30.0 FT BGS  
Screen Interval 20.0-30.0 FT TOC Grout Interval 0-16.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|





**WELL LOG**

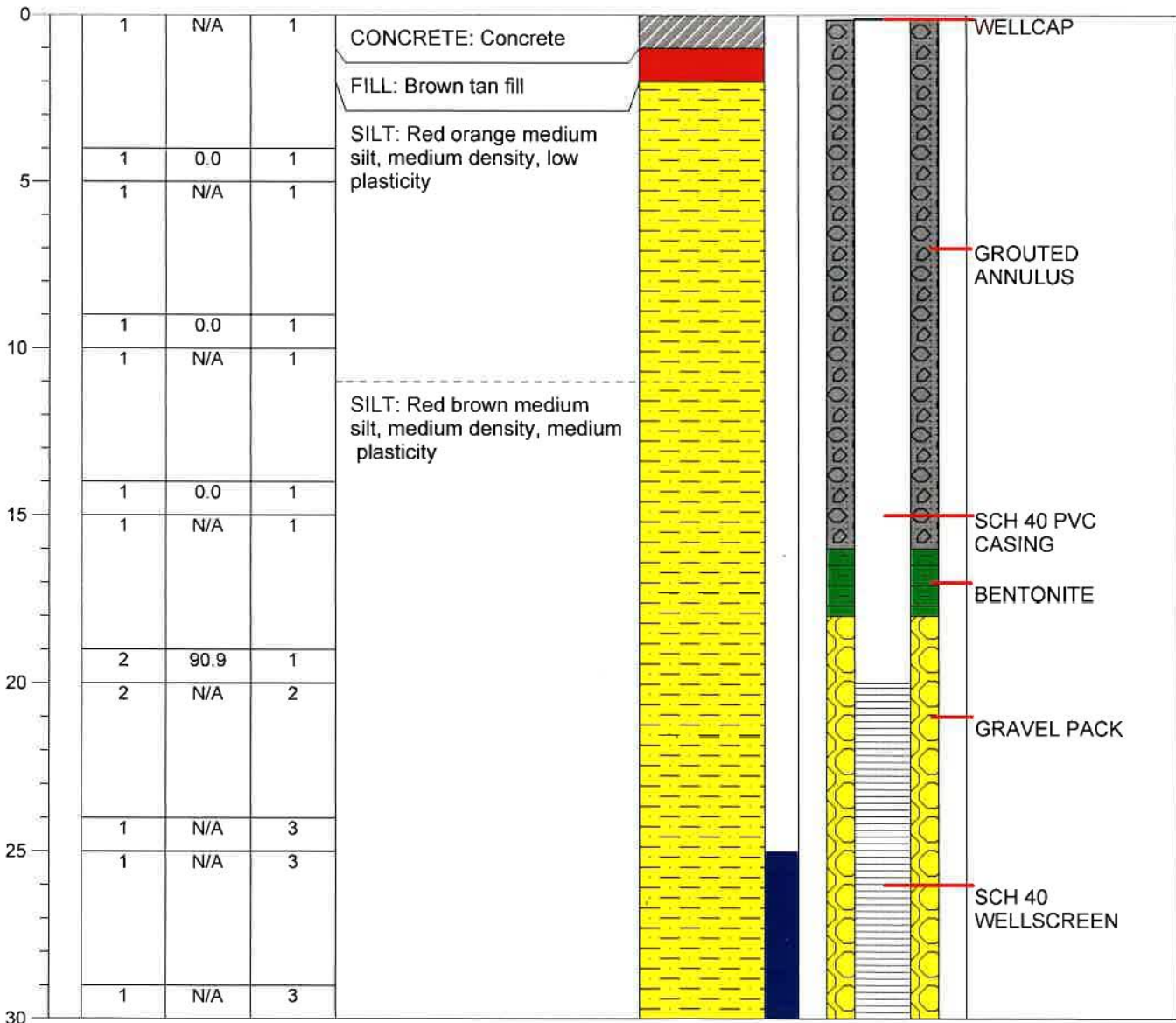
MONITORING WELL #: 12719-RW2  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: HUNTER MILES  
START DATE: 05/08/2018 FINISH DATE: 05/08/2018  
DRILLING COMPANY: SAEDACCO  
DRILLER: ROBERT MILLER (CERT# 1472B)  
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"  
CASING DIAMETER: 4"  
SCREEN DIAMETER: 4"  
TOP OF CASING ELEVATION: 889.52  
WATER LEVEL: 26  
EASTING: 372.3276  
NORTHING: 366.8818  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-20.0 FT TOC Bentonite Interval 16.0-18.0 FT BGS Filter Interval 18.0-30.0 FT BGS  
Screen Interval 20.0-30.0 FT TOC Grout Interval 0-16.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|





**TERRY ENVIRONMENTAL SERVICES**

*Clients First Always™*  
WWW.TERRYENVIRONMENTAL.COM

**WELL LOG**

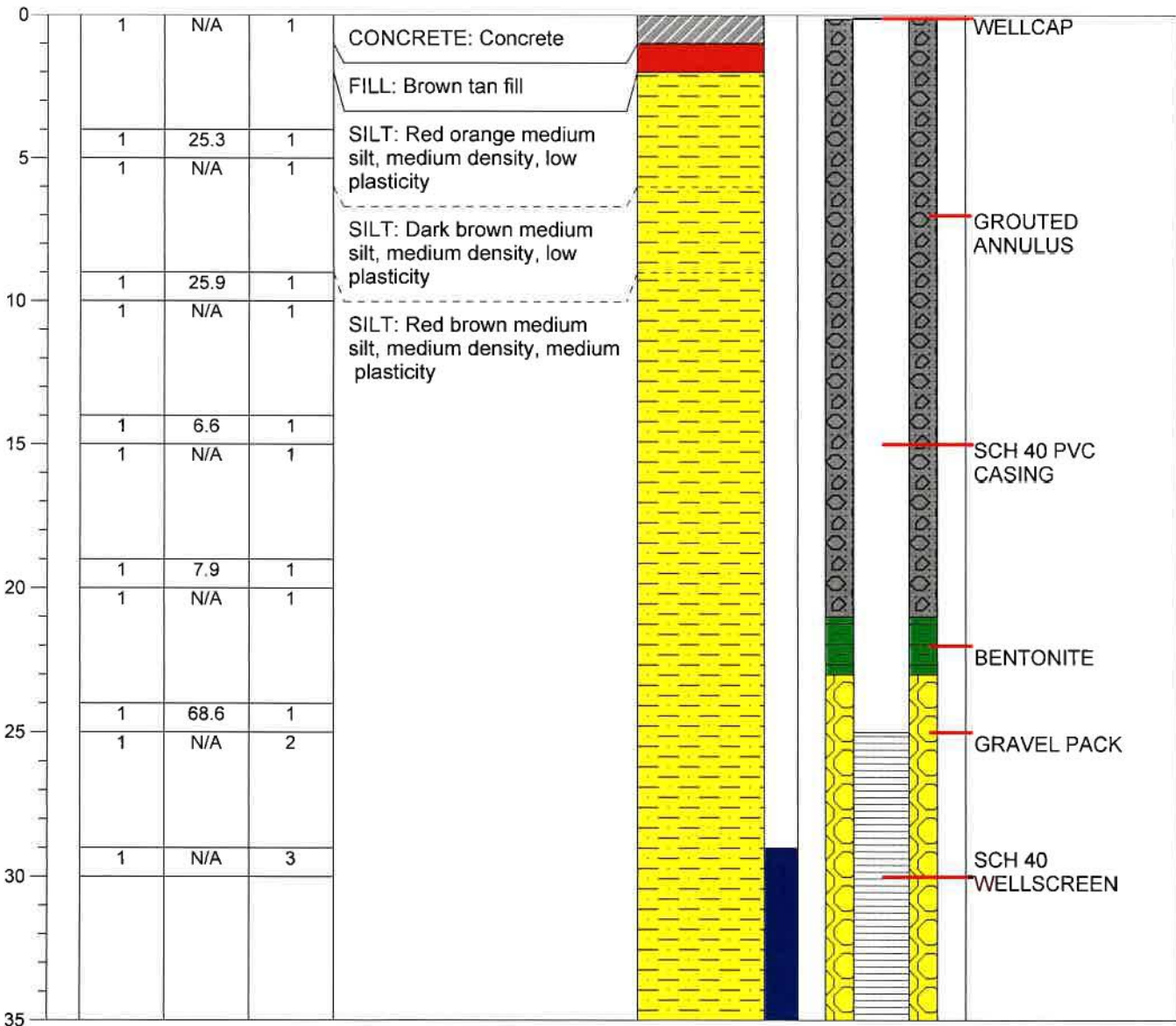
MONITORING WELL #: 12719-RW3  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: HUNTER MILES  
START DATE: 05/08/2018 FINISH DATE: 05/08/2018  
DRILLING COMPANY: SAEDACCO  
DRILLER: ROBERT MILLER (CERT# 1472B)  
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"  
CASING DIAMETER: 4"  
SCREEN DIAMETER: 4"  
TOP OF CASING ELEVATION: 890.37  
WATER LEVEL: 29  
EASTING: 348.9615  
NORTHING: 311.698  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-25.0 FT TOC Bentonite Interval 21.0-23.0 FT BGS Filter Interval 23.0-35.0 FT BGS  
Screen Interval 25.0-35.0 FT TOC Grout Interval 0-21.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|





**WELL LOG**

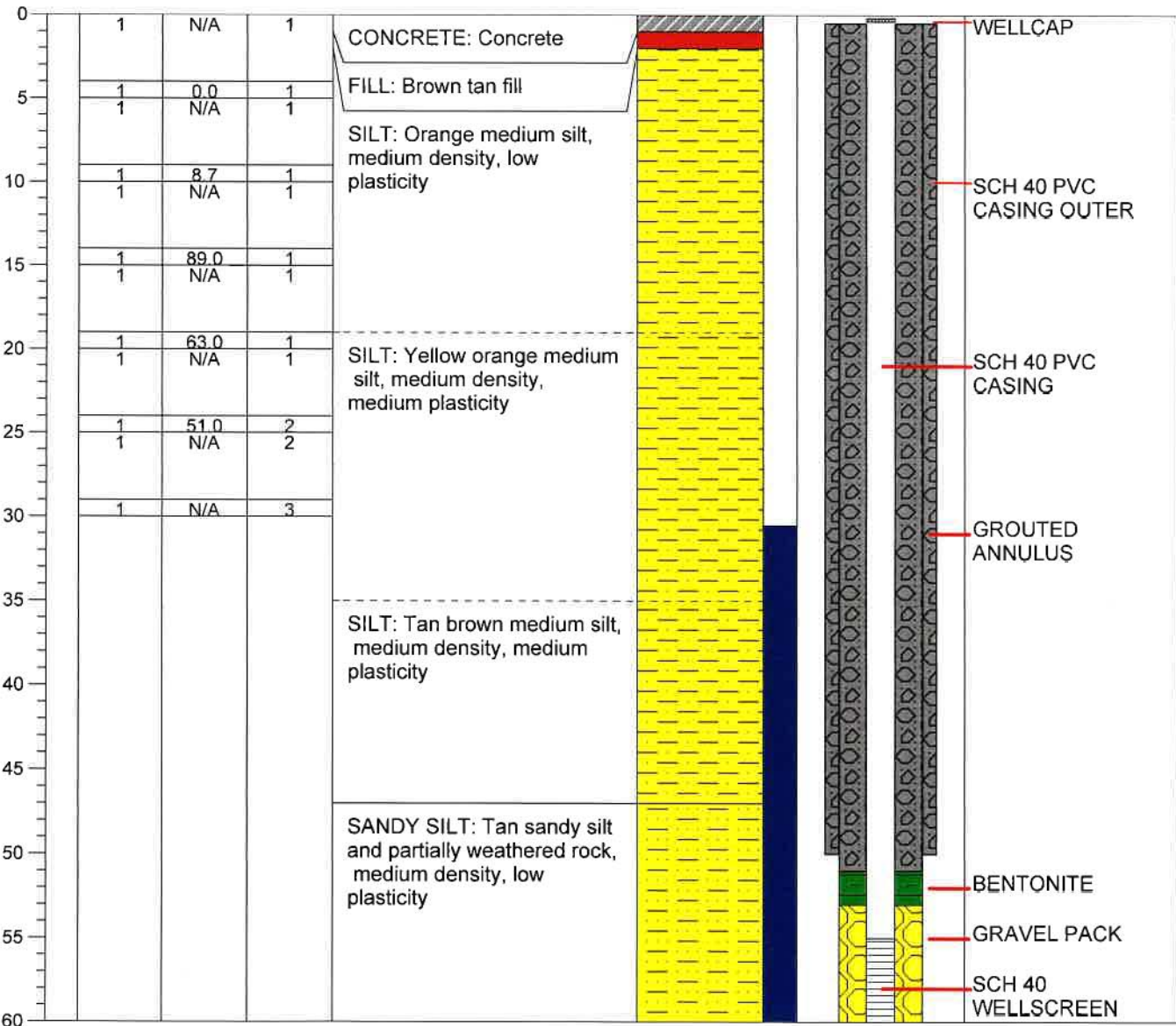
MONITORING WELL #: 12719-DW2  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: TRAVIS DARDEN  
START DATE: 05/07/2018 FINISH DATE: 05/11/2018  
DRILLING COMPANY: SAEDACCO  
DRILLER: ROBERT MILLER (CERT# 1472B)  
DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY

HOLE DIAMETER: 8"  
CASING DIAMETER: 6 1/2"  
SCREEN DIAMETER: 2"  
TOP OF CASING ELEVATION: 887.23  
WATER LEVEL: 30.5 FT BGS  
EASTING: 243.5006  
NORTHING: 269.1532  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-55.0 FT TOC Bentonite Interval 51.0-53.0 FT BGS Filter Interval 53.0-60.0 FT BGS  
Screen Interval 55.0-60.0 FT TOC Grout Interval 0-51.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|







**WELL LOG**

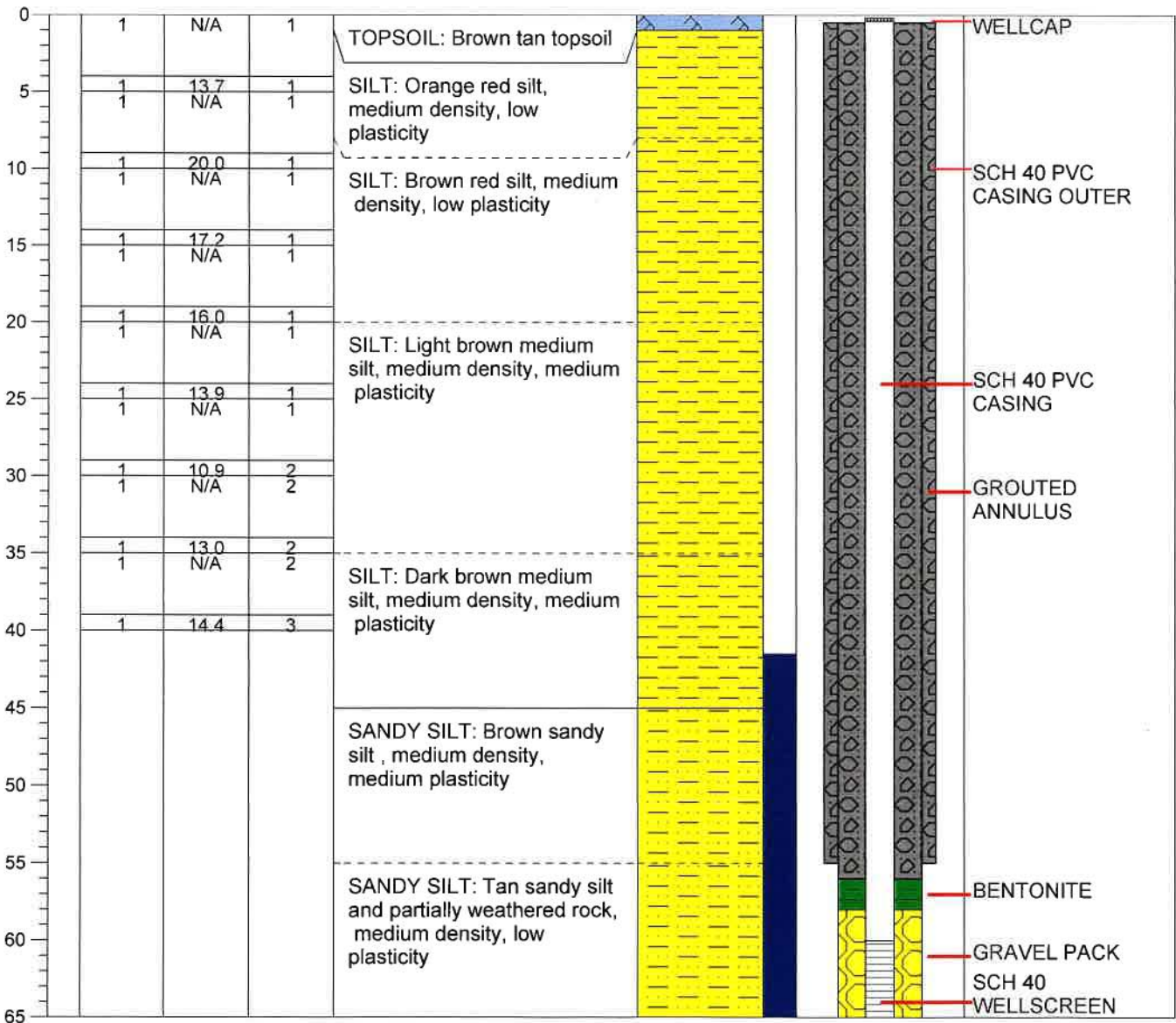
MONITORING WELL #: 12719-DW3  
TERRY PROJECT: HOT SPOT #3005  
PROJECT LOCATION: CHESNEE, SC

TERRY PROJECT #: 2230.81  
SCDHEC SITE ID #: 12719  
CLIENT: R. L. JORDAN OIL COMPANY  
FIELD PERSONNEL: HUNTER MILES  
START DATE: 05/08/2018 FINISH DATE: 05/11/2018  
DRILLING COMPANY: SAEDACCO  
DRILLER: ROBERT MILLER (CERT# 1472B)  
DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY

HOLE DIAMETER: 8"  
CASING DIAMETER: 6 1/2"  
SCREEN DIAMETER: 2"  
TOP OF CASING ELEVATION: 883.42  
WATER LEVEL: 41.5 FT BGS  
EASTING: 222.6168  
NORTHING: 218.9417  
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-60.0 FT TOC Bentonite Interval 56.0-58.0 FT BGS Filter Interval 58.0-65.0 FT BGS  
Screen Interval 60.0-65.0 FT TOC Grout Interval 0-56.0 FT BGS Filter Material SAND

| Depth Scale | Sample Zone | Odor<br>1=none<br>2=slight<br>3=strong | OVA<br>Reading | Moisture<br>1=dry<br>2=moist<br>3=wet | Lithology | Water Level | Well Construction |
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|
|-------------|-------------|--|----------------|---------------------------------------|-----------|-------------|-------------------|







Water Well Record
Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: RL Jordan Oil Company of NC
Address: P.O. Box 2527
City: Spartanburg State: SC Zip: 29304

7. PERMIT NUMBER: UMW-26773
8. USE:
Residential, Public Supply, Process, Irrigation, Air Conditioning, Emergency, Test Well, Monitor Well, Replacement

2. LOCATION OF WELL: COUNTY: Spartanburg
Name: Hot Spot #3005
Street Address: 107 Hampton St
City: Chesnee, SC Zip: 29323

9. WELL DEPTH (completed) 30' ft
Date Started: 5-10-2018
Date Completed: 5-10-2018

10. CASING: Threaded, Welded
Diam.: 2"
Type: PVC, Galvanized, Steel, Other
Height: Above/Below Surface
Weight: lb./ft.
Drive Shoe? Yes No

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
12719- MW# MW-8R

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01 Length: 10'
Set Between: 20' ft. and 30' ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis Yes (please enclose) No

4. ABANDONMENT: Yes No
Give Details Below
Grouted Depth: from ft. to ft.

12. STATIC WATER LEVEL 25 ft. below land surface after 24 hours

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum. Rows include Orange Silt and Lite Brown silt.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs. Pumping G.P.M.
Pumping Test: Yes (please enclose) No
Yield:

14. WATER QUALITY
Chemical Analysis Yes No Bacterial Analysis Yes No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) Yes No
Installed from 18' ft. to 30' ft.
Effective size 20/30 Uniformity Coefficient

16. WELL GROUDED? Yes No
Neat Cement, Bentonite, Bentonite/Cement, Other
Depth: From 0 ft. to 16' ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected Yes No Type: Amount:

18. PUMP: Date installed: Not installed
Mfr. Name: Model No.:
H.P. Volts Length of drop pipe ft. Capacity gpm
TYPE: Submersible, Jet (shallow), Turbine, Jet (deep), Reciprocating, Centrifugal

19. WELL DRILLER: Robert Miller CERT. NO.: 1472
Address: (Print) Level: A B C D (circle one)
SAEDACCO
9088 Northfield Drive
Fort Mill, SC 29707
Telephone No.: (803) 548-2180 Fax No.: (803) 548-2181

\*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

5. REMARKS:
Two feet bentonite seal from 16' to 18'

Signed: Robert Miller Date: 5/13/2018
Well Driller

6. TYPE: Mud Rotary, Jetted, Bored, Dug, Air Rotary, Driven, Cable tool, Other

If D Level Driller, provide supervising driller's name:



































**Well Development Data Verification Form**  
**Underground Storage Tank Management Division**

Facility Name: Hot Spot #3005 Site ID#: 12719  
 Date: 5/11/15 Field Personnel: Hunter Miles  
 Drilling Company: SAEDACCO Driller's Name: Robert Miller  
 Driller's Certification Number: 1972 Weather Conditions: overcast 80°

Well Development Method

Surge Block  Submersible Pump  Air Lifting

\* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

|                          |                    |                   |                  |
|--------------------------|--------------------|-------------------|------------------|
| pH meter                 | Conductivity meter | Temperature meter | Turbidity meter  |
| serial no. <u>Horiba</u> | serial no. _____   | serial no. _____  | serial no. _____ |
| pH=4.0 <u>56RAKCOE</u>   | standard _____     |                   | NTU=0.0 _____    |
| pH=7.0 _____             |                    |                   | NTU=1.0 _____    |
| pH=10.0 _____            |                    |                   | NTU=10.0 _____   |

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# MW-22 Well Casing Diameter 2 inches Borehole Diameter 4 inches  
 Depth to Ground Water (DGW) 26.33 ft. Screen Length/Slot Size 10 ft./ 10 in.  
 Total Well Depth (TWD) 30.0 ft. Screen Interval 20.0 ft. to 30.0 ft.  
 Length of water column (LWC=TWD-DGW) 3.67 ft. Type of Drilling Fluids used: —  
 Total Gallons of Water Removed: 20.0 gals. Drilling Fluids recovered \_\_\_\_\_ gals.

|                                       |                    |                    |                    |                    |      |      |      |
|---------------------------------------|--------------------|--------------------|--------------------|--------------------|------|------|------|
| Time (military)                       | <u>1001</u>        | <u>1015</u>        | <u>1030</u>        | <u>1045</u>        |      |      |      |
| pH (s.u.)*                            | <u>5.90</u>        | <u>5.80</u>        | <u>5.79</u>        | <u>5.80</u>        |      |      |      |
| Specific Conductivity (mmhos/cm)*     | <u>0.304</u>       | <u>0.305</u>       | <u>0.304</u>       | <u>0.305</u>       |      |      |      |
| Water Temperature (C)*                | <u>23.4</u>        | <u>25.5</u>        | <u>25.5</u>        | <u>25.5</u>        |      |      |      |
| Turbidity (NTU) *                     | <u>28.9</u>        | <u>22.8</u>        | <u>14.4</u>        | <u>9.5</u>         |      |      |      |
| Physical Characteristics (color/odor) | <u>transparent</u> | <u>transparent</u> | <u>transparent</u> | <u>transparent</u> |      |      |      |
| Water Level Measurement (ft) from TOC |                    |                    |                    | <u>29.01</u>       |      |      |      |
| Total Well Depth (ft) from TOC        |                    |                    |                    | <u>30.0</u>        |      |      |      |
| Cumulative Gallons Removed            | <u>5.0</u> gals    | <u>10.0</u> gals   | <u>15.0</u> gals   | <u>20.0</u> gals   | gals | gals | gals |

\* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: well was gauged (DGW + TWD). submersible pump and surge block was inserted to well in alternation. Parameters were taken on Horiba. Process was repeated until purge water met development parameters

Driller Signature: Robert Miller Date: 5-11-2015



**Well Development Data Verification Form  
Underground Storage Tank Management Division**

Facility Name: Hot Spot #3005 Site ID#: 12719  
 Date: 5/11/19 Field Personnel: Hunter Miles  
 Drilling Company: SAEDACCO Driller's Name: Robert Miller  
 Driller's Certification Number: 1472 Weather Conditions: Clear 80'

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

|   |  |                                       |   |
|---|--|---------------------------------------|---|
| pH meter<br>serial no. <u>H10113</u><br>pH=4.0 <u>SAEDACCO</u><br>pH=7.0 _____<br>pH=10.0 _____ | Conductivity meter<br>serial no. _____<br>standard _____ | Temperature meter<br>serial no. _____ | Turbidity meter<br>serial no. _____<br>NTU=0.0 _____<br>NTU=1.0 _____<br>NTU=10.0 _____ |
|---|--|---------------------------------------|---|

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# MW-8A Well Casing Diameter 2 inches Borehole Diameter 4 inches  
 Depth to Ground Water (DGW) 20.09 ft. Screen Length/Slot Size 10 ft./ 10 in.  
 Total Well Depth (TWD) 30.0 ft. Screen Interval 20.0 ft. to 30.0 ft.  
 Length of water column (LWC=TWD-DGW) 9.31 ft. Type of Drilling Fluids used: —  
 Total Gallons of Water Removed: 20.0 gals. Drilling Fluids recovered — gals.

|                                       |          |             |             |             |      |      |      |
|---------------------------------------|----------|-------------|-------------|-------------|------|------|------|
| Time (military)                       | 1145     | 1200        | 1215        | 1240        |      |      |      |
| pH (s.u.)*                            | 6.01     | 5.06        | 5.05        | 5.05        |      |      |      |
| Specific Conductivity (mmhos/cm)*     | 0.048    | 0.037       | 0.037       | 0.038       |      |      |      |
| Water Temperature (C)*                | 26.3     | 25.4        | 25.4        | 25.4        |      |      |      |
| Turbidity (NTU) *                     | 141      | 22.5        | 11.2        | 8.0         |      |      |      |
| Physical Characteristics (color/odor) | tan      | transparent | transparent | transparent |      |      |      |
| Water Level Measurement (ft) from TOC |          |             |             | 21.50       |      |      |      |
| Total Well Depth (ft) from TOC        |          |             |             | 30.0        |      |      |      |
| Cumulative Gallons Removed            | 5.0 gals | 10.0 gals   | 15.0 gals   | 20.0 gals   | gals | gals | gals |

\* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: well was gauged (DGW+TWD), submersible pump and surge block were used in alternation. Parameters were taken on H10113. Process was repeated until surge water from well met development parameters

Driller Signature: Robert Miles Date: 5-11-2019



**Well Development Data Verification Form  
Underground Storage Tank Management Division**

Facility Name: Hot Spot #3005 Site ID#: 12719  
 Date: 5/9/18 Field Personnel: Hunter Miles  
 Drilling Company: SAEDACCO Driller's Name: Brian Fwing  
 Driller's Certification Number: 1947 Weather Conditions: Clear 65

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

|                          |                    |                   |                  |
|--------------------------|--------------------|-------------------|------------------|
| pH meter                 | Conductivity meter | Temperature meter | Turbidity meter  |
| serial no. <u>Horiba</u> | serial no. _____   | serial no. _____  | serial no. _____ |
| pH=4.0 <u>162AKCOE</u>   | standard _____     |                   | NTU=0.0 _____    |
| pH=7.0 _____             |                    |                   | NTU=1.0 _____    |
| pH=10.0 _____            |                    |                   | NTU=10.0 _____   |

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# Mw-17 Well Casing Diameter 2 inches Borehole Diameter 4 inches  
 Depth to Ground Water (DGW) 25.68 ft. Screen Length/Slot Size 10 ft./ in.  
 Total Well Depth (TWD) 30.0 ft. Screen Interval 20.0 ft. to 30.0 ft.  
 Length of water column (LWC=TWD-DGW) 4.52 ft. Type of Drilling Fluids used: -  
 Total Gallons of Water Removed: 15.0 gals. Drilling Fluids recovered - gals.

|                                       |           |           |           |             |             |              |      |
|---------------------------------------|-----------|-----------|-----------|-------------|-------------|--------------|------|
| Time (military)                       | 0740      | 0746      | 0755      | 0800        | 0806        | 0812         |      |
| pH (s.u.)*                            | 6.22      | 5.09      | 5.02      | 5.11        | 5.00        | 4.99         |      |
| Specific Conductivity (mmhos/cm)*     | 0.232     | 0.049     | 0.044     | 0.042       | 0.041       | 0.041        |      |
| Water Temperature (C)*                | 17.6      | 18.8      | 18.9      | 19.0        | 19.0        | 19.0         |      |
| Turbidity (NTU) *                     | 4016      | 152       | 144       | 67.6        | 7.3         | 6.5          |      |
| Physical Characteristics (color/odor) | brown/red | light tan | light tan | transparent | transparent | trans-parent |      |
| Water Level Measurement (ft) from TOC | 25.68     |           |           |             |             | 29.0         |      |
| Total Well Depth (ft) from TOC        | 30.2      |           |           |             |             | 30.2         |      |
| Cumulative Gallons Removed            | 1NT gals  | 2.25 gals | 6.0 gals  | 9.0 gals    | 12.0 gals   | 15.0 gals    | gals |

\* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: well gauged (DGW + TWD) Submersible surge block + pump was entered into well. Horiba was used to take groundwater parameters ~ every 3 casing volumes (.73 per casing volume) until all parameters were met for development.

Driller Signature: [Signature] Date: 5/11/18



**Well Development Data Verification Form  
Underground Storage Tank Management Division**

Facility Name: Hot Spot 3005 Site ID#: 12719  
 Date: 5/9/18 Field Personnel: Hunter Miles  
 Drilling Company: SAEPACCO Driller's Name: Brian Ewing  
 Driller's Certification Number: 1947 Weather Conditions: Clear 65°

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

|                          |                    |                   |                  |
|--------------------------|--------------------|-------------------|------------------|
| pH meter                 | Conductivity meter | Temperature meter | Turbidity meter  |
| serial no. <u>Horiba</u> | serial no. _____   | serial no. _____  | serial no. _____ |
| pH=4.0 <u>16PAKCOE</u>   | standard _____     |                   | NTU=0.0 _____    |
| pH=7.0 _____             |                    |                   | NTU=1.0 _____    |
| pH=10.0 _____            |                    |                   | NTU=10.0 _____   |

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# Mw-18 Well Casing Diameter 2 inches Borehole Diameter 4 inches  
 Depth to Ground Water (DGW) 23.90 ft. Screen Length/Slot Size 10 ft./ \_\_\_\_\_ in.  
 Total Well Depth (TWD) 30.0 ft. Screen Interval 20.0 ft. to 30.0 ft.  
 Length of water column (LWC=TWD-DGW) 6.10 ft. Type of Drilling Fluids used: \_\_\_\_\_  
 Total Gallons of Water Removed: 15.0 gals. Drilling Fluids recovered \_\_\_\_\_ gals.

|                                       |           |           |           |          |           |             |             |
|---------------------------------------|-----------|-----------|-----------|----------|-----------|-------------|-------------|
| Time (military)                       | 0830      | 0832      | 0834      | 0837     | 0841      | 0845        | 0850        |
| pH (s.u.)*                            | 5.49      | 5.51      | 5.53      | 5.56     | 5.35      | 5.39        | 5.40        |
| Specific Conductivity (mmhos/cm)*     | 0.079     | 0.071     | 0.070     | 0.068    | 0.067     | 0.066       | 0.066       |
| Water Temperature (C)*                | 19.0      | 19.0      | 19.0      | 19.0     | 19.1      | 19.1        | 19.1        |
| Turbidity (NTU) *                     | 411       | 387       | 319       | 171      | 104       | 31.9        | 8.4         |
| Physical Characteristics (color/odor) | red brown | red brown | red brown | tan      | light tan | transparent | transparent |
| Water Level Measurement (ft) from TOC | 23.90     |           |           |          |           |             | 26.8        |
| Total Well Depth (ft) from TOC        | 30.0      |           |           |          |           |             | 30.0        |
| Cumulative Gallons Removed            | 1NT gals  | 1.0 gals  | 3.0 gals  | 6.0 gals | 9.0 gals  | 12.0 gals   | 15.0 gals   |

\* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.  
 Detailed description of Well Development process: well gauged (DGW + TWD). surge block + submersible pump placed in well. Horiba parameters taken every 3 casing volumes (~1 gal per casing volume) until all parameters were met for development

Driller Signature: [Signature] Date: 5/11/18



**Well Development Data Verification Form**  
**Underground Storage Tank Management Division**

1-2

Facility Name: Hot Spot # 3005  
 Date: 5/9/18 Field Personnel: Hunter Miles  
 Drilling Company: SAEDACCO  
 Driller's Certification Number: 1947

Site ID#: 12719  
 Driller's Name: Brian Ewing  
 Weather Conditions: Clear 70'

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

|                                    |                                     |                                    |                                  |
|------------------------------------|-------------------------------------|------------------------------------|----------------------------------|
| pH meter serial no. <u>100,600</u> | Conductivity meter serial no. _____ | Temperature meter serial no. _____ | Turbidity meter serial no. _____ |
| pH=4.0 <u>6.2</u>                  | standard _____                      |                                    | NTU=0.0 _____                    |
| pH=7.0 _____                       |                                     |                                    | NTU=1.0 _____                    |
| pH=10.0 _____                      |                                     |                                    | NTU=10.0 _____                   |

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# Mw-19 Well Casing Diameter 2 inches Borehole Diameter 4 inches  
 Depth to Ground Water (DGW) 25.31 ft. Screen Length/Slot Size 10 ft./ in.  
 Total Well Depth (TWD) 30.5 ft. Screen Interval 20.5 ft. to 30.5 ft.  
 Length of water column (LWC=TWD-DGW) 5.19 ft. Type of Drilling Fluids used: -  
 Total Gallons of Water Removed: 25.0 gals. Drilling Fluids recovered - gals.

|                                       |            |               |          |          |           |             |             |
|---------------------------------------|------------|---------------|----------|----------|-----------|-------------|-------------|
| Time (military)                       | 1000       | 1005          | 1010     | 1015     | 1020      | 1026        | 1031        |
| pH (s.u.)*                            | 5.92       | 5.83          | 5.73     | 5.75     | 5.75      | 5.76        | 5.45        |
| Specific Conductivity (mmhos/cm)*     | 0.120      | 0.112         | 0.099    | 0.093    | 0.089     | 0.088       | 0.085       |
| Water Temperature ( C)*               | 21.5       | 21.3          | 21.3     | 21.4     | 21.4      | 21.5        | 21.5        |
| Turbidity (NTU) *                     | 462        | 406           | 374      | 333      | 245       | 96.7        | 96.3        |
| Physical Characteristics (color/odor) | red/orange | red/mud brown | tan      | tan      | light tan | transparent | transparent |
| Water Level Measurement (ft) from TOC | 25.31      |               |          |          |           |             |             |
| Total Well Depth (ft) from TOC        | 30.5       |               |          |          |           |             |             |
| Cumulative Gallons Removed            | 1NT gals   | 2.5 gals      | 5.0 gals | 7.5 gals | 10.0 gals | 12.5 gals   | 15.0 gals   |

\* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Page 2

Driller Signature: [Signature]

Date: 5/11/18



**Well Development Data Verification Form**  
**Underground Storage Tank Management Division**

2-2

Facility Name: Hot Spot #3005  
 Date: 5/9/18 Field Personnel: \_\_\_\_\_  
 Drilling Company: SAEDALCO  
 Driller's Certification Number: 1947

Site ID#: 2719  
 Driller's Name: Brian Ewing  
 Weather Conditions: clear 70°

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

|                          |                    |                   |                  |
|--------------------------|--------------------|-------------------|------------------|
| pH meter                 | Conductivity meter | Temperature meter | Turbidity meter  |
| serial no. <u>Horiba</u> | serial no. _____   | serial no. _____  | serial no. _____ |
| pH=4.0 _____             | standard _____     |                   | NTU=0.0 _____    |
| pH=7.0 _____             |                    |                   | NTU=1.0 _____    |
| pH=10.0 _____            |                    |                   | NTU=10.0 _____   |

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# MW-19 Well Casing Diameter 2 inches Borehole Diameter 4 inches  
 Depth to Ground Water (DGW) 25.31 ft. Screen Length/Slot Size 10 ft./ \_\_\_\_\_ in.  
 Total Well Depth (TWD) 30.0 ft. Screen Interval 20.0 ft. to 30.0 ft.  
 Length of water column (LWC=TWD-DGW) 5.19 ft. Type of Drilling Fluids used: \_\_\_\_\_  
 Total Gallons of Water Removed: 25.0 gals. Drilling Fluids recovered \_\_\_\_\_ gals.

|                                       |             |             |              |              |  |  |  |
|---------------------------------------|-------------|-------------|--------------|--------------|--|--|--|
| Time (military)                       | 1045        | 1055        | 1103         | 1110         |  |  |  |
| pH (s.u.)*                            | 5.50        | 5.55        | 5.50         | 5.50         |  |  |  |
| Specific Conductivity (mmhos/cm)*     | 0.094       | 0.077       | 0.076        | 0.076        |  |  |  |
| Water Temperature (C)*                | 21.5        | 21.5        | 21.6         | 21.6         |  |  |  |
| Turbidity (NTU) *                     | 77.9        | 19.0        | 11.2         | 9.1          |  |  |  |
| Physical Characteristics (color/odor) | transparent | transparent | trans/parent | trans/parent |  |  |  |
| Water Level Measurement (ft) from TOC |             |             |              | 26.33        |  |  |  |
| Total Well Depth (ft) from TOC        |             |             |              | 30.5         |  |  |  |
| Cumulative Gallons Removed            | 17.5 gals   | 20.0 gals   | 22.5 gals    | 25.0 gals    |  |  |  |

\* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well was gauged (DGW + TWD). Submersible pump was inserted and operated. Horiba took parameters ~ 3 casing volumes (55 gal per casing volume). Surge block used and well purged until parameters met development requirements

Driller Signature: \_\_\_\_\_

Date: 5/11/18



**Well Development Data Verification Form**  
**Underground Storage Tank Management Division**



Facility Name: Hot spot # 3005  
 Date: 5/9/18  
 Drilling Company: 3AEDACCO  
 Driller's Certification Number: 1947

Site ID#: 1279  
 Field Personnel: Hunter Miles  
 Driller's Name: BRIAN EWING  
 Weather Conditions: clear 75°

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

|   |  |                                       |   |
|---|--|---------------------------------------|---|
| pH meter<br>serial no. <u>Horiba</u><br>pH=4.0 <u>RAKCOE</u><br>pH=7.0 _____<br>pH=10.0 _____ | Conductivity meter<br>serial no. _____<br>standard _____ | Temperature meter<br>serial no. _____ | Turbidity meter<br>serial no. _____<br>NTU=0.0 _____<br>NTU=1.0 _____<br>NTU=10.0 _____ |
|---|--|---------------------------------------|---|

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# MW-20 Well Casing Diameter 2 inches Borehole Diameter 9 inches  
 Depth to Ground Water (DGW) 25.72 ft. Screen Length/Slot Size 10 ft./ 10 in.  
 Total Well Depth (TWD) 30.4 ft. Screen Interval 26.4 ft. to 30.4 ft.  
 Length of water column (LWC=TWD-DGW) 4.68 ft. Type of Drilling Fluids used: -  
 Total Gallons of Water Removed: 18.0 gals. Drilling Fluids recovered - gals.

|                                       |               |               |               |               |              |              |             |                 |
|---------------------------------------|---------------|---------------|---------------|---------------|--------------|--------------|-------------|-----------------|
| Time (military)                       | 1350          | 1353          | 1358          | 1404          | 1410         | 1416         | 1422        | 1428            |
| pH (s.u.)*                            | 5.38          | 5.11          | 5.03          | 4.97          | 5.27         | 5.23         | 5.20        | 5.20            |
| Specific Conductivity (mmhos/cm)*     | 0.087         | 0.080         | 0.079         | 0.074         | 0.071        | 0.072        | 0.071       | 0.070           |
| Water Temperature (C)*                | 22.9          | 21.9          | 21.7          | 21.7          | 22.0         | 22.0         | 21.9        | 21.9            |
| Turbidity (NTU) *                     | 480           | 471           | 466           | 411           | 307          | 106          | 44.4        | 09.7            |
| Physical Characteristics (color/odor) | red<br>orange | red<br>orange | red<br>orange | red<br>orange | light<br>tan | light<br>tan | transparent | trans<br>parent |
| Water Level Measurement (ft) from TOC | 25.72         |               |               |               |              |              |             | 26.60           |
| Total Well Depth (ft) from TOC        | 30.4          |               |               |               |              |              |             | 30.4            |
| Cumulative Gallons Removed            | 1.0 gals      | 1.0 gals      | 3.0 gals      | 6.0 gals      | 9.0 gals     | 12.0 gals    | 15.0 gals   | 18.0            |

\* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: well gauged (DGW + TWD). Submersible pump and surge block use alternatively to remove development water. parameters were taken on the Horiba process was repeated until parameters met development guidelines.

Driller Signature: \_\_\_\_\_

Date: 5/11/18





## Well Development Data Verification Form Underground Storage Tank Management Division

Facility Name: Hot Spot #3005 Site ID#: 12719  
 Date: 5/9/18 Field Personnel: Hunter Miles  
 Drilling Company: SAEDACCO Driller's Name: Brian Ewing  
 Driller's Certification Number: 1947 Weather Conditions: Clear 75°

### Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

### Quality Assurance

|                         |                    |                   |                  |
|-------------------------|--------------------|-------------------|------------------|
| pH meter                | Conductivity meter | Temperature meter | Turbidity meter  |
| serial no. <u>Ho-16</u> | serial no. _____   | serial no. _____  | serial no. _____ |
| pH=4.0 <u>16.2</u>      | standard _____     |                   | NTU=0.0 _____    |
| pH=7.0 _____            |                    |                   | NTU=1.0 _____    |
| pH=10.0 _____           |                    |                   | NTU=10.0 _____   |

### Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# MW-21 Well Casing Diameter 2 inches Borehole Diameter 4 inches  
 Depth to Ground Water (DGW) 24.88 ft. Screen Length/Slot Size 10 ft./ \_\_\_\_\_ in.  
 Total Well Depth (TWD) 29.9 ft. Screen Interval 19.9 ft. to 29.9 ft.  
 Length of water column (LWC=TWD-DGW) 5.02 ft. Type of Drilling Fluids used: \_\_\_\_\_  
 Total Gallons of Water Removed: 25.0 gals. Drilling Fluids recovered \_\_\_\_\_ gals.

|                                       |                   |                   |                   |                   |                  |                    |                    |
|---------------------------------------|-------------------|-------------------|-------------------|-------------------|------------------|--------------------|--------------------|
| Time (military)                       | <u>1628</u>       | <u>1630</u>       | <u>1635</u>       | <u>1640</u>       | <u>1650</u>      | <u>1705</u>        | <u>1715</u>        |
| pH (s.u.)*                            | <u>4.44</u>       | <u>5.56</u>       | <u>5.41</u>       | <u>5.43</u>       | <u>5.10</u>      | <u>5.09</u>        | <u>5.09</u>        |
| Specific Conductivity (mmhos/cm)*     | <u>0.111</u>      | <u>0.096</u>      | <u>0.073</u>      | <u>0.070</u>      | <u>0.066</u>     | <u>0.065</u>       | <u>0.064</u>       |
| Water Temperature (C)*                | <u>28.1</u>       | <u>25.1</u>       | <u>23.4</u>       | <u>23.2</u>       | <u>23.7</u>      | <u>23.6</u>        | <u>23.7</u>        |
| Turbidity (NTU) *                     | <u>487</u>        | <u>406</u>        | <u>409</u>        | <u>382</u>        | <u>333</u>       | <u>19.3</u>        | <u>6.5</u>         |
| Physical Characteristics (color/odor) | <u>orange red</u> | <u>orange red</u> | <u>orange red</u> | <u>orange red</u> | <u>red tan</u>   | <u>transparent</u> | <u>transparent</u> |
| Water Level Measurement (ft) from TOC | <u>24.88</u>      |                   |                   |                   |                  |                    | <u>25.48</u>       |
| Total Well Depth (ft) from TOC        | <u>29.9</u>       |                   |                   |                   |                  |                    | <u>29.9</u>        |
| Cumulative Gallons Removed            | <u>0</u> gals     | <u>1.0</u> gals   | <u>5.0</u> gals   | <u>10.0</u> gals  | <u>15.0</u> gals | <u>20.0</u> gals   | <u>25.0</u> gals   |

\* Development is completed once groundwater turbidity is  $\leq 10$  NTU and all parameters are  $\pm 10\%$ .

Detailed description of Well Development process: well cased (DGW + TWD). Submersible pump and surge block used in alternation to remove groundwater. parameters were taken on the Ho-16. Process was repeated until parameters met development guidelines

Driller Signature: \_\_\_\_\_

Date: 5/11/18



**Well Development Data Verification Form  
Underground Storage Tank Management Division**

Facility Name: Hot Spot # 3005 Site ID#: 127.9  
 Date: 5/11/18 Field Personnel: Hunter Miles  
 Drilling Company: SAEDACCO Driller's Name: Robert Miller  
 Driller's Certification Number: 1472 Weather Conditions: Clear 85°

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

|                          |                    |                   |                  |
|--------------------------|--------------------|-------------------|------------------|
| pH meter                 | Conductivity meter | Temperature meter | Turbidity meter  |
| serial no. <u>Horiba</u> | serial no. _____   | serial no. _____  | serial no. _____ |
| pH=4.0 <u>JBRACCOE</u>   | standard _____     |                   | NTU=0.0 _____    |
| pH=7.0 _____             |                    |                   | NTU=1.0 _____    |
| pH=10.0 _____            |                    |                   | NTU=10.0 _____   |

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# MW-22 Well Casing Diameter 2 inches Borehole Diameter 4 inches  
 Depth to Ground Water (DGW) 30.59 ft. Screen Length/Slot Size 10 ft./ 10 in.  
 Total Well Depth (TWD) 35.0 ft. Screen Interval 25.0 ft. to 35.0 ft.  
 Length of water column (LWC=TWD-DGW) 4.41 ft. Type of Drilling Fluids used: \_\_\_\_\_  
 Total Gallons of Water Removed: 25.0 gals. Drilling Fluids recovered \_\_\_\_\_ gals.

|                                       |          |           |             |             |             |  |  |
|---------------------------------------|----------|-----------|-------------|-------------|-------------|--|--|
| Time (military)                       | 1325     | 1335      | 1346        | 1358        | 1415        |  |  |
| pH (s.u.)*                            | 5.45     | 5.30      | 5.00        | 5.00        | 4.99        |  |  |
| Specific Conductivity (mmhos/cm)*     | 0.101    | 0.074     | 0.064       | 0.063       | 0.062       |  |  |
| Water Temperature (C)*                | 24.5     | 24.3      | 23.5        | 23.5        | 23.5        |  |  |
| Turbidity (NTU) *                     | 247      | 211       | 71.1        | 18.6        | 9.6         |  |  |
| Physical Characteristics (color/odor) | tan      | tan       | transparent | transparent | transparent |  |  |
| Water Level Measurement (ft) from TOC |          |           |             |             |             |  |  |
| Total Well Depth (ft) from TOC        |          |           |             |             |             |  |  |
| Cumulative Gallons Removed            | 5.0 gals | 10.0 gals | 15.0 gals   | 20.0 gals   | 25.0 gals   |  |  |

\* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Driller Signature: Robert Miller Date: 5-11-2018



**Well Development Data Verification Form**  
**Underground Storage Tank Management Division**

Facility Name: Hot Spot #3005 Site ID#: 12719  
 Date: 5/11/18 Field Personnel: Hunter Miles  
 Drilling Company: SAEDACCO Driller's Name: Robert Miller  
 Driller's Certification Number: 1972 Weather Conditions: clear 85°

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

|                          |                    |                   |                  |
|--------------------------|--------------------|-------------------|------------------|
| pH meter                 | Conductivity meter | Temperature meter | Turbidity meter  |
| serial no. <u>Horiba</u> | serial no. _____   | serial no. _____  | serial no. _____ |
| pH=4.0 <u>16FAKOE</u>    | standard _____     |                   | NTU=0.0 _____    |
| pH=7.0 _____             |                    |                   | NTU=1.0 _____    |
| pH=10.0 _____            |                    |                   | NTU=10.0 _____   |

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# MW-23 Well Casing Diameter 2 inches Borehole Diameter 4 inches  
 Depth to Ground Water (DGW) 30.11 ft. Screen Length/Slot Size 10 ft./ 10 in.  
 Total Well Depth (TWD) 35.0 ft. Screen Interval 25.0 ft. to 35.0 ft.  
 Length of water column (LWC=TWD-DGW) 4.89 ft. Type of Drilling Fluids used: \_\_\_\_\_  
 Total Gallons of Water Removed: 35.0 gals. Drilling Fluids recovered \_\_\_\_\_ gals.

|                                       |                  |           |           |           |           |             |             |
|---------------------------------------|------------------|-----------|-----------|-----------|-----------|-------------|-------------|
| Time (military)                       | 1430             | 1440      | 1450      | 1500      | 1510      | 1520        | 1530        |
| pH (s.u.)*                            | 5.72             | 5.67      | 5.23      | 5.22      | 5.21      | 5.21        | 5.21        |
| Specific Conductivity (mmhos/cm)*     | 0.069            | 0.056     | 0.056     | 0.057     | 0.056     | 0.055       | 0.055       |
| Water Temperature (C)*                | 24.9             | 23.4      | 23.4      | 23.4      | 23.4      | 23.4        | 23.4        |
| Turbidity (NTU) *                     | 406              | 387       | 355       | 101       | 65.1      | 18.1        | 7.8         |
| Physical Characteristics (color/odor) | cloudy/orange    | tan       | tan       | tan       | tan       | transparent | transparent |
| Water Level Measurement (ft) from TOC | <del>30.11</del> |           |           |           |           |             |             |
| Total Well Depth (ft) from TOC        |                  |           |           |           |           |             |             |
| Cumulative Gallons Removed            | 0.0 gals         | 10.0 gals | 15.0 gals | 20.0 gals | 25.0 gals | 30.0 gals   | 35.0 gals   |

\* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Driller Signature: 5-11-2018 Date: Robert Miller



**Well Development Data Verification Form  
Underground Storage Tank Management Division**

Facility Name: Hot Spot #3005 Site ID#: 12719  
 Date: 5-29-18 Field Personnel: J. AM  
 Drilling Company: Ferry Exploration Driller's Name: Langston Jones  
 Driller's Certification Number: 2240D Weather Conditions: rain

Well Development Method ~~1925~~

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Horba VWKAUMKJ

Quality Assurance 1315

|                   |                      |                   |                    |
|-------------------|----------------------|-------------------|--------------------|
| pH meter          | Conductivity meter   | Temperature meter | Turbidity meter    |
| serial no. _____  | serial no. _____     | serial no. _____  | serial no. _____   |
| pH=4.0 <u>4.0</u> | standard <u>4.49</u> |                   | NTU=0.0 <u>0.0</u> |
| pH=7.0 _____      |                      |                   | NTU=1.0 _____      |
| pH=10.0 _____     |                      |                   | NTU=10.0 _____     |

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# MW-24 Well Casing Diameter 2 inches Borehole Diameter 6 inches  
 Depth to Ground Water (DGW) 27.96 ft. Screen Length/Slot Size 10 ft. / 0.010 in.  
 Total Well Depth (TWD) 34.0 ft. Screen Interval 24 ft. to 34 ft.  
 Length of water column (LWC=TWD-DGW) 6.04 ft. Type of Drilling Fluids used: n/a  
 Total Gallons of Water Removed: 21 gals. Drilling Fluids recovered: n/a gals.

|                                       |               |               |                |                 |                 |                |                |
|---------------------------------------|---------------|---------------|----------------|-----------------|-----------------|----------------|----------------|
| Time (military)                       | <u>1530</u>   | <u>1540</u>   | <u>1545</u>    | <u>1550</u>     | <u>1552</u>     | <u>1554</u>    | <u>1556</u>    |
| pH (s.u.)*                            | <u>4.20</u>   | <u>4.02</u>   | <u>4.32</u>    | <u>5.02</u>     | <u>5.05</u>     | <u>5.07</u>    | <u>5.06</u>    |
| Specific Conductivity (mmhos/cm)*     | <u>0.103</u>  | <u>0.106</u>  | <u>0.072</u>   | <u>0.071</u>    | <u>0.069</u>    | <u>0.069</u>   | <u>0.067</u>   |
| Water Temperature (C)*                | <u>21.9</u>   | <u>22.1</u>   | <u>22.5</u>    | <u>22.2</u>     | <u>21.8</u>     | <u>21.8</u>    | <u>21.8</u>    |
| Turbidity (NTU) *                     | <u>919</u>    | <u>639</u>    | <u>411</u>     | <u>262</u>      | <u>95.2</u>     | <u>22.8</u>    | <u>9.6</u>     |
| Physical Characteristics (color/odor) | <u>brown</u>  | <u>brown</u>  | <u>gray</u>    | <u>lt brown</u> | <u>lt brown</u> | <u>clear</u>   | <u>clear</u>   |
| Water Level Measurement (ft) from TOC | <u>27.96</u>  | <u>31.2</u>   | <u>33.0</u>    | <u>32.8</u>     | <u>32.4</u>     | <u>32.1</u>    | <u>31.3</u>    |
| Total Well Depth (ft) from TOC        | <u>34.0</u>   | <u>34.0</u>   | <u>34.0</u>    | <u>34.0</u>     | <u>34.0</u>     | <u>34.0</u>    | <u>34.0</u>    |
| Cumulative Gallons Removed            | <u>0</u> gals | <u>5</u> gals | <u>10</u> gals | <u>15</u> gals  | <u>17</u> gals  | <u>19</u> gals | <u>21</u> gals |

\* Development is completed once groundwater turbidity is  $\leq 10$  NTU and all parameters are  $\pm 10\%$ .

Detailed description of Well Development process: Prior to development, surge block passed through the well 5x to disturb sediment. Then submersible pump was used to remove sediment allowing water to begin to clear. Surge block was used again each time sediment settled until well was cleared.

Driller Signature: Langston Jones Date: 5-29-18



**Well Development Data Verification Form**  
**Underground Storage Tank Management Division**

Facility Name: Hot Spot #3005 Site ID#: 12719  
 Date: 5-29-18 Field Personnel: JF A/ML  
 Drilling Company: Terry Exploration Driller's Name: Langston Jones  
 Driller's Certification Number: 2240D Weather Conditions: rain

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Horiba VWKAUMKJ

Quality Assurance cal. 1315

|                   |                      |                   |                    |
|-------------------|----------------------|-------------------|--------------------|
| pH meter          | Conductivity meter   | Temperature meter | Turbidity meter    |
| serial no. _____  | serial no. _____     | serial no. _____  | serial no. _____   |
| pH=4.0 <u>4.0</u> | standard <u>7.49</u> |                   | NTU=0.0 <u>0.0</u> |
| pH=7.0 _____      |                      |                   | NTU=1.0 _____      |
| pH=10.0 _____     |                      |                   | NTU=10.0 _____     |

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# MW-25 Well Casing Diameter 2 inches Borehole Diameter 5 inches  
 Depth to Ground Water (DGW) 25.03 ft. <sup>0.45</sup> Screen Length/Slot Size 10 ft./ 0.010 in.  
 Total Well Depth (TWD) 30.0 ft. Screen Interval 20 ft. to 30 ft.  
 Length of water column (LWC=TWD-DGW) 5.17 ft. Type of Drilling Fluids used: n/a  
 Total Gallons of Water Removed: 26 gals. Drilling Fluids recovered 1440 gals.

|                                       |                     |               |                |                |                |                |                |
|---------------------------------------|---------------------|---------------|----------------|----------------|----------------|----------------|----------------|
| Time (military)                       | <u>1330</u>         | <u>1345</u>   | <u>1400</u>    | <u>1415</u>    | <u>1430</u>    | <u>1445</u>    | <u>1500</u>    |
| pH (s.u.)*                            | <u>7.71</u>         | <u>7.49</u>   | <u>7.67</u>    | <u>7.50</u>    | <u>7.41</u>    | <u>7.38</u>    | <u>7.36</u>    |
| Specific Conductivity (mmhos/cm)*     | <u>0.261</u>        | <u>0.239</u>  | <u>0.109</u>   | <u>0.103</u>   | <u>0.104</u>   | <u>0.104</u>   | <u>0.103</u>   |
| Water Temperature ( C)*               | <u>24.5</u>         | <u>24.0</u>   | <u>22.4</u>    | <u>21.8</u>    | <u>21.5</u>    | <u>21.5</u>    | <u>21.5</u>    |
| Turbidity (NTU) *                     | <u>922</u>          | <u>833</u>    | <u>620</u>     | <u>310</u>     | <u>101</u>     | <u>42</u>      | <u>10.0</u>    |
| Physical Characteristics (color/odor) | <u>orange/brown</u> | <u>orange</u> | <u>orange</u>  | <u>orange</u>  | <u>orange</u>  | <u>clear</u>   | <u>clear</u>   |
| Water Level Measurement (ft) from TOC | <u>25.03</u>        | <u>29.5</u>   | <u>29.1</u>    | <u>28.50</u>   | <u>29.0</u>    | <u>29.3</u>    | <u>28.4</u>    |
| Total Well Depth (ft) from TOC        | <u>30.0</u>         | <u>30.0</u>   | <u>30.0</u>    | <u>30.0</u>    | <u>30.0</u>    | <u>30.0</u>    | <u>30.0</u>    |
| Cumulative Gallons Removed            | <u>0</u> gals       | <u>5</u> gals | <u>17</u> gals | <u>15</u> gals | <u>20</u> gals | <u>23</u> gals | <u>26</u> gals |

\* Development is completed once groundwater turbidity is  $\leq 10$  NTU and all parameters are  $\pm 10\%$ .  
 Detailed description of Well Development process: Trid to development surge block was used through the well to disturb sediment. Then submersible pump was used to remove sediment-bearing water until it began to clear. surge block and pump were alternated until well would run clear after disturbing water column.

Driller Signature: Langston Jones Date: 5-29-18



**Well Development Data Verification Form  
Underground Storage Tank Management Division**

Facility Name: Hot Spot #3005 Site ID#: 12719  
 Date: 5-29-18 Field Personnel: JD AM  
 Drilling Company: Jerry Explorations Driller's Name: Langston Jones  
 Driller's Certification Number: 2240D Weather Conditions: rain

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Horiba VWKAUMKJ

Quality Assurance 1315

|                   |                      |                   |                    |
|-------------------|----------------------|-------------------|--------------------|
| pH meter          | Conductivity meter   | Temperature meter | Turbidity meter    |
| serial no. _____  | serial no. _____     | serial no. _____  | serial no. _____   |
| pH=4.0 <u>9.0</u> | standard <u>4.4A</u> |                   | NTU=0.0 <u>0.0</u> |
| pH=7.0 _____      |                      |                   | NTU=1.0 _____      |
| pH=10.0 _____     |                      |                   | NTU=10.0 _____     |

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# DW-2 Well Casing Diameter 2/6 inches Borehole Diameter 6 inches  
 Depth to Ground Water (DGW) 30.40 ft. Screen Length/Slot Size 5 ft./ 0.010 in.  
 Total Well Depth (TWD) 60.0 ft. Screen Interval 55 ft. to 60 ft.  
 Length of water column (LWC=TWD-DGW) 29.6 ft. Type of Drilling Fluids used: \_\_\_\_\_  
 Total Gallons of Water Removed: 18 gals. Drilling Fluids recovered \_\_\_\_\_ gals.

|                                       |                     |               |                |                  |                |                |                |
|---------------------------------------|---------------------|---------------|----------------|------------------|----------------|----------------|----------------|
| Time (military)                       | <u>1500</u>         | <u>1505</u>   | <u>1507</u>    | <u>1509</u>      | <u>1511</u>    | <u>1513</u>    | <u>1515</u>    |
| pH (s.u.)*                            | <u>5.16</u>         | <u>4.96</u>   | <u>4.90</u>    | <u>4.88</u>      | <u>4.81</u>    | <u>4.83</u>    | <u>4.84</u>    |
| Specific Conductivity (mmhos/cm)*     | <u>0.107</u>        | <u>0.082</u>  | <u>0.071</u>   | <u>0.072</u>     | <u>0.070</u>   | <u>0.069</u>   | <u>0.070</u>   |
| Water Temperature (C)*                | <u>21.3</u>         | <u>20.5</u>   | <u>20.1</u>    | <u>20.2</u>      | <u>20.0</u>    | <u>20.0</u>    | <u>20.0</u>    |
| Turbidity (NTU) *                     | <u>881</u>          | <u>682</u>    | <u>565</u>     | <u>214</u>       | <u>12.0</u>    | <u>18.0</u>    | <u>4.2</u>     |
| Physical Characteristics (color/odor) | <u>brown/orange</u> | <u>orange</u> | <u>orange</u>  | <u>lt orange</u> | <u>orange</u>  | <u>clear</u>   | <u>clear</u>   |
| Water Level Measurement (ft) from TOC | <u>30.4</u>         | <u>48.2</u>   | <u>46.1</u>    | <u>47.0</u>      | <u>46.6</u>    | <u>49.2</u>    | <u>45.1</u>    |
| Total Well Depth (ft) from TOC        | <u>60.0</u>         | <u>60.0</u>   | <u>60.0</u>    | <u>60.0</u>      | <u>60.0</u>    | <u>60.0</u>    | <u>60.0</u>    |
| Cumulative Gallons Removed            | <u>0</u> gals       | <u>5</u> gals | <u>10</u> gals | <u>12</u> gals   | <u>14</u> gals | <u>16</u> gals | <u>18</u> gals |

\* Development is completed once groundwater turbidity is  $\leq 10$  NTU and all parameters are  $\pm 10\%$ .  
 Detailed description of Well Development process: Prior to development, surge block was passed through the water to disturb sediment. Then a submersible pump was used to remove sediment-bearing water until it began to clear. Surge block and pump were alternated until well consistently ran clear.

Driller Signature: Langston Jones Date: 5-29-18



**Well Development Data Verification Form**  
**Underground Storage Tank Management Division**

Facility Name: Hot Spot #3005 Site ID#: 12719  
 Date: 5-29-18 Field Personnel: JJ JAM  
 Drilling Company: Jerry Exploration Driller's Name: Langston Jones  
 Driller's Certification Number: 22400 Weather Conditions: rain

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Abattoir VWKAUMKJ

Quality Assurance 1315

|                   |                      |                   |                    |
|-------------------|----------------------|-------------------|--------------------|
| pH meter          | Conductivity meter   | Temperature meter | Turbidity meter    |
| serial no. _____  | serial no. _____     | serial no. _____  | serial no. _____   |
| pH=4.0 <u>4.0</u> | standard <u>4.49</u> |                   | NTU=0.0 <u>0.0</u> |
| pH=7.0 _____      |                      |                   | NTU=1.0 _____      |
| pH=10.0 _____     |                      |                   | NTU=10.0 _____     |

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# DW-3 Well Casing Diameter 2/6 inches Borehole Diameter 6 inches  
 Depth to Ground Water (DGW) 41.5 ft. Screen Length/Slot Size 5 ft. / 0.010 in.  
 Total Well Depth (TWD) 65 ft. Screen Interval 60 ft. to 65 ft.  
 Length of water column (LWC=TWD-DGW) 23.5 ft. Type of Drilling Fluids used: \_\_\_\_\_  
 Total Gallons of Water Removed: 23 gals. Drilling Fluids recovered \_\_\_\_\_ gals. slow

|                                       |               |               |               |                  |                  |                |                |
|---------------------------------------|---------------|---------------|---------------|------------------|------------------|----------------|----------------|
| Time (military)                       | <u>1600</u>   | <u>1615</u>   | <u>1625</u>   | <u>1635</u>      | <u>1640</u>      | <u>1645</u>    | <u>1650</u>    |
| pH (s.u.)*                            | <u>6.18</u>   | <u>7.54</u>   | <u>7.69</u>   | <u>7.81</u>      | <u>7.82</u>      | <u>7.82</u>    | <u>7.84</u>    |
| Specific Conductivity (mmhos/cm)*     | <u>0.544</u>  | <u>0.523</u>  | <u>0.569</u>  | <u>0.622</u>     | <u>0.618</u>     | <u>0.615</u>   | <u>0.613</u>   |
| Water Temperature ( C)*               | <u>21.8</u>   | <u>24.4</u>   | <u>24.0</u>   | <u>23.0</u>      | <u>23.5</u>      | <u>23.5</u>    | <u>23.5</u>    |
| Turbidity (NTU) *                     | <u>937</u>    | <u>710</u>    | <u>388</u>    | <u>283</u>       | <u>89.6</u>      | <u>32.1</u>    | <u>6.1</u>     |
| Physical Characteristics (color/odor) | <u>brown</u>  | <u>tan</u>    | <u>tan</u>    | <u>light tan</u> | <u>light tan</u> | <u>clear</u>   | <u>clear</u>   |
| Water Level Measurement (ft) from TOC | <u>65.0</u>   | <u>65.0</u>   | <u>65.0</u>   | <u>65.0</u>      | <u>65.0</u>      | <u>65.0</u>    | <u>65.0</u>    |
| Total Well Depth (ft) from TOC        | <u>41.5</u>   | <u>48.0</u>   | <u>49.3</u>   | <u>47.2</u>      | <u>47.6</u>      | <u>48.0</u>    | <u>47.7</u>    |
| Cumulative Gallons Removed            | <u>0</u> gals | <u>5</u> gals | <u>8</u> gals | <u>12</u> gals   | <u>16</u> gals   | <u>20</u> gals | <u>23</u> gals |

\* Development is completed once groundwater turbidity is  $\leq 10$  NTU and all parameters are  $\pm 10\%$ .  
 Detailed description of Well Development process: Prior to development, surge block was raised through the water to disturb sediment. Then a submersible pump was used to remove sediment-bearing water until it ran clear. Surge block and pump were alternated until well consistently ran clear.

Driller Signature: Langston Jones Date: 5-29-18



**Well Development Data Verification Form  
Underground Storage Tank Management Division**

Facility Name: Hot Spot #3005 Site ID#: 12719  
 Date: 5/10/18 Field Personnel: Hunter Miles  
 Drilling Company: SAEDACCO Driller's Name: Robert Miller  
 Driller's Certification Number: 1472 Weather Conditions: clear 85°

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

|                         |                    |                   |                  |
|-------------------------|--------------------|-------------------|------------------|
| pH meter                | Conductivity meter | Temperature meter | Turbidity meter  |
| serial no. <u>H0.1b</u> | serial no. _____   | serial no. _____  | serial no. _____ |
| pH=4.0 <u>BRACKOE</u>   | standard _____     |                   | NTU=0.0 _____    |
| pH=7.0 _____            |                    |                   | NTU=1.0 _____    |
| pH=10.0 _____           |                    |                   | NTU=10.0 _____   |

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# RW-1 Well Casing Diameter 4 inches Borehole Diameter 6 inches  
 Depth to Ground Water (DGW) 26.55 ft. Screen Length/Slot Size 10 ft./ \_\_\_\_\_ in.  
 Total Well Depth (TWD) 30.0 ft. Screen Interval 20.0 ft. to 30.0 ft.  
 Length of water column (LWC=TWD-DGW) 3.45 ft. Type of Drilling Fluids used: -  
 Total Gallons of Water Removed: 40.0 gals. Drilling Fluids recovered: - gals.

|                                       |                   |                  |                    |                    |      |      |      |
|---------------------------------------|-------------------|------------------|--------------------|--------------------|------|------|------|
| Time (military)                       | <u>1450</u>       | <u>1510</u>      | <u>1540</u>        | <u>1605</u>        |      |      |      |
| pH (s.u.)*                            | <u>6.11</u>       | <u>6.09</u>      | <u>6.30</u>        | <u>6.31</u>        |      |      |      |
| Specific Conductivity (mmhos/cm)*     | <u>0.497</u>      | <u>0.469</u>     | <u>0.468</u>       | <u>0.468</u>       |      |      |      |
| Water Temperature ( C)*               | <u>25.5</u>       | <u>22.4</u>      | <u>22.6</u>        | <u>22.0</u>        |      |      |      |
| Turbidity (NTU) *                     | <u>412</u>        | <u>75.0</u>      | <u>35.9</u>        | <u>9.8</u>         |      |      |      |
| Physical Characteristics (color/odor) | <u>orange red</u> | <u>tan</u>       | <u>transparent</u> | <u>transparent</u> |      |      |      |
| Water Level Measurement (ft) from TOC | <u>26.55</u>      |                  |                    | <u>28.98</u>       |      |      |      |
| Total Well Depth (ft) from TOC        | <u>30.0</u>       |                  |                    | <u>30.0</u>        |      |      |      |
| Cumulative Gallons Removed            | <u>10.0</u> gals  | <u>20.0</u> gals | <u>30.0</u> gals   | <u>40.0</u> gals   | gals | gals | gals |

\* Development is completed once groundwater turbidity is  $\leq 10$  NTU and all parameters are  $\pm 10\%$ .

Detailed description of Well Development process: well was gauged (DGW + TWD). Submersible pump was inserted and well was surged ~~alternating~~ in alternation. Parameters were taken on Horiba. This process was repeated until parameters met development guidelines

Driller Signature: Robert Miller Date: 5-11-2018





**Well Development Data Verification Form  
Underground Storage Tank Management Division**

Facility Name: Hot Spot #3005 Site ID#: 12719  
 Date: 5/11/18 Field Personnel: Hunter Miles  
 Drilling Company: SAEPACO Driller's Name: Robert Miller  
 Driller's Certification Number: 1472 Weather Conditions: Clear 80°

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

|                          |                    |                   |                  |
|--------------------------|--------------------|-------------------|------------------|
| pH meter                 | Conductivity meter | Temperature meter | Turbidity meter  |
| serial no. <u>Horiba</u> | serial no. _____   | serial no. _____  | serial no. _____ |
| pH=4.0 <u>3624200</u>    | standard _____     |                   | NTU=0.0 _____    |
| pH=7.0 _____             |                    |                   | NTU=1.0 _____    |
| pH=10.0 _____            |                    |                   | NTU=10.0 _____   |

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# MW-2 Well Casing Diameter 4 inches Borehole Diameter 6 inches  
 Depth to Ground Water (DGW) 26.39 ft. Screen Length/Slot Size 10 ft./     in.  
 Total Well Depth (TWD) 30.0 ft. Screen Interval 20.0 ft. to 30.0 ft.  
 Length of water column (LWC=TWD-DGW) 3.61 ft. Type of Drilling Fluids used:      
 Total Gallons of Water Removed: 30.0 gals. Drilling Fluids recovered     gals.

|                                       |                 |                    |                    |                    |      |      |      |
|---------------------------------------|-----------------|--------------------|--------------------|--------------------|------|------|------|
| Time (military)                       | <u>0840</u>     | <u>0855</u>        | <u>0920</u>        | <u>0940</u>        |      |      |      |
| pH (s.u.)*                            | <u>5.97</u>     | <u>6.06</u>        | <u>6.05</u>        | <u>6.03</u>        |      |      |      |
| Specific Conductivity (mmhos/cm)*     | <u>6.200</u>    | <u>0.174</u>       | <u>0.173</u>       | <u>0.172</u>       |      |      |      |
| Water Temperature (C)*                | <u>20.7</u>     | <u>21.8</u>        | <u>21.9</u>        | <u>21.9</u>        |      |      |      |
| Turbidity (NTU) *                     | <u>169</u>      | <u>24.2</u>        | <u>11.8</u>        | <u>8.8</u>         |      |      |      |
| Physical Characteristics (color/odor) | <u>tan</u>      | <u>transparent</u> | <u>transparent</u> | <u>transparent</u> |      |      |      |
| Water Level Measurement (ft) from TOC |                 |                    |                    |                    |      |      |      |
| Total Well Depth (ft) from TOC        | <u>30.0</u>     |                    |                    | <u>30.0</u>        |      |      |      |
| Cumulative Gallons Removed            | <u>7.5</u> gals | <u>15.0</u> gals   | <u>22.5</u> gals   | <u>30.0</u> gals   | gals | gals | gals |

\* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: well was gauged (Dew + TWD). Submersible pump and surge block were inserted in alternation. Parameters were taken on Horiba. Process was repeated until parameters of purge water met development guidelines

Driller Signature: Robert Miller Date: 5-11-2018



**Well Development Data Verification Form  
Underground Storage Tank Management Division**

Facility Name: Hot Spot # 3005 Site ID#: 12719  
 Date: 5/9/18 Field Personnel: Hunter Miles  
 Drilling Company: SAEDACCO Driller's Name: Robert Miller  
 Driller's Certification Number: 1472 Weather Conditions: clear 70°

Well Development Method

Surge Block  Submersible Pump  Air Lifting   
 \* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

|   |  |                                       |   |
|---|--|---------------------------------------|---|
| pH meter<br>serial no. <u>Horiba</u><br>pH=4.0 <u>162AK10E</u><br>pH=7.0 _____<br>pH=10.0 _____ | Conductivity meter<br>serial no. _____<br>standard _____ | Temperature meter<br>serial no. _____ | Turbidity meter<br>serial no. _____<br>NTU=0.0 _____<br>NTU=1.0 _____<br>NTU=10.0 _____ |
|---|--|---------------------------------------|---|

Drilling Method

Hollow Stem Augers  Solid Flight Augers  Direct Push   
 Air Rotary  Mud Rotary  Sonic

Monitoring Well ID# Rw-3 Well Casing Diameter 4 inches Borehole Diameter 6 inches  
 Depth to Ground Water (DGW) 29.36 ft. Screen Length/Slot Size 10 ft./ in.  
 Total Well Depth (TWD) 35.0 ft. Screen Interval 25.0 ft. to 35.0 ft.  
 Length of water column (LWC=TWD-DGW) 5.74 ft. Type of Drilling Fluids used: \_\_\_\_\_  
 Total Gallons of Water Removed: 40.0 gals. Drilling Fluids recovered \_\_\_\_\_ gals.

|                                       |                  |                    |                    |                    |      |      |      |
|---------------------------------------|------------------|--------------------|--------------------|--------------------|------|------|------|
| Time (military)                       | <u>1225</u>      | <u>1135</u>        | <u>1055</u>        | <u>1220</u>        |      |      |      |
| pH (s.u.)*                            | <u>5.98</u>      | <u>5.40</u>        | <u>5.39</u>        | <u>5.38</u>        |      |      |      |
| Specific Conductivity (mmhos/cm)*     | <u>0.233</u>     | <u>0.141</u>       | <u>0.139</u>       | <u>0.139</u>       |      |      |      |
| Water Temperature (C)*                | <u>27.0</u>      | <u>29.2</u>        | <u>29.2</u>        | <u>29.3</u>        |      |      |      |
| Turbidity (NTU) *                     | <u>187</u>       | <u>46.0</u>        | <u>28.8</u>        | <u>7.9</u>         |      |      |      |
| Physical Characteristics (color/odor) | <u>tan</u>       | <u>transparent</u> | <u>transparent</u> | <u>transparent</u> |      |      |      |
| Water Level Measurement (ft) from TOC | <u>29.36</u>     |                    |                    | <u>33.02</u>       |      |      |      |
| Total Well Depth (ft) from TOC        | <u>35.1</u>      |                    |                    | <u>35.1</u>        |      |      |      |
| Cumulative Gallons Removed            | <u>10.0</u> gals | <u>20.0</u> gals   | <u>30.0</u> gals   | <u>40</u> gals     | gals | gals | gals |

\* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Driller Signature: Robert Miller Date: 5-11-2018



**HORIBA U-52-2 DAILY CALIBRATION DATA SHEET**

Serial Number: YWKAUMKJ Date/Time: 5/9/18 Inspector: HM  
0730

Solution Manufacturer: <sup>2017-2018</sup> Aurical <sup>SOLUTIONS</sup> Lot Number: 1712179 Expiration Date: 12/30/19

| <u>Solution Value</u>   | <u>Instrument Reading</u> | <u>Accuracy</u>  |
|-------------------------|---------------------------|------------------|
| pH 4.00                 | <u>4.00</u>               | ± <u>0</u>       |
| Conductivity 4.49 mS/cm | <u>4.49</u> mS/cm         | ± <u>0</u> mS/cm |
| Turbidity: 0.0 NTU      | <u>0.0</u> NTU            | ± <u>0</u> NTU   |

|                            | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
|----------------------------|-------------------------|---------------------------|-----------------|
| MIST-Traceable Thermometer | <u>25.9</u> °C          | <u>25.9</u> °C            | ± <u>0</u> °C   |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

---

---

---

---

---

---

---

---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: VWKAUNKJ Date/Time: 5/9/18 Inspector: HM  
1130

Solution Manufacturer: Eastern Solutions Lot Number: 171279 Expiration Date: 12/30/19  
-Aurical

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>    |
|--------------------------|---------------------------|--------------------|
| pH 4.00                  | <u>4.01</u>               | $\pm 0.01$         |
| Conductivity: 4.49 mS/cm | <u>5.01</u> mS/cm         | $\pm 0.02$ mS/cm   |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | $\pm \text{X}$ NTU |

| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--|---------------------------|-----------------|
| NIST-Traceable Thermometer: <u>26.2</u> °C | <u>26.5</u> °C            | $\pm 0.3$ °C    |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>   |
|------------------------|---|
| Temperature            | $\pm 1^\circ\text{C}$ against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                                   |
| pH                     | $\pm 0.2$ pH units of stated buffer value                   |
| Turbidity              | 10% of each standard used                                   |

**Inspector's Maintenance Notes**

---

---

---

---

---

---

---

---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: VWALMKJ Date/Time: 5/9/18 Inspector: HM  
1530

Solution Manufacturer: <sup>Eastern Solutions</sup> Aurical Lot Number: 1712d79 Expiration Date: 12/30/19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>    |
|--------------------------|---------------------------|--------------------|
| pH 4.00                  | <u>4.01</u>               | $\pm 0.01$         |
| Conductivity: 4.49 mS/cm | <u>4.46</u> mS/cm         | $\pm 0.03$ mS/cm   |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | $\pm \text{Q}$ NTU |

| <u>Standard Reading</u>                       | <u>Instrument Reading</u> | <u>Accuracy</u> |
|---|---------------------------|-----------------|
| NIST-Traceable<br>Thermometer: <u>26.3</u> °C | <u>26.6</u> °C            | $\pm 0.3$ °C    |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>   |
|------------------------|---|
| Temperature            | $\pm 1^\circ\text{C}$ against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                                   |
| pH                     | $\pm 0.2$ pH units of stated buffer value                   |
| Turbidity              | 10% of each standard used                                   |

**Inspector's Maintenance Notes**

---

---

---

---

---

---

---

---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: YWKALMKU Date/Time: 5/9/18 Inspector: AM  
1720

Solution Manufacturer: Eastern Solutions Lot Number: 1712d79 Expiration Date: 12/30/18  
Aurical

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>  |
|--------------------------|---------------------------|------------------|
| pH 4.00                  | <u>4.03</u>               | $\pm 0.03$       |
| Conductivity: 4.49 mS/cm | <u>4.45</u> mS/cm         | $\pm 0.04$ mS/cm |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | $\pm 0$ NTU      |

| <u>Standard Reading</u>                       | <u>Instrument Reading</u> | <u>Accuracy</u> |
|---|---------------------------|-----------------|
| NIST-Traceable<br>Thermometer: <u>26.8</u> °C | <u>26.6</u> °C            | $\pm 0.2$ °C    |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>   |
|------------------------|---|
| Temperature            | $\pm 1^{\circ}\text{C}$ against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                                     |
| pH                     | $\pm 0.2$ pH units of stated buffer value                     |
| Turbidity              | 10% of each standard used                                     |

**Inspector's Maintenance Notes**

---

---

---

---

---

---

---

---



## HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: YWKAUMKJ Date/Time: 5/10/18 Inspector: HM  
1445

Solution Manufacturer: <sup>SOLUTION SYSTEMS</sup> Aurical Lot Number: 1712d79 Expiration Date: 12/30/19

| <u>Solution Value</u>   | <u>Instrument Reading</u> | <u>Accuracy</u>     |
|-------------------------|---------------------------|---------------------|
| pH 4.00                 | <u>4.00</u>               | ± <u>0</u>          |
| Conductivity 4.49 mS/cm | <u>5.00</u> mS/cm         | ± <u>0.01</u> mS/cm |
| Turbidity 0.0 NTU       | <u>0.0</u> NTU            | ± <u>0</u> NTU      |

|                            | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
|----------------------------|-------------------------|---------------------------|-----------------|
| NIST-Traceable Thermometer | <u>27.1</u> °C          | <u>27.1</u> °C            | ± <u>0</u> °C   |

### QAPP Acceptance Criteria

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

### Inspector's Maintenance Notes

---

---

---

---

---

---

---

---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: VWKA1MKJ Date/Time: 5/10/18 Inspector: HM  
1615

Solution Manufacturer: <sup>Ecochem Solutions</sup> Aurical Lot Number: 1712d79 Expiration Date: 12/30/19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--------------------------|---------------------------|-----------------|
| pH 4.00                  | <u>4.02</u>               | $\pm 0.02$      |
| Conductivity: 4.49 mS/cm | <u>4.49</u> mS/cm         | $\pm 0$ mS/cm   |
| Turbidity 0.0 NTU        | <u>0.0</u> NTU            | $\pm 0$ NTU     |

| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--|---------------------------|-----------------|
| NIST-Traceable Thermometer: <u>27.4</u> °C | <u>27.2</u> °C            | $\pm 0.2$ °C    |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>   |
|------------------------|---|
| Temperature            | $\pm 1^{\circ}\text{C}$ against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                                     |
| pH                     | $\pm 0.2$ pH units of stated buffer value                     |
| Turbidity              | 10% of each standard used                                     |

**Inspector's Maintenance Notes**

---

---

---

---

---

---

---

---





## HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: VWKAUMKJ Date/Time: 5/11/18 Inspector: HM  
0830

Solution Manufacturer: <sup>PHARMACIA SOLUTIONS</sup> Aurical Lot Number: 171249 Expiration Date: 12/30/19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>  |
|--------------------------|---------------------------|------------------|
| pH 4.00                  | <u>4.00</u>               | ± <u>0</u>       |
| Conductivity: 4.49 mS/cm | <u>4.49</u> mS/cm         | ± <u>0</u> mS/cm |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± <u>0</u> NTU   |

| <u>Standard Reading</u>                      | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--|---------------------------|-----------------|
| NIST-Traceable<br>Thermometer <u>25.6</u> °C | <u>25.7</u> °C            | ± <u>0.1</u> °C |

### QAPP Acceptance Criteria

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

### Inspector's Maintenance Notes

---

---

---

---

---

---

---

---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: YWKALMKJ Date/Time: 5/11/18 Inspector: HM  
1230

Solution Manufacturer: <sup>Eastern Solutions</sup> Aurical Lot Number: 1712d19 Expiration Date: 12/30/19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>    |
|--------------------------|---------------------------|--------------------|
| pH 4.00                  | <u>4.02</u>               | $\pm 0.02$         |
| Conductivity: 4.49 mS/cm | <u>5.02</u> mS/cm         | $\pm 0.03$ mS/cm   |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | $\pm \text{Q}$ NTU |

| <u>Standard Reading</u>                       | <u>Instrument Reading</u> | <u>Accuracy</u>   |
|---|---------------------------|-------------------|
| NIST-Traceable<br>Thermometer: <u>26.1</u> °C | <u>26.1</u> °C            | $\pm \text{Q}$ °C |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>   |
|------------------------|---|
| Temperature            | $\pm 1^\circ\text{C}$ against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                                   |
| pH                     | $\pm 0.2$ pH units of stated buffer value                   |
| Turbidity              | 10% of each standard used                                   |

**Inspector's Maintenance Notes**

---

---

---

---

---

---

---

---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: VWKALMKJ

Date/Time: 5/11/18  
1535

Inspector: HM

Solution Manufacturer: <sup>Eastern Solutions</sup> Aurical Lot Number: 1712d79

Expiration Date: 12/30/19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>  |
|--------------------------|---------------------------|------------------|
| pH 4.00                  | <u>4.02</u>               | $\pm 0.02$       |
| Conductivity: 4.49 mS/cm | <u>4.47</u> mS/cm         | $\pm 0.02$ mS/cm |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | $\pm 0$ NTU      |

| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--|---------------------------|-----------------|
| NIST-Traceable Thermometer: <u>26.8</u> °C | <u>26.6</u> °C            | $\pm 0.2$ °C    |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>   |
|------------------------|---|
| Temperature            | $\pm 1^{\circ}\text{C}$ against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                                     |
| pH                     | $\pm 0.2$ pH units of stated buffer value                     |
| Turbidity              | 10% of each standard used                                     |

**Inspector's Maintenance Notes**

---

---

---

---

---

---

---

---



## HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: YWKAUMKJ Date/Time: 5-29-18 1315 Inspector: [Signature]

|                                       |                            |                                  |
|---------------------------------------|----------------------------|----------------------------------|
| Solution Manufacturer: <u>Aurical</u> | Lot Number: <u>1712/79</u> | Expiration Date: <u>12-30-18</u> |
| <u>Solution Value</u>                 | <u>Instrument Reading</u>  | <u>Accuracy</u>                  |
| pH: 4.00                              | <u>4.00</u>                | $\pm 0.00$                       |
| Conductivity: 4.49 mS/cm              | <u>4.47</u> mS/cm          | $\pm 0.02$ mS/cm                 |
| Turbidity: 0.0 NTU                    | <u>0.0</u> NTU             | $\pm 0.0$ NTU                    |

|                            |                         |                           |                 |
|----------------------------|-------------------------|---------------------------|-----------------|
|                            | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
| NIST-Traceable Thermometer | <u>22.4</u> °C          | <u>22.6</u> °C            | $\pm 0.2$ °C    |

### QAPP Acceptance Criteria

|                        |   |
|------------------------|---|
| <u>Field Parameter</u> | <u>Accuracy</u>   |
| Temperature            | $\pm 1^{\circ}\text{C}$ against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                                     |
| pH                     | $\pm 0.2$ pH units of stated buffer value                     |
| Turbidity              | 10% of each standard used                                     |

Inspector's Maintenance Notes

HS#3005

---

---

---

---

---

---

---

---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

Serial Number: VWKAUMKJ Date/Time: 5-29-18 1710 Inspector: *[Signature]*

|   |                            |                                  |
|---|----------------------------|----------------------------------|
| Solution Manufacturer: <u>Eastern Solutions</u><br><small>Artical</small> | Lot Number: <u>1712d79</u> | Expiration Date: <u>12-30-18</u> |
| <u>Solution Value</u>   | <u>Instrument Reading</u>  | <u>Accuracy</u>                  |
| pH: 4.00  | <u>7.02</u>                | $\pm 0.02$                       |
| Conductivity: 4.49 mS/cm  | <u>4.53</u> mS/cm          | $\pm 0.04$ mS/cm                 |
| Turbidity: 0.0 NTU  | <u>0.0</u> NTU             | $\pm 0.0$ NTU                    |

|  |                           |                 |
|--|---------------------------|-----------------|
| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
| NIST-Traceable Thermometer: <u>22.9</u> °C | <u>22.5</u> °C            | $\pm 0.4$ °C    |

**QAPP Acceptance Criteria**

|                        |   |
|------------------------|---|
| <u>Field Parameter</u> | <u>Accuracy</u>   |
| Temperature            | $\pm 1^\circ\text{C}$ against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                                   |
| pH                     | $\pm 0.2$ pH units of stated buffer value                   |
| Turbidity              | 10% of each standard used                                   |

**Inspector's Maintenance Notes**

HS#3005

---

---

---

---

---

---

---

---









## **APPENDIX F**

### **Aquifer Evaluation Forms**

**SUMMARY of SLUG TEST FORM**

**SOUTH CAROLINA  
Department of Health and Environmental Control (DHEC)**

**Site Data**

UST Permit #: 12719 County: Spartanburg  
 Facility Name: Hot Spot #3005

**Slug Data**

See Appendix F Table \_\_\_\_\_ Figure \_\_\_\_\_ for a list of all data measurements.  
 (water level logs, etc.) (Complete as appropriate).

Water Level Recovery Data was measured by Pressure Transducer and Data logger  
 (Hermit Data Logger, Manually with Water Level Indicator, etc.) (List Method).

Complete the following table for each well tested.

**COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED**

|  |            |            |           |  |
|--|------------|------------|-----------|--|
| Slug Test Conducted in well(s) number        | 12719-MW24 | 06567-MW25 | 12719-DW2 |  |
| Initial Rise/Drawdown in well (feet)         | 1.4        | 1.5        | 1.39      |  |
| Radius of Well Casing (feet)                 | 0.0833     | 0.0833     | 0.0833    |  |
| Effective Radius of Well (feet)              | 0.25       | 0.25       | 0.25      |  |
| Static Saturated Aquifer Thickness (feet)    | 50         | 50         | 50        |  |
| Length of Well Screen (feet)                 | 10         | 10         | 5         |  |
| Static Height of Water Column in Well (feet) | 5.9        | 4.9        | 24.4      |  |

**Calculations**

See Appendix F for calculations.

The method for aquifer calculations was Bouwer-Rice (i.e. Bouwer-Rice, Cooper, etc.)

Calculated values by well were as follows:

|                                       |               |               |              |  |
|---------------------------------------|---------------|---------------|--------------|--|
| Slug Test Conducted in well(s) number | 12719-MW24    | 06567-MW25    | 12719-DW2    |  |
| Hydraulic Conductivity                | 0.9198 ft/day | 0.8999 ft/day | 2.241 ft/day |  |

Thickness of the aquifer used to calculate hydraulic conductivity was 50 feet.

The aquifer is    confined    semi-confined   x   water table (Check as appropriate).

The estimated seepage velocity is 49.17 ft/year based on an average hydraulic conductivity of 0.9099 ft/day,  
 a hydraulic gradient of 0.037 ft/ft, and a porosity of 25 percent for a silty soil (list type i.e., silty sand, clay, etc...).

**SUMMARY of SLUG TEST FORM**

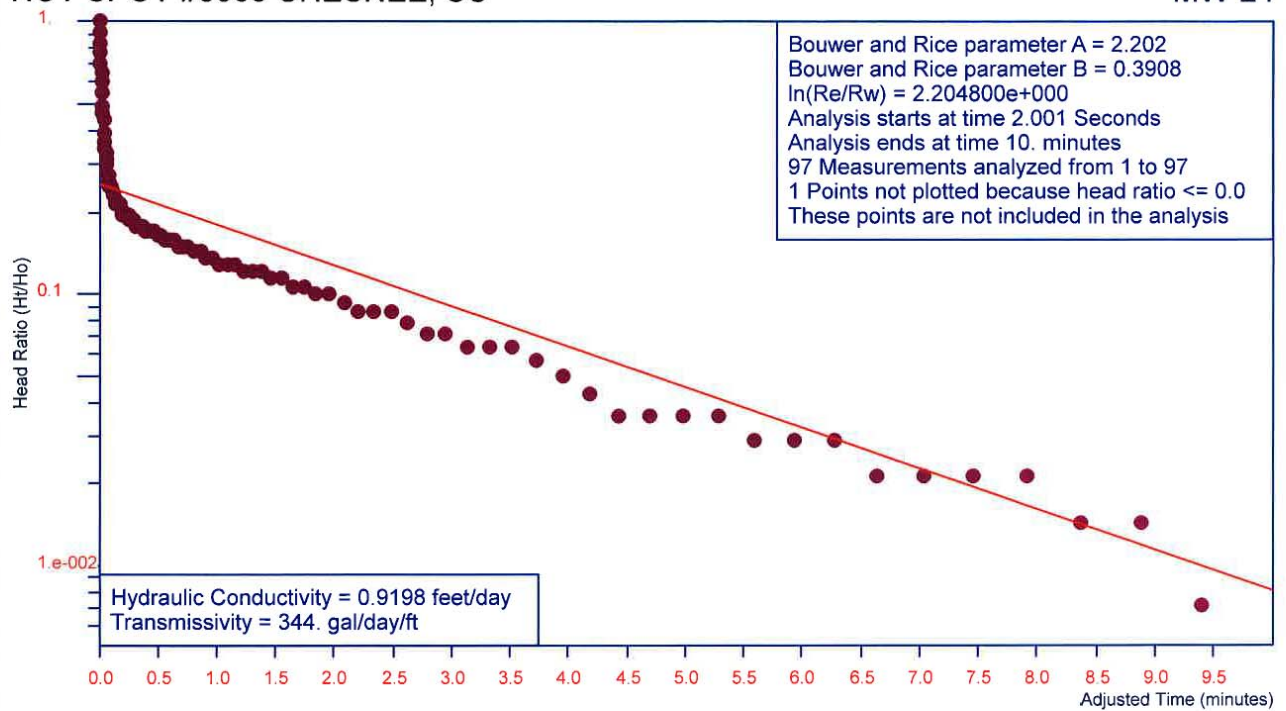
HOT SPOT #3005

### SLUG TEST 6/14/2018

HOT SPOT #3005 CHESNEE, SC

### Bouwer and Rice Graph

MW-24



Project Number: 2230.8I for R L JORDAN  
Analysis by Starpoint Software

$H_o$  is 1.4 feet at 2.001 Seconds

HOT SPOT #3005

## SLUG TEST

Site Name: HOT SPOT #3005  
Location: CHESNEE, SC  
Test Date: 6/14/2018  
Client: R L JORDAN  
Project Number: 2230.81  
Import File: T:\Projects\2230 RLJ\2230.8 - Hot Spot #3005\2230.81 - Hot Spot #3005 - Tie

---

Well Label: MW-24  
Aquifer Thickness: 50. feet  
Screen Length: 10. feet  
Casing Radius: 8.33e-002 feet  
Effective Radius: 0.25 feet  
Static Water Level: 28.1 feet  
Water Table to Screen Bottom: 5.9 feet  
Anisotropy Ratio: 1.  
Time Adjustment: 2.001 Seconds

Test starts with trial 0

There are 97 time and drawdown measurements

Maximum head is 1.4 feet

Minimum head is 0. feet

---

| Trial | Time<br>(Seconds) | Adjusted Time<br>(Seconds) | Drawdown<br>(feet) | Head<br>(feet) | Head Ratio |
|-------|-------------------|----------------------------|--------------------|----------------|------------|
| 1     | 2.001             | 0.                         | 29.5               | 1.4            | 1.         |
| 2     | 2.251             | 0.25                       | 29.38              | 1.28           | 0.9143     |
| 3     | 2.501             | 0.5                        | 29.28              | 1.18           | 0.8429     |
| 4     | 2.751             | 0.75                       | 29.19              | 1.09           | 0.7786     |
| 5     | 3.001             | 1.                         | 29.09              | 0.99           | 0.7071     |
| 6     | 3.251             | 1.25                       | 29.01              | 0.91           | 0.65       |
| 7     | 3.501             | 1.5                        | 28.94              | 0.84           | 0.6        |
| 8     | 3.751             | 1.75                       | 28.87              | 0.77           | 0.55       |
| 9     | 4.001             | 2.                         | 28.79              | 0.69           | 0.4929     |
| 10    | 4.251             | 2.25                       | 28.75              | 0.65           | 0.4643     |
| 11    | 4.501             | 2.5                        | 28.71              | 0.61           | 0.4357     |
| 12    | 4.751             | 2.75                       | 28.65              | 0.55           | 0.3929     |
| 13    | 5.001             | 3.                         | 28.61              | 0.51           | 0.3643     |
| 14    | 5.251             | 3.25                       | 28.58              | 0.48           | 0.3429     |
| 15    | 5.501             | 3.5                        | 28.56              | 0.46           | 0.3286     |
| 16    | 5.751             | 3.75                       | 28.54              | 0.44           | 0.3143     |
| 17    | 6.001             | 4.                         | 28.52              | 0.42           | 0.3        |
| 18    | 6.361             | 4.36                       | 28.49              | 0.39           | 0.2786     |
| 19    | 6.721             | 4.72                       | 28.48              | 0.38           | 0.2714     |
| 20    | 7.141             | 5.14                       | 28.46              | 0.36           | 0.2571     |
| 21    | 7.56              | 5.559                      | 28.45              | 0.35           | 0.25       |
| 22    | 7.98              | 5.979                      | 28.45              | 0.35           | 0.25       |
| 23    | 8.461             | 6.46                       | 28.44              | 0.34           | 0.2429     |
| 24    | 9.                | 6.999                      | 28.42              | 0.32           | 0.2286     |
| 25    | 9.48              | 7.479                      | 28.43              | 0.33           | 0.2357     |
| 26    | 10.08             | 8.079                      | 28.41              | 0.31           | 0.2214     |
| 27    | 10.68             | 8.679                      | 28.4               | 0.3            | 0.2143     |
| 28    | 11.28             | 9.279                      | 28.4               | 0.3            | 0.2143     |
| 29    | 11.94             | 9.939                      | 28.4               | 0.3            | 0.2143     |
| 30    | 12.66             | 10.66                      | 28.4               | 0.3            | 0.2143     |
| 31    | 13.44             | 11.44                      | 28.38              | 0.28           | 0.2        |
| 32    | 14.22             | 12.22                      | 28.37              | 0.27           | 0.1929     |
| 33    | 15.06             | 13.06                      | 28.38              | 0.28           | 0.2        |

6/15/2018

## HOT SPOT #3005

|    |       |       |       |         |            |
|----|-------|-------|-------|---------|------------|
| 34 | 15.96 | 13.96 | 28.37 | 0.27    | 0.1929     |
| 35 | 16.92 | 14.92 | 28.37 | 0.27    | 0.1929     |
| 36 | 17.88 | 15.88 | 28.36 | 0.26    | 0.1857     |
| 37 | 18.96 | 16.96 | 28.36 | 0.26    | 0.1857     |
| 38 | 20.1  | 18.1  | 28.36 | 0.26    | 0.1857     |
| 39 | 21.3  | 19.3  | 28.35 | 0.25    | 0.1786     |
| 40 | 22.56 | 20.56 | 28.35 | 0.25    | 0.1786     |
| 41 | 23.88 | 21.88 | 28.35 | 0.25    | 0.1786     |
| 42 | 25.32 | 23.32 | 28.34 | 0.24    | 0.1714     |
| 43 | 26.82 | 24.82 | 28.34 | 0.24    | 0.1714     |
| 44 | 28.38 | 26.38 | 28.34 | 0.24    | 0.1714     |
| 45 | 30.06 | 28.06 | 28.34 | 0.24    | 0.1714     |
| 46 | 31.86 | 29.86 | 28.33 | 0.23    | 0.1643     |
| 47 | 33.72 | 31.72 | 28.33 | 0.23    | 0.1643     |
| 48 | 35.76 | 33.76 | 28.32 | 0.22    | 0.1571     |
| 49 | 37.86 | 35.86 | 28.32 | 0.22    | 0.1571     |
| 50 | 40.08 | 38.08 | 28.32 | 0.22    | 0.1571     |
| 51 | 42.48 | 40.48 | 28.31 | 0.21    | 0.15       |
| 52 | 45.   | 43.   | 28.31 | 0.21    | 0.15       |
| 53 | 47.64 | 45.64 | 28.31 | 0.21    | 0.15       |
| 54 | 50.46 | 48.46 | 28.3  | 0.2     | 0.1429     |
| 55 | 53.46 | 51.46 | 28.3  | 0.2     | 0.1429     |
| 56 | 56.64 | 54.64 | 28.29 | 0.19    | 0.1357     |
| 57 | 60.   | 58.   | 28.29 | 0.19    | 0.1357     |
| 58 | 63.6  | 61.6  | 28.28 | 0.18    | 0.1286     |
| 59 | 67.2  | 65.2  | 28.28 | 0.18    | 0.1286     |
| 60 | 71.4  | 69.4  | 28.28 | 0.18    | 0.1286     |
| 61 | 75.6  | 73.6  | 28.27 | 0.17    | 0.1214     |
| 62 | 79.8  | 77.8  | 28.27 | 0.17    | 0.1214     |
| 63 | 84.6  | 82.6  | 28.27 | 0.17    | 0.1214     |
| 64 | 90.   | 88.   | 28.26 | 0.16    | 0.1143     |
| 65 | 94.8  | 92.8  | 28.26 | 0.16    | 0.1143     |
| 66 | 100.8 | 98.8  | 28.25 | 0.15    | 0.1071     |
| 67 | 106.8 | 104.8 | 28.25 | 0.15    | 0.1071     |
| 68 | 112.8 | 110.8 | 28.24 | 0.14    | 0.1        |
| 69 | 119.4 | 117.4 | 28.24 | 0.14    | 0.1        |
| 70 | 126.6 | 124.6 | 28.23 | 0.13    | 9.286e-002 |
| 71 | 134.4 | 132.4 | 28.22 | 0.12    | 8.571e-002 |
| 72 | 142.2 | 140.2 | 28.22 | 0.12    | 8.571e-002 |
| 73 | 150.6 | 148.6 | 28.22 | 0.12    | 8.571e-002 |
| 74 | 159.6 | 157.6 | 28.21 | 0.11    | 7.857e-002 |
| 75 | 169.2 | 167.2 | 28.2  | 0.1     | 7.143e-002 |
| 76 | 178.8 | 176.8 | 28.2  | 0.1     | 7.143e-002 |
| 77 | 189.6 | 187.6 | 28.19 | 9.e-002 | 6.429e-002 |
| 78 | 201.  | 199.  | 28.19 | 9.e-002 | 6.429e-002 |
| 79 | 213.  | 211.  | 28.19 | 9.e-002 | 6.429e-002 |
| 80 | 225.6 | 223.6 | 28.18 | 8.e-002 | 5.714e-002 |
| 81 | 238.8 | 236.8 | 28.17 | 7.e-002 | 5.e-002    |
| 82 | 253.2 | 251.2 | 28.16 | 6.e-002 | 4.286e-002 |
| 83 | 268.2 | 266.2 | 28.15 | 5.e-002 | 3.571e-002 |
| 84 | 283.8 | 281.8 | 28.15 | 5.e-002 | 3.571e-002 |
| 85 | 300.6 | 298.6 | 28.15 | 5.e-002 | 3.571e-002 |
| 86 | 318.6 | 316.6 | 28.15 | 5.e-002 | 3.571e-002 |
| 87 | 337.2 | 335.2 | 28.14 | 4.e-002 | 2.857e-002 |
| 88 | 357.6 | 355.6 | 28.14 | 4.e-002 | 2.857e-002 |
| 89 | 378.6 | 376.6 | 28.14 | 4.e-002 | 2.857e-002 |
| 90 | 400.8 | 398.8 | 28.13 | 3.e-002 | 2.143e-002 |

## HOT SPOT #3005

|    |       |       |       |            |            |
|----|-------|-------|-------|------------|------------|
| 91 | 424.8 | 422.8 | 28.13 | 3.e-002    | 2.143e-002 |
| 92 | 450.  | 448.  | 28.13 | 3.e-002    | 2.143e-002 |
| 93 | 476.4 | 474.4 | 28.13 | 3.e-002    | 2.143e-002 |
| 94 | 504.6 | 502.6 | 28.12 | 2.e-002    | 1.429e-002 |
| 95 | 534.6 | 532.6 | 28.12 | 2.e-002    | 1.429e-002 |
| 96 | 566.4 | 564.4 | 28.11 | 1.e-002    | 7.143e-003 |
| 97 | 600.  | 598.  | 28.1  | 5.828e-015 | 4.163e-015 |

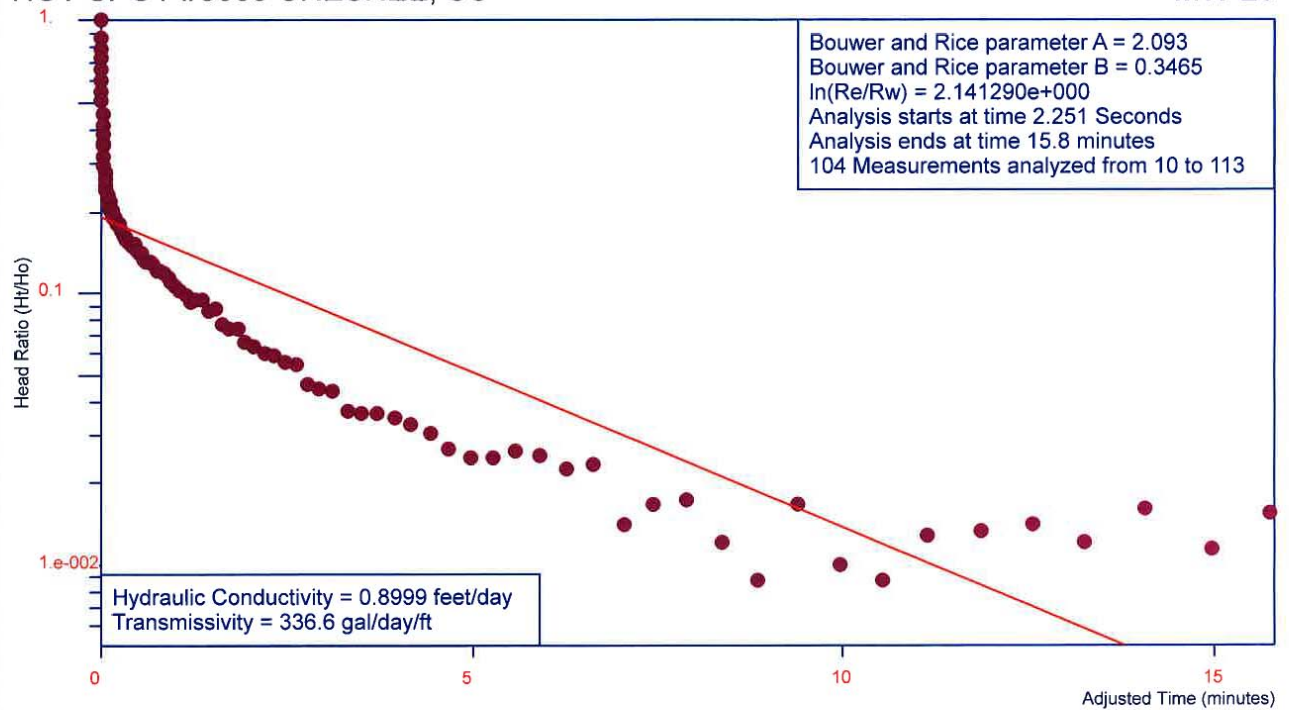
HOT SPOT #3005

### SLUG TEST 6/14/2018

HOT SPOT #3005 CHESNEE, SC

### Bouwer and Rice Graph

MW-25



Project Number: 2230.8I for R L JORDAN  
Analysis by Starpoint Software

$H_o$  is 1.5 feet at 2.251 Seconds

HOT SPOT #3005

## SLUG TEST

Site Name: HOT SPOT #3005  
Location: CHESNEE, SC  
Test Date: 6/14/2018  
Client: R L JORDAN  
Project Number: 2230.8I  
Import File: T:\Projects\2230 RLJ\2230.8 - Hot Spot #3005\2230.8I - Hot Spot #3005 - Tie

Well Label: MW-25  
Aquifer Thickness: 50. feet  
Screen Length: 10. feet  
Casing Radius: 8.33e-002 feet  
Effective Radius: 0.25 feet  
Static Water Level: 25.1 feet  
Water Table to Screen Bottom: 4.9 feet  
Anisotropy Ratio: 1.  
Time Adjustment: 2.251 Seconds

Test starts with trial 9

There are 113 time and drawdown measurements

Maximum head is 1.5 feet

Minimum head is 0. feet

| Trial | Time<br>(Seconds) | Adjusted Time<br>(Seconds) | Drawdown<br>(feet) | Head<br>(feet) | Head Ratio |
|-------|-------------------|----------------------------|--------------------|----------------|------------|
| 1     | 0.                | -2.251                     | 25.1               | 2.e-003        | 1.333e-003 |
| 2     | 0.251             | -2.                        | 25.1               | 5.e-003        | 3.333e-003 |
| 3     | 0.501             | -1.75                      | 25.1               | 5.e-003        | 3.333e-003 |
| 4     | 0.751             | -1.5                       | 25.1               | 3.e-003        | 2.e-003    |
| 5     | 1.001             | -1.25                      | 25.16              | 5.6e-002       | 3.733e-002 |
| 6     | 1.251             | -1.                        | 25.36              | 0.261          | 0.174      |
| 7     | 1.501             | -0.75                      | 25.59              | 0.495          | 0.33       |
| 8     | 1.751             | -0.5                       | 26.3               | 1.197          | 0.798      |
| 9     | 2.001             | -0.25                      | 26.24              | 1.142          | 0.7613     |
| 10    | 2.251             | 0.                         | 26.6               | 1.5            | 1.         |
| 11    | 2.501             | 0.25                       | 26.4               | 1.3            | 0.8667     |
| 12    | 2.751             | 0.5                        | 26.29              | 1.186          | 0.7907     |
| 13    | 3.001             | 0.75                       | 26.19              | 1.093          | 0.7287     |
| 14    | 3.251             | 1.                         | 26.1               | 0.997          | 0.6647     |
| 15    | 3.501             | 1.25                       | 26.01              | 0.912          | 0.608      |
| 16    | 3.751             | 1.5                        | 25.92              | 0.819          | 0.546      |
| 17    | 4.001             | 1.75                       | 25.87              | 0.769          | 0.5127     |
| 18    | 4.251             | 2.                         | 25.79              | 0.687          | 0.458      |
| 19    | 4.501             | 2.25                       | 25.72              | 0.621          | 0.414      |
| 20    | 4.751             | 2.5                        | 25.67              | 0.575          | 0.3833     |
| 21    | 5.001             | 2.75                       | 25.63              | 0.531          | 0.354      |
| 22    | 5.251             | 3.                         | 25.62              | 0.523          | 0.3487     |
| 23    | 5.501             | 3.25                       | 25.58              | 0.48           | 0.32       |
| 24    | 5.751             | 3.5                        | 25.55              | 0.446          | 0.2973     |
| 25    | 6.001             | 3.75                       | 25.51              | 0.415          | 0.2767     |
| 26    | 6.36              | 4.109                      | 25.49              | 0.392          | 0.2613     |
| 27    | 6.721             | 4.47                       | 25.47              | 0.375          | 0.25       |
| 28    | 7.14              | 4.889                      | 25.48              | 0.376          | 0.2507     |
| 29    | 7.56              | 5.309                      | 25.46              | 0.359          | 0.2393     |
| 30    | 7.98              | 5.729                      | 25.45              | 0.345          | 0.23       |
| 31    | 8.461             | 6.21                       | 25.44              | 0.337          | 0.2247     |
| 32    | 9.                | 6.749                      | 25.42              | 0.323          | 0.2153     |
| 33    | 9.48              | 7.229                      | 25.42              | 0.324          | 0.216      |



## HOT SPOT #3005

|    |       |       |       |          |            |
|----|-------|-------|-------|----------|------------|
| 34 | 10.08 | 7.829 | 25.41 | 0.309    | 0.206      |
| 35 | 10.68 | 8.429 | 25.41 | 0.306    | 0.204      |
| 36 | 11.28 | 9.029 | 25.4  | 0.302    | 0.2013     |
| 37 | 11.94 | 9.689 | 25.39 | 0.294    | 0.196      |
| 38 | 12.66 | 10.41 | 25.39 | 0.286    | 0.1907     |
| 39 | 13.44 | 11.19 | 25.39 | 0.287    | 0.1913     |
| 40 | 14.22 | 11.97 | 25.38 | 0.279    | 0.186      |
| 41 | 15.06 | 12.81 | 25.37 | 0.272    | 0.1813     |
| 42 | 15.96 | 13.71 | 25.37 | 0.27     | 0.18       |
| 43 | 16.92 | 14.67 | 25.37 | 0.269    | 0.1793     |
| 44 | 17.88 | 15.63 | 25.36 | 0.265    | 0.1767     |
| 45 | 18.96 | 16.71 | 25.36 | 0.257    | 0.1713     |
| 46 | 20.1  | 17.85 | 25.35 | 0.255    | 0.17       |
| 47 | 21.3  | 19.05 | 25.35 | 0.246    | 0.164      |
| 48 | 22.56 | 20.31 | 25.34 | 0.243    | 0.162      |
| 49 | 23.88 | 21.63 | 25.34 | 0.237    | 0.158      |
| 50 | 25.32 | 23.07 | 25.33 | 0.234    | 0.156      |
| 51 | 26.82 | 24.57 | 25.33 | 0.227    | 0.1513     |
| 52 | 28.38 | 26.13 | 25.32 | 0.223    | 0.1487     |
| 53 | 30.06 | 27.81 | 25.33 | 0.227    | 0.1513     |
| 54 | 31.86 | 29.61 | 25.31 | 0.215    | 0.1433     |
| 55 | 33.72 | 31.47 | 25.31 | 0.212    | 0.1413     |
| 56 | 35.76 | 33.51 | 25.31 | 0.21     | 0.14       |
| 57 | 37.86 | 35.61 | 25.3  | 0.2      | 0.1333     |
| 58 | 40.08 | 37.83 | 25.3  | 0.198    | 0.132      |
| 59 | 42.48 | 40.23 | 25.3  | 0.195    | 0.13       |
| 60 | 45.   | 42.75 | 25.29 | 0.193    | 0.1287     |
| 61 | 47.64 | 45.39 | 25.28 | 0.181    | 0.1207     |
| 62 | 50.46 | 48.21 | 25.28 | 0.181    | 0.1207     |
| 63 | 53.46 | 51.21 | 25.28 | 0.177    | 0.118      |
| 64 | 56.64 | 54.39 | 25.27 | 0.172    | 0.1147     |
| 65 | 60.   | 57.75 | 25.27 | 0.167    | 0.1113     |
| 66 | 63.6  | 61.35 | 25.26 | 0.16     | 0.1067     |
| 67 | 67.2  | 64.95 | 25.25 | 0.152    | 0.1013     |
| 68 | 71.4  | 69.15 | 25.25 | 0.149    | 9.933e-002 |
| 69 | 75.6  | 73.35 | 25.24 | 0.14     | 9.333e-002 |
| 70 | 79.8  | 77.55 | 25.24 | 0.141    | 9.4e-002   |
| 71 | 84.6  | 82.35 | 25.24 | 0.141    | 9.4e-002   |
| 72 | 90.   | 87.75 | 25.23 | 0.13     | 8.667e-002 |
| 73 | 94.8  | 92.55 | 25.23 | 0.132    | 8.8e-002   |
| 74 | 100.8 | 98.55 | 25.22 | 0.115    | 7.667e-002 |
| 75 | 106.8 | 104.5 | 25.21 | 0.112    | 7.467e-002 |
| 76 | 112.8 | 110.5 | 25.21 | 0.112    | 7.467e-002 |
| 77 | 119.4 | 117.1 | 25.2  | 1.e-001  | 6.667e-002 |
| 78 | 126.6 | 124.3 | 25.19 | 9.5e-002 | 6.333e-002 |
| 79 | 134.4 | 132.1 | 25.19 | 9.1e-002 | 6.067e-002 |
| 80 | 142.2 | 139.9 | 25.19 | 8.8e-002 | 5.867e-002 |
| 81 | 150.6 | 148.3 | 25.18 | 8.3e-002 | 5.533e-002 |
| 82 | 159.6 | 157.3 | 25.18 | 8.2e-002 | 5.467e-002 |
| 83 | 169.2 | 166.9 | 25.17 | 6.9e-002 | 4.6e-002   |
| 84 | 178.8 | 176.5 | 25.17 | 6.7e-002 | 4.467e-002 |
| 85 | 189.6 | 187.3 | 25.16 | 6.5e-002 | 4.333e-002 |
| 86 | 201.  | 198.7 | 25.15 | 5.5e-002 | 3.667e-002 |
| 87 | 213.  | 210.7 | 25.15 | 5.4e-002 | 3.6e-002   |
| 88 | 225.6 | 223.3 | 25.15 | 5.4e-002 | 3.6e-002   |
| 89 | 238.8 | 236.5 | 25.15 | 5.2e-002 | 3.467e-002 |
| 90 | 253.2 | 250.9 | 25.15 | 4.9e-002 | 3.267e-002 |

## HOT SPOT #3005

|     |       |       |       |          |            |
|-----|-------|-------|-------|----------|------------|
| 91  | 268.2 | 265.9 | 25.15 | 4.6e-002 | 3.067e-002 |
| 92  | 283.8 | 281.5 | 25.14 | 4.e-002  | 2.667e-002 |
| 93  | 300.6 | 298.3 | 25.14 | 3.7e-002 | 2.467e-002 |
| 94  | 318.6 | 316.3 | 25.14 | 3.7e-002 | 2.467e-002 |
| 95  | 337.2 | 334.9 | 25.14 | 3.9e-002 | 2.6e-002   |
| 96  | 357.6 | 355.3 | 25.14 | 3.8e-002 | 2.533e-002 |
| 97  | 378.6 | 376.3 | 25.13 | 3.4e-002 | 2.267e-002 |
| 98  | 400.8 | 398.5 | 25.14 | 3.5e-002 | 2.333e-002 |
| 99  | 424.8 | 422.5 | 25.12 | 2.1e-002 | 1.4e-002   |
| 100 | 450.  | 447.7 | 25.13 | 2.5e-002 | 1.667e-002 |
| 101 | 476.4 | 474.1 | 25.13 | 2.6e-002 | 1.733e-002 |
| 102 | 504.6 | 502.3 | 25.12 | 1.8e-002 | 1.2e-002   |
| 103 | 534.6 | 532.3 | 25.11 | 1.3e-002 | 8.667e-003 |
| 104 | 566.4 | 564.1 | 25.13 | 2.5e-002 | 1.667e-002 |
| 105 | 600.  | 597.7 | 25.11 | 1.5e-002 | 1.e-002    |
| 106 | 636.  | 633.7 | 25.11 | 1.3e-002 | 8.667e-003 |
| 107 | 672.  | 669.7 | 25.12 | 1.9e-002 | 1.267e-002 |
| 108 | 714.  | 711.7 | 25.12 | 2.e-002  | 1.333e-002 |
| 109 | 756.  | 753.7 | 25.12 | 2.1e-002 | 1.4e-002   |
| 110 | 798.  | 795.7 | 25.12 | 1.8e-002 | 1.2e-002   |
| 111 | 846.  | 843.7 | 25.12 | 2.4e-002 | 1.6e-002   |
| 112 | 900.  | 897.7 | 25.12 | 1.7e-002 | 1.133e-002 |
| 113 | 948.  | 945.7 | 25.12 | 2.3e-002 | 1.533e-002 |

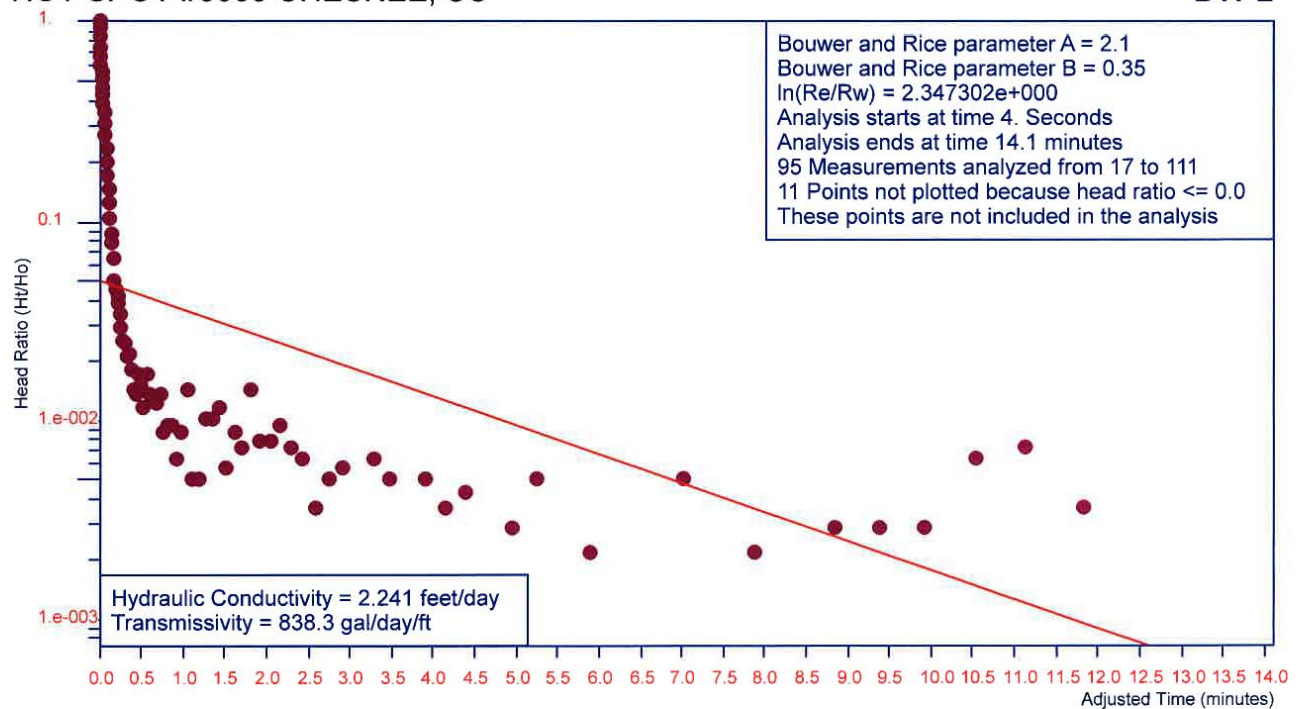
HOT SPOT #3005

### SLUG TEST 6/14/2018

HOT SPOT #3005 CHESNEE, SC

### Bouwer and Rice Graph

DW-2



Project Number: 2230.8I for R L JORDAN  
Analysis by Starpoint Software

$H_o$  is 1.393 feet at 4. Seconds

**SLUG TEST**

Site Name: HOT SPOT #3005  
 Location: CHESNEE, SC  
 Test Date: 6/14/2018  
 Client: R L JORDAN  
 Project Number: 2230.8I  
 Import File: T:\Projects\2230 RLJ\2230.8 - Hot Spot #3005\2230.8I - Hot Spot #3005 - Tie

Well Label: DW-2  
 Aquifer Thickness: 50. feet  
 Screen Length: 5. feet  
 Casing Radius: 8.33e-002 feet  
 Effective Radius: 0.25 feet  
 Static Water Level: 30.56 feet  
 Water Table to Screen Bottom: 24.44 feet  
 Anisotropy Ratio: 1.  
 Time Adjustment: 4. Seconds

Test starts with trial 16

There are 111 time and drawdown measurements

Maximum head is 1.393 feet

Minimum head is -1.9e-002 feet

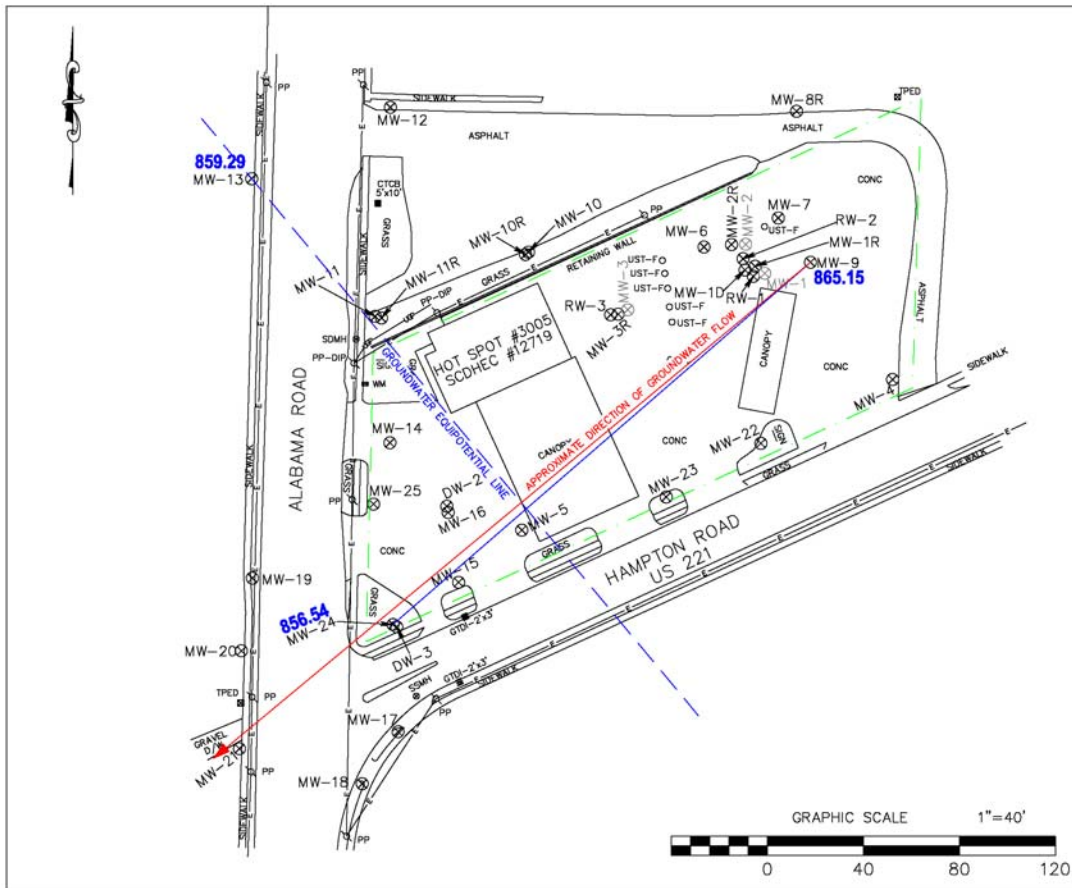
| Trial | Time<br>(Seconds) | Adjusted Time<br>(Seconds) | Drawdown<br>(feet) | Head<br>(feet) | Head Ratio  |
|-------|-------------------|----------------------------|--------------------|----------------|-------------|
| 1     | 0.                | -4.                        | 30.56              | -2.e-003       | -1.436e-003 |
| 2     | 0.25              | -3.75                      | 30.55              | -7.e-003       | -5.025e-003 |
| 3     | 0.543             | -3.457                     | 30.56              | 2.e-003        | 1.436e-003  |
| 4     | 0.75              | -3.25                      | 30.56              | 0.             | 0.          |
| 5     | 1.                | -3.                        | 30.56              | 0.             | 0.          |
| 6     | 1.25              | -2.75                      | 30.58              | 1.6e-002       | 1.149e-002  |
| 7     | 1.5               | -2.5                       | 30.58              | 2.2e-002       | 1.579e-002  |
| 8     | 1.75              | -2.25                      | 30.6               | 4.1e-002       | 2.943e-002  |
| 9     | 2.                | -2.                        | 30.58              | 2.1e-002       | 1.508e-002  |
| 10    | 2.25              | -1.75                      | 30.57              | 5.e-003        | 3.589e-003  |
| 11    | 2.5               | -1.5                       | 30.7               | 0.142          | 0.1019      |
| 12    | 2.75              | -1.25                      | 31.09              | 0.53           | 0.3805      |
| 13    | 3.                | -1.                        | 31.09              | 0.531          | 0.3812      |
| 14    | 3.25              | -0.75                      | 31.21              | 0.648          | 0.4652      |
| 15    | 3.5               | -0.5                       | 31.48              | 0.925          | 0.664       |
| 16    | 3.75              | -0.25                      | 31.79              | 1.226          | 0.8801      |
| 17    | 4.                | 0.                         | 31.95              | 1.393          | 1.          |
| 18    | 4.25              | 0.25                       | 31.95              | 1.389          | 0.9971      |
| 19    | 4.5               | 0.5                        | 31.86              | 1.303          | 0.9354      |
| 20    | 4.75              | 0.75                       | 31.73              | 1.174          | 0.8428      |
| 21    | 5.                | 1.                         | 31.61              | 1.048          | 0.7523      |
| 22    | 5.25              | 1.25                       | 31.5               | 0.938          | 0.6734      |
| 23    | 5.5               | 1.5                        | 31.41              | 0.848          | 0.6088      |
| 24    | 5.75              | 1.75                       | 31.33              | 0.769          | 0.552       |
| 25    | 6.                | 2.                         | 31.28              | 0.722          | 0.5183      |
| 26    | 6.36              | 2.36                       | 31.22              | 0.658          | 0.4724      |
| 27    | 6.72              | 2.72                       | 31.16              | 0.599          | 0.43        |
| 28    | 7.14              | 3.14                       | 31.11              | 0.548          | 0.3934      |
| 29    | 7.56              | 3.56                       | 31.05              | 0.486          | 0.3489      |
| 30    | 7.98              | 3.98                       | 30.99              | 0.435          | 0.3123      |
| 31    | 8.46              | 4.46                       | 30.93              | 0.374          | 0.2685      |
| 32    | 9.                | 5.                         | 30.88              | 0.323          | 0.2319      |
| 33    | 9.48              | 5.48                       | 30.84              | 0.279          | 0.2003      |

## HOT SPOT #3005

|    |       |       |       |          |             |
|----|-------|-------|-------|----------|-------------|
| 34 | 10.08 | 6.08  | 30.8  | 0.238    | 0.1709      |
| 35 | 10.68 | 6.68  | 30.76 | 0.201    | 0.1443      |
| 36 | 11.28 | 7.28  | 30.74 | 0.176    | 0.1263      |
| 37 | 11.94 | 7.94  | 30.7  | 0.144    | 0.1034      |
| 38 | 12.66 | 8.66  | 30.68 | 0.121    | 8.686e-002  |
| 39 | 13.44 | 9.44  | 30.67 | 0.109    | 7.825e-002  |
| 40 | 14.22 | 10.22 | 30.65 | 9.1e-002 | 6.533e-002  |
| 41 | 15.06 | 11.06 | 30.63 | 7.1e-002 | 5.097e-002  |
| 42 | 15.96 | 11.96 | 30.62 | 6.3e-002 | 4.523e-002  |
| 43 | 16.92 | 12.92 | 30.62 | 5.8e-002 | 4.164e-002  |
| 44 | 17.88 | 13.88 | 30.61 | 5.4e-002 | 3.877e-002  |
| 45 | 18.96 | 14.96 | 30.61 | 4.8e-002 | 3.446e-002  |
| 46 | 20.1  | 16.1  | 30.6  | 4.1e-002 | 2.943e-002  |
| 47 | 21.3  | 17.3  | 30.59 | 3.5e-002 | 2.513e-002  |
| 48 | 22.56 | 18.56 | 30.59 | 3.4e-002 | 2.441e-002  |
| 49 | 23.88 | 19.88 | 30.59 | 2.9e-002 | 2.082e-002  |
| 50 | 25.32 | 21.32 | 30.59 | 3.e-002  | 2.154e-002  |
| 51 | 26.82 | 22.82 | 30.58 | 2.5e-002 | 1.795e-002  |
| 52 | 28.38 | 24.38 | 30.58 | 2.e-002  | 1.436e-002  |
| 53 | 30.06 | 26.06 | 30.58 | 1.9e-002 | 1.364e-002  |
| 54 | 31.86 | 27.86 | 30.58 | 2.4e-002 | 1.723e-002  |
| 55 | 33.72 | 29.72 | 30.58 | 2.1e-002 | 1.508e-002  |
| 56 | 35.76 | 31.76 | 30.58 | 1.6e-002 | 1.149e-002  |
| 57 | 37.86 | 33.86 | 30.58 | 2.4e-002 | 1.723e-002  |
| 58 | 40.08 | 36.08 | 30.58 | 1.9e-002 | 1.364e-002  |
| 59 | 42.48 | 38.48 | 30.58 | 1.8e-002 | 1.292e-002  |
| 60 | 45.   | 41.   | 30.58 | 1.7e-002 | 1.22e-002   |
| 61 | 47.64 | 43.64 | 30.58 | 1.9e-002 | 1.364e-002  |
| 62 | 50.46 | 46.46 | 30.57 | 1.2e-002 | 8.615e-003  |
| 63 | 53.46 | 49.46 | 30.57 | 1.3e-002 | 9.332e-003  |
| 64 | 56.64 | 52.64 | 30.57 | 1.3e-002 | 9.332e-003  |
| 65 | 60.   | 56.   | 30.57 | 9.e-003  | 6.461e-003  |
| 66 | 63.6  | 59.6  | 30.57 | 1.2e-002 | 8.615e-003  |
| 67 | 67.2  | 63.2  | 30.58 | 2.e-002  | 1.436e-002  |
| 68 | 71.4  | 67.4  | 30.57 | 7.e-003  | 5.025e-003  |
| 69 | 75.6  | 71.6  | 30.57 | 7.e-003  | 5.025e-003  |
| 70 | 79.8  | 75.8  | 30.57 | 1.4e-002 | 1.005e-002  |
| 71 | 84.6  | 80.6  | 30.57 | 1.4e-002 | 1.005e-002  |
| 72 | 90.   | 86.   | 30.58 | 1.6e-002 | 1.149e-002  |
| 73 | 94.8  | 90.8  | 30.57 | 8.e-003  | 5.743e-003  |
| 74 | 100.8 | 96.8  | 30.57 | 1.2e-002 | 8.615e-003  |
| 75 | 106.8 | 102.8 | 30.57 | 1.e-002  | 7.179e-003  |
| 76 | 112.8 | 108.8 | 30.58 | 2.e-002  | 1.436e-002  |
| 77 | 119.4 | 115.4 | 30.57 | 1.1e-002 | 7.897e-003  |
| 78 | 126.6 | 122.6 | 30.57 | 1.1e-002 | 7.897e-003  |
| 79 | 134.4 | 130.4 | 30.57 | 1.3e-002 | 9.332e-003  |
| 80 | 142.2 | 138.2 | 30.57 | 1.e-002  | 7.179e-003  |
| 81 | 150.6 | 146.6 | 30.57 | 9.e-003  | 6.461e-003  |
| 82 | 159.6 | 155.6 | 30.57 | 5.e-003  | 3.589e-003  |
| 83 | 169.2 | 165.2 | 30.57 | 7.e-003  | 5.025e-003  |
| 84 | 178.8 | 174.8 | 30.57 | 8.e-003  | 5.743e-003  |
| 85 | 189.6 | 185.6 | 30.56 | 1.e-003  | 7.179e-004  |
| 86 | 201.  | 197.  | 30.57 | 9.e-003  | 6.461e-003  |
| 87 | 213.  | 209.  | 30.57 | 7.e-003  | 5.025e-003  |
| 88 | 225.6 | 221.6 | 30.56 | -2.e-003 | -1.436e-003 |
| 89 | 238.8 | 234.8 | 30.57 | 7.e-003  | 5.025e-003  |
| 90 | 253.2 | 249.2 | 30.57 | 5.e-003  | 3.589e-003  |

## HOT SPOT #3005

|     |       |       |       |           |             |
|-----|-------|-------|-------|-----------|-------------|
| 91  | 268.2 | 264.2 | 30.57 | 6.e-003   | 4.307e-003  |
| 92  | 283.8 | 279.8 | 30.56 | -4.e-003  | -2.872e-003 |
| 93  | 300.6 | 296.6 | 30.56 | 4.e-003   | 2.872e-003  |
| 94  | 318.6 | 314.6 | 30.57 | 7.e-003   | 5.025e-003  |
| 95  | 337.2 | 333.2 | 30.56 | -1.e-003  | -7.179e-004 |
| 96  | 357.6 | 353.6 | 30.56 | 3.e-003   | 2.154e-003  |
| 97  | 378.6 | 374.6 | 30.56 | -1.e-003  | -7.179e-004 |
| 98  | 400.8 | 396.8 | 30.54 | -1.9e-002 | -1.364e-002 |
| 99  | 424.8 | 420.8 | 30.57 | 7.e-003   | 5.025e-003  |
| 100 | 450.  | 446.  | 30.55 | -7.e-003  | -5.025e-003 |
| 101 | 476.4 | 472.4 | 30.56 | 3.e-003   | 2.154e-003  |
| 102 | 504.6 | 500.6 | 30.56 | 1.e-003   | 7.179e-004  |
| 103 | 534.6 | 530.6 | 30.56 | 4.e-003   | 2.872e-003  |
| 104 | 566.4 | 562.4 | 30.56 | 4.e-003   | 2.872e-003  |
| 105 | 600.  | 596.  | 30.56 | 4.e-003   | 2.872e-003  |
| 106 | 636.  | 632.  | 30.57 | 9.e-003   | 6.461e-003  |
| 107 | 672.  | 668.  | 30.57 | 1.e-002   | 7.179e-003  |
| 108 | 714.  | 710.  | 30.57 | 5.e-003   | 3.589e-003  |
| 109 | 756.  | 752.  | 30.55 | -9.e-003  | -6.461e-003 |
| 110 | 798.  | 794.  | 30.55 | -1.e-002  | -7.179e-003 |
| 111 | 846.  | 842.  | 30.56 | -3.e-003  | -2.154e-003 |



- LEGEND & ABBREVIATIONS:**
- ⊗ MW = MONITORING WELL
  - ⊗ ABANDONED MONITORING WELL
  - ⊗ TPED = TELEPHONE PEDESTAL
  - ⊗ SDMH = STORM DRAIN MAN HOLE
  - ⊗ SSMH = SANITARY SEWER MAN HOLE
  - ⊗ WM = WATER METER
  - ⊗ PP = POWER POLE
  - ⊗ LP = LIGHT POLE
  - ⊗ GM = GAS METER
  - ⊗ CV = GAS VALVE
  - ⊗ USTF = UNDERGROUND STORAGE TANK FILL
  - GTCB = GRATE TOP CATCH BASIN
  - SIGN = SIGN
  - ⊗ KD = KEROSENE DISPENSER
  - E — = OVERHEAD POWER LINE
  - UFP — = UNDERGROUND POWER LINE
  - — — = APPROXIMATE PROPERTY LINE
- ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (ie. 12719-MW 1)

**HYDRAULIC GRADIENT CALCULATIONS**

$(865.15 - 856.54) / 230.23 = (865.15 - 859.29) / X$

$8.61X \text{ ft} = 1,349.15 \text{ ft}$

$X = 156.70 \text{ ft}$

$DL/L = (865.15 - 859.29 \text{ ft}) / 156.67 \text{ ft}$

$DL/L = 0.037 \text{ ft/ft}$



**FIGURE F**  
**HYDRAULIC GRADIENT MAP**

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

|                            |                           |
|----------------------------|---------------------------|
| TERRY PROJECT #<br>2230.81 | SCDHCC SITE ID #<br>12719 |
| SCALE<br>1" = 40'          | DATE<br>July 2018         |

**APPENDIX G**

**Disposal Manifests**



2<sup>ND</sup> TRIP

|  |   |  |  |               |                                 |   |          |                                   |          |  |
|--|---|--|--|---------------|---------------------------------|---|----------|-----------------------------------|----------|--|
| GENERATOR  | NON-HAZARDOUS WASTE MANIFEST  | 1 Generator ID Number<br>Terry Environmental |  | 2 Page 1 of 1 |                                 | 3 Job Number<br>D-05241541  |          | 4 Waste Tracking Number<br>1541-1 |          |  |
|  | 5. Generator's Name and Mailing Address<br>RL Jordan Oil Company<br>PO Box 2527<br>Spartanburg, SC 29304                            |  |  |               |                                 | Generator's Site Address (if different than mailing address)<br>Hot Spot #3005<br>107 Hampton Street<br>Chesnee, SC 29323 |          |                                   |          |  |
|  | 6. Transporter 1 Company Name<br>JBR Environmental Services (864) 583-2717  |  |  |               |                                 | US EPA ID Number<br>SCR000004358  |          |                                   |          |  |
|  | 7. Transporter 2 Company Name   |  |  |               |                                 | US EPA ID Number  |          |                                   |          |  |
|  | 8. Designated Facility Name and Site Address<br>JBR Environmental Services<br>210 Alice St.<br>Spartanburg, SC 29303 (864) 583-2717 |  |  |               |                                 | US EPA ID Number  |          |                                   |          |  |
|  | Facility's Phone:   |  |  |               |                                 | GROSS   SCR000004358 33,240   |          |                                   |          |  |
|  | 9. Waste Shipping Name and Description  |  |  |               | 10. Containers                  |   | 11 Total |                                   | 12 Unit  |  |
|  |   |  |  |               | No                              |   | Type     |                                   |          |  |
|  | 1. Non-DOT /Non-RCRA Regulated Material<br>Soil Cuttings  |  |  |               | 24                              |   | DM       |                                   | 16,000 P |  |
|  | 2. Purge Water  |  |  |               | 5                               |   | DM       |                                   | 1,240 P  |  |
| 3.   |   |  |  |               |                                 |   |          |                                   |          |  |
| 4.   |   |  |  |               |                                 |   |          | 17,240 lbs                        |          |  |
|  |   |  |  |               |                                 |   |          | 8,626                             |          |  |
| 13. Special Handling Instructions and Additional Information   |   |  |  |               |                                 |   |          |                                   |          |  |
| 1.) Profile # TE-516043  |   |  |  |               | (Truck Number) 24               |   |          |                                   |          |  |
| 2.) Profile # TE-518257  |   |  |  |               |                                 |   |          |                                   |          |  |
| 3.) Profile #  |   |  |  |               | (Type if Applicable) BT         |   |          |                                   |          |  |
| 4.) Profile #  |   |  |  |               |                                 |   |          |                                   |          |  |
| 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations |   |  |  |               |                                 |   |          |                                   |          |  |
| Generator's Operator's Printed/Typed Name<br>L.K. Cowe assigned RL Jordan  |   |  |  |               | Signature<br><i>[Signature]</i> |   |          | Month Day Year<br>05 24 18        |          |  |
| 15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit _____ Date leaving U.S. _____   |   |  |  |               |                                 |   |          |                                   |          |  |
| 16. Transporter Acknowledgment of Receipt of Materials   |   |  |  |               |                                 |   |          |                                   |          |  |
| Transporter 1 Printed/Typed Name<br>Tim Chumley  |   |  |  |               | Signature<br><i>[Signature]</i> |   |          | Month Day Year<br>5 30 18         |          |  |
| Transporter 2 Printed/Typed Name   |   |  |  |               | Signature                       |   |          | Month Day Year                    |          |  |
| 17. Discrepancy  |   |  |  |               |                                 |   |          |                                   |          |  |
| 17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection  |   |  |  |               |                                 |   |          |                                   |          |  |
| 17b. Alternate Facility (or Generator) _____ Manifest Reference Number: _____ US EPA ID Number _____   |   |  |  |               |                                 |   |          |                                   |          |  |
| 17c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____   |   |  |  |               |                                 |   |          |                                   |          |  |
| 18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in item 17a  |   |  |  |               |                                 |   |          |                                   |          |  |
| Printed/Typed Name<br>Josh Goodie  |   |  |  |               | Signature<br><i>[Signature]</i> |   |          | Month Day Year<br>5 30 18         |          |  |

1st Trip

|  |  |  |   |                            |                                   |
|--|--|--|---|----------------------------|-----------------------------------|
| <b>NON-HAZARDOUS WASTE MANIFEST</b>  |  | 1 Generator ID Number<br>Terry Environmental | 2 Page 1 of<br>1  | 3 Job Number<br>D-05241541 | 4 Waste Tracking Number<br>1541-1 |
| 5. Generator's Name and Mailing Address<br>RL Jordan Oil Company<br>PO Box 2527<br>Spartanburg, SC 29304   |  |  | Generator's Site Address (if different than mailing address)<br>Hot Spot #3005<br>107 Hampton Street<br>Chesnee, SC 29323 |                            |                                   |
| Generator's Phone  |  |  | U S EPA ID Number   |                            |                                   |
| 6. Transporter 1 Company Name<br>JBR Environmental Services (864) 583-2717   |  |  | SCR000004358  |                            |                                   |
| 7. Transporter 2 Company Name  |  |  | U S EPA ID Number   |                            |                                   |
| 8. Designated Facility Name and Site Address<br>JBR Environmental Services<br>210 Alice St.<br>Spartanburg, SC 29303 (864) 583-2717  |  |  | U S EPA ID Number   |                            |                                   |
| Facility's Phone:  |  |  | GROSS SCR000004358 34,320   |                            |                                   |
| 9. Waste Shipping Name and Description   |  | 10. Containers                               |   | 11 Total                   | 12 Unit                           |
|  |  | No   | Type  |                            |                                   |
| 1. Non-DOT /Non-RCRA Regulated Material<br>Soil Cuttings   |  | 28   | DM  | 18,000                     | P                                 |
| 2. Purge Water   |  | 0  | DM  |                            | P                                 |
| 3.   |  |  |   |                            |                                   |
| 4.   |  |  |   |                            | (94)                              |
| 13. Special Handling Instructions and Additional Information   |  |  |   |                            |                                   |
| 1.) Profile # TE-516043 (Truck Number) 24  |  |  |   |                            |                                   |
| 2.) Profile # TE-518257  |  |  |   |                            |                                   |
| 3.) Profile #  |  |  |   |                            |                                   |
| 4.) Profile # (Type if Applicable) 15T   |  |  |   |                            |                                   |
| 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations |  |  |   |                            |                                   |
| Generator's Offeror's Printed/Typed Name<br>C.K. Co. as agent of RL Jordan   |  |  | Signature<br>[Signature]  |                            | Month Day Year<br>05 24 18        |
| 15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit _____ Date leaving U.S. _____   |  |  |   |                            |                                   |
| 16. Transporter Acknowledgment of Receipt of Materials   |  |  |   |                            |                                   |
| Transporter 1 Printed/Typed Name<br>Tim Chumbley   |  |  | Signature<br>T. Chumbley  |                            | Month Day Year<br>5 30 18         |
| Transporter 2 Printed/Typed Name   |  |  | Signature   |                            | Month Day Year                    |
| 17. Discrepancy  |  |  |   |                            |                                   |
| 17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection  |  |  |   |                            |                                   |
| Manifest Reference Number: _____   |  |  |   |                            |                                   |
| 17b. Alternate Facility (or Generator)   |  |  | U S EPA ID Number   |                            |                                   |
| Facility's Phone   |  |  |   |                            |                                   |
| 17c. Signature of Alternate Facility (or Generator)  |  |  | Month Day Year  |                            |                                   |
| 18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in item 17a  |  |  |   |                            |                                   |
| Printed/Typed Name<br>Josh Coade   |  |  | Signature<br>[Signature]  |                            | Month Day Year<br>5 30 18         |

# US Water Recovery

|   |            |   |  |
|---|------------|---|--|
| <b>Non-Hazardous Manifest: Waste Water or Drums</b>   |            | <b>Number:</b>  |  |
| 1. Generator's EPA ID# (if applicable):   |            | Waste ID Number:  |  |
| 2. Generator's Name and Mailing Address:<br><i>Hot Spot #3005 Chesnee, SC</i>   |            | Phone ( )   | <i>UST-12719</i>                             |
|   |            | P O #:  |  |
| 3. Agent of Generator and Mailing Address:<br><i>Jerry Environmental Services PO Box 25 Summerville, SC 29484</i>   |            | Phone (843) 873-8200  |  |
|   |            | P O #:  | <i>2230.8I</i>                               |
| 4. Transporter Company Name:<br><i>↓</i>  |            | Phone ( )   |  |
| Truck & Trailer License Number:   |            |   |  |
| 5. Transporter U.S. EPA ID#:  |            |   |  |
| 6. Facility Name and Site Address:<br>US Water Recovery<br>511 Old Mt. Holly Rd.<br>Goose Creek, SC 29445   |            | Mailing Address:<br>US Water Recovery<br>511 Old Mt. Holly Rd.<br>Goose Creek, SC 29445 | Phone: (843) 797-3111<br>Fax: (843) 797-1884 |
| 7. Facility U.S. EPA ID#:   |            |   |  |
| Start Level:  | End Level: | Total Gallons:  | Tank Number                                  |
| 8. U.S. DOT Description   |            | Container   | Unit   |
|   |            | No.   | Type   |
| a. Non-Hazardous, non-regulated waste water   |            |   | <i>gal</i>                                   |
|   |            |   | <i>70 seventy</i>                            |
|   |            |   |  |
|   |            |   |  |
| 9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility. |            |   |  |
| Printed/Typed Name: <i>Langston Jones</i>   |            | Signature: <i>Langston Jones</i>  | Date: <i>5-31-18</i>                         |
| 10. Transporter Acknowledgement of Receipt of Materials   |            |   |  |
| Printed/Typed Name: <i>Ryan Palmer</i>  |            | Signature: <i>Ryan Palmer</i>   | Date: <i>6/4/18</i>                          |
| 11. Discrepancy Indication space:   |            |   |  |
| 12. Facility Owner or Operator: Certification of Receipt of Materials   |            |   |  |
| Printed/Typed Name: <i>Daniel Ward</i>  |            | Signature: <i>Daniel Ward</i>   | Date: <i>6-4-18</i>                          |

White - Facility      Yellow - Office      Pink - Transporter      Blue - Generator

19563

**APPENDIX H**

**Local Zoning Regulations  
(Not Applicable)**

## **APPENDIX I**

### **Fate and Transport Modeling Data (Not Applicable)**

## **APPENDIX J**

### **Access Agreements**

**RIGHT OF ENTRY**

I, Kerry Comer certify that I am the legal owner or the authorized representative for Comer, Irvin Keith Sr. Trus/Kerry (owner) of the property described below. Permission is hereby granted to TERRY Environmental Services, Inc. (TERRY) and its agents to enter the referenced property for the following purposes:

Name of Facility: Commercial Property (North Alabama Avenue & Hampton Street)  
Property as defined by Tax Parcel # 2-14-09-301.00  
Location: North Alabama Avenue & Hampton Street  
Deed Book: 86N  
Deed Page: 276  
Plat Book: -  
Plat Page: -  
Acres: -

Performance of environmental assessment activities including soil boring, ~~well installation,~~ sampling, and/or testing as directed by the South Carolina Department of Health and Environmental Control (SCDHEC) Bureau of Underground Storage Tank Management.

TERRY will perform its work on the Property in a good and workmanlike manner. ~~TERRY will keep the Wells in good maintenance and repair while they are installed on the Property.~~

~~Once SCDHEC determines "No Further Action" is required at the Hot Spot #3005, the monitoring wells on your property will be removed. TERRY will complete the work within 60 days of written notice from SCDHEC and will restore the Property to the same condition as exists in the area immediately surrounding the well (i.e. asphalt, concrete, or turf).~~

No permanent monitoring wells will be installed during this scope of work.

Name: Kerry Comer  
Signature: [Signature]  
Telephone #: 864-809-9429  
Witness: [Signature]  
Date: 1-24-18

Terry Project: Hot Spot #3005- 2230.81

*We want the Results of Test.*

**RIGHT OF ENTRY**

I, JIMMY DOAN certify that I am the legal owner or the authorized representative for Doan Enterprises Inc (owner) of the properties described below. Permission is hereby granted to TERRY Environmental Services, Inc. (TERRY) and its agents to enter the referenced properties for the following purposes:

Name of Facility: Residential Properties (201 N Alabama Avenue; Lots 1-6)  
Property as defined by Tax Parcel #2-14-09-193.00 thru #2-14-09-193.05  
Location: 201 North Alabama Avenue  
Deed Book: 102L  
Deed Page: 831  
Plat Book: -  
Plat Page: -  
Acres: -

Performance of environmental assessment activities including soil boring, well installation, sampling, and/or testing as directed by the South Carolina Department of Health and Environmental Control (SCDHEC) Bureau of Underground Storage Tank Management.

TERRY will perform its work on the Property in a good and workmanlike manner, and will keep the Wells in good maintenance and repair while they are installed on the Property.

Once SCDHEC determines "No Further Action" is required at the Hot Spot #3005, the monitoring wells on your properties will be removed. TERRY will complete the work within 60 days of written notice from SCDHEC and will restore the Property to the same condition as exists in the area immediately surrounding the well (i.e. asphalt, concrete, or turf).

Name: JIMMY DOAN

Signature: 

Telephone #: 727 267 0857

Witness: ANHDAO TRAN

Date: 12/31/2017

Terry Project: Hot Spot #3005- 2230.8I



**RIGHT OF ENTRY**

I, Michael E. Henderson certify that I am the legal owner or the authorized representative for Michael E. Henderson (owner) of the properties described below. Permission is hereby granted to TERRY Environmental Services, Inc. (TERRY) and its agents to enter the referenced properties for the following purposes:

Name of Facility: Undeveloped Properties (N Alabama Avenue; Lots 22-23)  
Property as defined by Tax Parcel #2-14-05-188.00 thru #2-14-09-192.00  
Location: North Alabama Avenue  
Deed Book: 59G  
Deed Page: 664  
Plat Book: -  
Plat Page: -  
Acres: -

*No Payment Well At this time  
Mizf*

Performance of environmental assessment activities including soil boring, ~~well installation~~ sampling, and/or testing as directed by the South Carolina Department of Health and Environmental Control (SCDHEC) Bureau of Underground Storage Tank Management.

TERRY will perform its work on the Property in a good and workmanlike manner, and will keep the Wells in good maintenance and repair while they are installed on the Property.

Once SCDHEC determines "No Further Action" is required at the Hot Spot #3005, the monitoring wells on your properties will be removed. TERRY will complete the work within 60 days of written notice from SCDHEC and will restore the Property to the same condition as exists in the area immediately surrounding the well (i.e. asphalt, concrete, or turf).

Name: Michael E. Henderson

Signature: [Handwritten Signature]

Telephone #: 864-316-9798

Witness: \_\_\_\_\_

Date: 1/16/18

Terry Project: Hot Spot #3005- 2230.8I

**RIGHT OF ENTRY**

Steve Henderson certify that I am the legal owner or the authorized representative for Steve Henderson (owner) of the property described below. Permission is hereby granted to TERRY Environmental Services, Inc. (TERRY) and its agents to enter the referenced property for the following purposes:

Name of Facility: Commercial Property (212 North Alabama Avenue)  
Property as defined by Tax Parcel # 2-14-05-206.00  
Location: 212 North Alabama Avenue  
Deed Book: 103Q  
Deed Page: 182  
Plat Book: -  
Plat Page: -  
Acres: -

Performance of environmental assessment activities including soil boring, well installation, sampling, and/or testing as directed by the South Carolina Department of Health and Environmental Control (SCDHEC) Bureau of Underground Storage Tank Management.

TERRY will perform its work on the Property in a good and workmanlike manner, and will keep the Wells in good maintenance and repair while they are installed on the Property.

Once SCDHEC determines "No Further Action" is required at the Hot Spot #3005, the monitoring wells on your property will be removed. TERRY will complete the work within 60 days of written notice from SCDHEC and will restore the Property to the same condition as exists in the area immediately surrounding the well (i.e. asphalt, concrete, or turf).

Name: STEVE HENDERSON

Signature: Steve Henderson

Telephone #: 864-461-4183

Witness: Wendy Henderson

Date: 11-16-2017

Terry Project: Hot Spot #3005-2230.8I

**RIGHT OF ENTRY**

I, Barbara Thorne certify that I am the legal owner or the authorized representative for Barbara S. Thorne etal (owner) of the property described below. Permission is hereby granted to TERRY Environmental Services, Inc. (TERRY) and its agents to enter the referenced property for the following purposes:

Name of Facility: Commercial Property (106 Hampton Street)  
Property as defined by Tax Parcel # 2-14-10-001.00  
Location: 106 Hampton Street  
Deed Book: 94Y  
Deed Page: 607  
Plat Book: -  
Plat Page: -  
Acres: -

Performance of environmental assessment activities including soil boring, well installation, sampling, and/or testing as directed by the South Carolina Department of Health and Environmental Control (SCDHEC) Bureau of Underground Storage Tank Management.

TERRY will perform its work on the Property in a good and workmanlike manner, and will keep the Wells in good maintenance and repair while they are installed on the Property.

Once SCDHEC determines "No Further Action" is required at the Hot Spot #3005, the monitoring wells on your property will be removed. TERRY will complete the work within 60 days of written notice from SCDHEC and will restore the Property to the same condition as exists in the area immediately surrounding the well (i.e. asphalt, concrete, or turf).

Name: Barbara Thorne

Signature: Barbara Thorne

Telephone #: 864-680-1670

Witness: Juan Blaser

Date: 12-15-2017

Terry Project: Hot Spot #3005- 2230.81

**SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION  
Encroachment Permit**

Permit No : 210037

Permit Decision Date :

2/22/2018

Expiration Date : 2/22/2019

Type

Permit : ENVIRONMENTAL

Location:

| <u>District</u> | <u>Work County</u> | <u>Type</u> | <u>Route</u> | <u>Aux</u> | <u>Begin MP</u> | <u>End MP</u> |
|-----------------|--------------------|-------------|--------------|------------|-----------------|---------------|
| 3               | Spartanburg, SC    | L-          | 3301         | None       | 0.010           | 0.010         |
| 3               | Spartanburg, SC    | US          | 221          | None       | 41.287          | 41.287        |

Contact Information

Applicant: TerryEnvironmental

Phone:

Contact: Kelly Cone

Address: PO Box 25,

City: Summerville

State: SC

Zip: 29484

Comments

Requesting access along both sides of Hampton Street and North Alabama Avenue. No wells are proposed in the travel lanes. This work is being conducted as part of an environmental assessment directed by SCDHEC.

Special Provisions:

0003 - WHEN ROADS ARE RESURFACED, SHOULDERS SHALL BE REGRADED TO THE EDGE OF PAVEMENT TO CONFORM TO THE DEPARTMENT SPECIFICATIONS.

0004 - SCDOT SHALL BE NOTIFIED WHEN WORK DEFINED IN THE PERMIT STARTS AS WELL AS WHEN THE WORK IS COMPLETED. REFERENCE SHALL BE MADE BY PERMIT NUMBER.

0104 - ALL VALVES AND MANHOLES SHALL CONFORM TO THE EXISTING ELEVATION OF THE ROADWAY OR SHOULDER AND CONFORM TO THE ACCEPTED STANDARD. THE VALVES WILL BE LOCATED OUT OF THE PAVEMENT. THEY SHALL NOT BE PLACED IN A DITCH FLOW LINE.

0105 - ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE SIDE OF THE TRENCH AWAY FROM THE TRAVELED ROADWAY, AND SHALL BE NO CLOSER THAN FIFTEEN (15) FEET TO THE EDGE OF PAVEMENT.

0106 - MANHOLES SHALL CONFORM TO THE ELEVATION OF THE EXISTING ROADWAY OR SHOULDER AND CONSTRUCTED IN ACCORDANCE WITH ACCEPTED PRACTICES.

0107 - TRENCH TO BE PROPERLY BACK-FILLED AND THOROUGHLY TAMPED. THE ENTIRE DISTURBED AREA SHALL BE RE-SHAPED AND DRESSED OUT IN A

WORKMANSHIP LIKE MANNER.

0209 - DISTURBED VEGETATION SHALL BE RESEDED ACCORDING TO THE SPECIFICATION FOR HIGHWAY CONSTRUCTION.

0301 - THE DITCHES AND/OR SHOULDERS DISTURBED DURING THE INSTALLATION SHALL BE RE-ESTABLISHED TO PROPER GRADE, ORIGINAL CROSS SECTION, STABILIZED, AND ALL DRAIN PIPES CLEARED.

0302 - NO EXCAVATION SHALL BE LEFT OPEN ALONG HIGHWAY.

0307 - NO PART OF THE TRAVEL-WAY IS TO BE BLOCKED DURING CONSTRUCTION AND MAINTENANCE.

0308 - WORK SHALL NOT BE PERFORMED DURING THE HOURS OF 7-9 AM OR 4-6 PM.

0317 - THE APPLICANT IS TO PROVIDE ALL THE NECESSARY MAINTENANCE TO THE AREA BEAUTIFIED.

0318 - THE APPLICANT SHALL BE RESPONSIBLE FOR IMMEDIATE REMOVAL OF SUCH TRAFFIC HAZARDS AS MUD, DEBRIS, LOOSE STONE, AND TRASH AS MAY BE WASHED OR SPILLED ON THE TRAVELED ROADWAY AS A RESULT OF THE PROPOSED WORK.

0320 - ALL DEBRIS TO BE CLEARED FROM THE RIGHTS-OF-WAY WITHIN TEN (10) DAYS.

9999 - See Attached for Additional Special Provisions

## **APPENDIX K**

### **Data Verification Checklist**

## Contractor Checklist – Hot Spot #3005

### UST Permit #12719 - TERRY Project #2230.8I

| Item # | Item   | Yes | No | N/A |
|--------|--|-----|----|-----|
| 1      | Is Facility Name, Permit #, and address provided?  | X   |    |     |
| 2      | Is UST Owner/Operator name, address, & phone number provided?  | X   |    |     |
| 3      | Is name, address, & phone number of current property owner provided?   | X   |    |     |
| 4      | Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?             | X   |    |     |
| 5      | Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?     | X   |    |     |
| 6      | Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided? | X   |    |     |
| 7      | Has the facility history been summarized?  | X   |    |     |
| 8      | Has the regional geology and hydrogeology been described?  | X   |    |     |
| 9      | Are the receptor survey results provided as required?  |     |    | X   |
| 10     | Has current use of the site and adjacent land been described?  | X   |    |     |
| 11     | Has the site-specific geology and hydrogeology been described?   | X   |    |     |
| 12     | Has the primary soil type been described?  | X   |    |     |
| 13     | Have field screening results been described?   | X   |    |     |
| 14     | Has a description of the soil sample collection and preservation been detailed?  | X   |    |     |
| 15     | Has the field screening methodology and procedure been detailed?   | X   |    |     |
| 16     | Has the monitoring well installation and development dates been provided?  | X   |    |     |
| 17     | Has the method of well development been detailed?  | X   |    |     |
| 18     | Has justification been provided for the locations of the monitoring wells?   | X   |    |     |
| 19     | Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?   | X   |    |     |
| 20     | Has the groundwater sampling methodology been detailed?  | X   |    |     |
| 21     | Have the groundwater sampling dates and groundwater measurements been provided?  | X   |    |     |
| 22     | Has the purging methodology been detailed?   | X   |    |     |
| 23     | Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?                    | X   |    |     |
| 24     | If free-product is present, has the thickness been provided?   |     |    | X   |
| 25     | Does the report include a brief discussion of the assessment done and the results?   | X   |    |     |
| 26     | Does the report include a brief discussion of the aquifer evaluation and results?  | X   |    |     |
| 27     | Does the report include a brief discussion of the fate & transport models used?  |     |    | X   |
| 28     | Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)  |     |    | X   |
| 29     | Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)   |     |    | X   |
| 30     | Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)   |     |    | X   |
| 31     | Have recommendations for further action been provided and explained?   | X   |    |     |
| 32     | Has the soil analytical data for the site been provided in tabular format? (Table 1)   |     |    | X   |
| 33     | Has the potentiometric data for the site been provided in tabular format? (Table 2)  | X   |    |     |
| 34     | Has the current and historical laboratory data been provided in tabular format?  | X   |    |     |

| Item # | Item   | Yes        | No | N/A        |
|--------|--|------------|----|------------|
| 35     | Have the aquifer characteristics been provided and summarized on the appropriate form?   | X          |    |            |
| 36     | Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)  |            |    | X          |
| 37     | Has the topographic map been provided with all required elements? (Figure 1)   | X          |    |            |
| 38     | Has the site base map been provided with all required elements? (Figure 2)   | X          |    |            |
| 39     | Have the CoC site maps been provided? (Figure 3 & Figure 4)  | X<br>Fig 4 |    | X<br>Fig 3 |
| 40     | Has the site potentiometric map been provided? (Figure 5)  | X          |    |            |
| 41     | Have the geologic cross-sections been provided? (Figure 6)   |            |    | X          |
| 42     | Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)                             |            |    | X          |
| 43     | Has the site survey been provided and include all necessary elements? (Appendix A)   | X          |    |            |
| 44     | Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B) | X          |    |            |
| 45     | Is the laboratory performing the analyses properly certified?  | X          |    |            |
| 46     | Has the tax map been included with all necessary elements? (Appendix C)  |            |    | X          |
| 47     | Have the soil boring/field screening logs been provided? (Appendix D)  | X          |    |            |
| 48     | Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)   | X          |    |            |
| 49     | Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)   | X          |    |            |
| 50     | Have the disposal manifests been provided? (Appendix G)  | X          |    |            |
| 51     | Has a copy of the local zoning regulations been provided? (Appendix H)   |            |    | X          |
| 52     | Has all fate and transport modeling been provided? (Appendix I)  |            |    | X          |
| 53     | Have copies of all access agreements obtained by the contractor been provided? (Appendix J)  | X          |    |            |
| 54     | Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?       | X          |    |            |

Explanation for missing and incomplete information?

Not Applicable for the current directive.





Healthy People. Healthy Communities.

MS. CYNDI SUTTLES  
RL JORDAN OIL COMPANY OF NORTH CAROLINA INC  
PO BOX 2527  
SPARTANBURG SC 29304-2527

JUL 30 2019



Re: **Site-Specific Work Plan Request for Groundwater Sampling**  
Hot Spot #3005, 107 Hampton St, Spartanburg SC  
UST Permit # 12719  
Release reported April 4, 2003  
Tier II Report received August 13, 2018  
Spartanburg County

Dear Ms. Suttles:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by Terry Environmental Inc. The report documents petroleum chemicals in the groundwater above Risk-Based Screening Levels (RBSLs).


To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulations. A copy of the UST QAPP is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/>.

Groundwater samples should be collected from all monitoring wells, water supply wells, and surface waters within 1,000 ft radius of the site and analyzed for BTEX + Naphth + MtBE, 1,2-DCA, 8 oxygenates, PAH's, and EDB.

**The Site-Specific Work Plan (SSWP) and Cost Proposal must be submitted within 30 days from the date of this letter.** Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

On all correspondence regarding this site, please reference UST Permit # 12719. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-0592, fax me at (803) 898-0673, or e-mail me at edgarsk@dhec.sc.gov.

Sincerely,

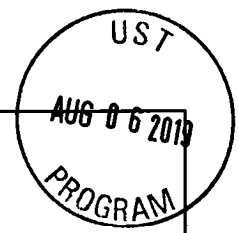
A handwritten signature in black ink that reads "Sedona Edgar". The signature is written in a cursive, flowing style.

Sedona Edgar, Hydrogeologist  
Assessment & Unregulated Petroleum Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

cc: Terry Environmental Services Inc., PO Box 25, Summerville SC 29484

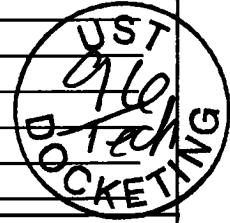


Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division



To: Sedona Edgar (SCDHEC Project Manager)
From: Kelly Cone (Contractor Project Manager)
Contractor: TERRY Environmental Services, Inc. UST Contractor Certification Number: UCC-0223

Facility Name: Hot Spot #3005 UST Permit #: 12719
Facility Address: 107 Hampton Street, Chesnee, South Carolina 29323
Responsible Party: RL Jordan Oil Co. of NC (Contact: Ms. Cyndi Suttles) Phone: 864-585-2784
RP Address: PO Box 2527, Spartanburg, SC 29304
Property Owner (if different): EJ Enterprises Inc.
Property Owner Address: PO Box 2527, Spartanburg, SC 29304
Current Use of Property: Commercial



Scope of Work (Please check all that apply)

- IGWA, Tier I, Tier II, Monitoring Well Installation, Groundwater Sampling, Other, GAC

Analyses (Please check all that apply)

Groundwater/Surface Water:

- BTEXNMDCA (8260B), Oxygenates (8260B), EDB (8011), PAH (8270D), Lead, 8 RCRA Metals, TPH, pH, BOD, Nitrate, Sulfate, Other, Methane, Ethanol, Dissolved Iron

Drinking Water Supply Wells:

- BTEXNMDCA (524.2), Oxygenates & Ethanol (8260B), Mercury (200.8 245.1 or 245.2), RCRA Metals (200.8), EDB (504.1)

Soil:

- BTEXNM, PAH, Lead, RCRA Metals, Oil & Grease (9071), TPH-DRO (3550B/8015B), TPH-GRO (5030B/8015B), Grain Size, TOC

Air:

- BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

Soil, Water Supply Wells, Air, Field Blank, Monitoring Wells, Surface Water, Duplicate, Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: -- Estimated Footage: -- feet per point
# of deep points proposed: -- Estimated Footage: -- feet per point
Field Screening Methodology: --

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: -- Estimated Footage: -- feet per point
# of deep wells: -- Estimated Footage: -- feet per point
# of recovery wells: -- Estimated Footage: -- feet per point

Comments, if warranted:

UST Permit #: 12719 Facility Name: Hot Spot #3005

**Implementation Schedule** (Number of calendar days from approval)

Field Work Start-Up: 14-30 days Field Work Completion: 30-45 days  
Report Submittal: 60 days # of Copies Provided to Property Owners: RP only

**Aquifer Characterization**

Pump Test:  Slug Test:  (Check one and provide explanation below for choice)

**Investigation Derived Waste Disposal**

Soil: - Tons Purge Water: 110 Gallons  
Drilling Fluids: -- Gallons Free-Phase Product: -- Gallons

**Additional Details For This Scope of Work**

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

Conduct a comprehensive groundwater sampling event: shallow monitoring wells MW-1R, MW-2R, MW-3R, MW-4 through MW-7, MW-8R, MW-9, MW-10, MW-10R, MW-11, MW-11R, MW-12 through MW-25; deep monitoring wells MW-1D, DW-2, and DW-3; recovery wells RW-1 through RW-3; and the surface water feature (SW-1) will be sampled. The existing monitoring wells were last sampled May 2018 and will only require purging if the water table is not bracket by the screened interval.

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**

Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: \_\_\_\_\_  
SCDHEC Certification Number: \_\_\_\_\_  
Name of Laboratory Director: \_\_\_\_\_

       Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: \_\_\_\_\_  
SCLLR Certification Number: \_\_\_\_\_

       Other variations from ACQAP. Please describe below.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attachments**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

|                                    |   |
|------------------------------------|---|
| North Arrow                        | Proposed monitoring well locations                                      |
| Location of property lines         | Legend with facility name and address, UST permit number, and bar scale |
| Location of buildings              | Streets or highways (indicate names and numbers)                        |
| Previous soil sampling locations   | Location of all present and former ASTs and USTs                        |
| Previous monitoring well locations | Location of all potential receptors                                     |
| Proposed soil boring locations     |   |
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



**ASSESSMENT COMPONENT INVOICE**

**SOUTH CAROLINA**

Department of Health and Environmental Control  
 Underground Storage Tank Management Division  
 State Underground Petroleum Environmental Response Bank Account

Healthy People. Healthy Communities.

June 15, 2017

**Facility Name:** Hot Spot #3005

**UST Permit #:** 12719

**Cost Agreement #:** Proposed

| ITEM   | QUANTITY | UNIT              | UNIT PRICE | TOTAL      |
|--|----------|-------------------|------------|------------|
| <b>1. Plan Preparation</b>   |          |                   |            |            |
| A1. Site-specific Work Plan  | 1        | each              | \$150.00   | \$150.00   |
| B1. Tax Map  |          | each              | \$70.00    | \$0.00     |
| C1. Tier II or Comp. Plan /QAPP Appendix B   |          | each              | \$250.00   | \$0.00     |
| <b>2. A1. Receptor Survey *</b>  |          |                   |            |            |
|  |          | each              | \$551.00   | \$0.00     |
| <b>3. Survey (500 ft x 500 ft)</b>   |          |                   |            |            |
| A1. Comprehensive Survey   |          | each              | \$1,040.00 | \$0.00     |
| <b>B. Subsurface Geophysical Survey</b>  |          |                   |            |            |
| 1B. < 10 meters below grade  |          | each              | \$1,300.00 | \$0.00     |
| 2B. > 10 meters below grade  |          | each              | \$2,310.00 | \$0.00     |
| C1. Geophysical UST or Drum Survey   |          | each              | \$910.00   | \$0.00     |
| <b>4. Mob/Demob</b>  |          |                   |            |            |
| A1. Equipment  |          | each              | \$1,020.00 | \$0.00     |
| B1. Personnel (10x2, 17)   | 3        | each              | \$423.00   | \$1,269.00 |
| C1. Adverse Terrain Vehicle  |          | each              | \$500.00   | \$0.00     |
| <b>5. A1. Soil Borings (hand auger)*</b>   |          |                   |            |            |
|  |          | foot              | \$5.00     | \$0.00     |
| <b>6. Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)*</b> |          |                   |            |            |
| AA. Standard   |          | per foot          | \$15.00    | \$0.00     |
| C1. Fractured Rock   |          | per foot          | \$20.20    | \$0.00     |
| <b>7. A1. Soil Leachability Model</b>  |          |                   |            |            |
|  |          | each              | \$60.00    | \$0.00     |
| <b>8. Abandonment (per foot)*</b>  |          |                   |            |            |
| A1. 2" diameter or less  |          | per foot          | \$3.10     | \$0.00     |
| B1. Greater than 2" to 6" diameter   |          | per foot          | \$4.50     | \$0.00     |
| C1. Dug/Bored well (up to 6 feet diameter)   |          | per foot          | \$15.00    | \$0.00     |
| <b>9. Well Installation (per foot)*</b>  |          |                   |            |            |
| A1. Water Table (hand augered)   |          | per foot          | \$10.60    | \$0.00     |
| B1. Water Table (drill rig)  |          | per foot          | \$38.00    | \$0.00     |
| CC. Telescoping  |          | per foot          | \$50.00    | \$0.00     |
| DD. Rock Drilling  |          | per foot          | \$58.00    | \$0.00     |
| E1. 2" Rock Coring   |          | per foot          | \$30.90    | \$0.00     |
| G1. Rock Multi-sampling ports/screens  |          | per foot          | \$33.40    | \$0.00     |
| HH. Recovery Well (4" diameter)  |          | per foot          | \$45.00    | \$0.00     |
| II. Pushed Pre-packed screen (1.25" dia)   |          | per foot          | \$15.00    | \$0.00     |
| J1. Rotasonic (2" diameter)  |          | per foot          | \$44.00    | \$0.00     |
| K. Re-develop Existing Well  |          | per foot          | \$11.00    | \$0.00     |
| <b>10. Groundwater Sample Collection / Gauge Depth to Water or Product *</b>   |          |                   |            |            |
| A1. Groundwater Purge  | 3        | per well/receptor | \$60.00    | \$180.00   |
| B1. Air or Vapors  |          | per receptor      | \$12.00    | \$0.00     |
| C1. Water Supply   |          | per well/receptor | \$22.00    | \$0.00     |
| D1. Groundwater NP (30), SW (1), or Dup (2)  | 33       | per well/receptor | \$28.00    | \$924.00   |
| E1. Gauge Well only  |          | per well          | \$7.00     | \$0.00     |
| F1. Sample Below Product   |          | per well          | \$12.00    | \$0.00     |
| G1. Passive Diffusion Bag  |          | each              | \$26.00    | \$0.00     |
| H1. Field Blank  | 2        | each              | \$24.60    | \$49.20    |
| I. Groundwater (low flow purge)  |          | per well/receptor | \$91.00    | \$0.00     |

|   |     |            |          |  |            |
|---|-----|------------|----------|--|------------|
| <b>11. Laboratory Analyses-Groundwater</b>        |     |            |          |  |            |
| A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)              | 40  | per sample | \$122.00 |  | \$4,880.00 |
| AA1. Lead, Filtered                               |     | per sample | \$13.80  |  | \$0.00     |
| B2. Rush EPA Method 8260B (All of item A.)        |     | per sample | \$153.60 |  | \$0.00     |
| C2. Trimethal, Butyl, and Isopropyl Benzenes      |     | per sample | \$36.40  |  | \$0.00     |
| D1. PAH's   | 36  | per sample | \$60.60  |  | \$2,181.60 |
| E1. Lead  |     | per sample | \$16.00  |  | \$0.00     |
| F1. EDB by EPA 8011                               | 38  | per sample | \$45.20  |  | \$1,717.60 |
| FF1. EDB by EPA Method 8011 Rush                  |     | per sample | \$68.20  |  | \$0.00     |
| G1. 8 RCRA Metals                                 |     | per sample | \$63.40  |  | \$0.00     |
| H1. TPH (9070)                                    |     | per sample | \$41.00  |  | \$0.00     |
| II. pH  |     | per sample | \$5.20   |  | \$0.00     |
| J1. BOD   |     | per sample | \$20.00  |  | \$0.00     |
| PP. Ethanol                                       |     | per sample | \$14.80  |  | \$0.00     |
| <b>11. Analyses-Drinking Water</b>                |     |            |          |  |            |
| L. BTEXNM+1,2 DCA (524.2)                         |     | per sample | \$124.05 |  | \$0.00     |
| M. 7-OXYGENATES & ETHANOL (8260B)                 |     | per sample | \$91.75  |  | \$0.00     |
| N. EDB (504.1)                                    |     | per sample | \$79.50  |  | \$0.00     |
| O. RCRA METALS (200.8)                            |     | per sample | \$100.00 |  | \$0.00     |
| <b>11. Analyses-Soil</b>                          |     |            |          |  |            |
| Q1. BTEX + Naphth.                                |     | per sample | \$64.00  |  | \$0.00     |
| R1. PAH's   |     | per sample | \$64.04  |  | \$0.00     |
| S1. 8 RCRA Metals                                 |     | per sample | \$56.40  |  | \$0.00     |
| U1. TPH-DRO (3550C/8015C)                         |     | per sample | \$40.00  |  | \$0.00     |
| V1. TPH- GRO (5030B/8015C)                        |     | per sample | \$35.96  |  | \$0.00     |
| W1. Grain size/hydrometer                         |     | per sample | \$104.00 |  | \$0.00     |
| X1. Total Organic Carbon                          |     | per sample | \$30.60  |  | \$0.00     |
| <b>11. Analyses-Air</b>                           |     |            |          |  |            |
| Y1. BTEX + Naphthalene                            |     | per sample | \$216.00 |  | \$0.00     |
| <b>11. Analyses-Free Phase Product</b>            |     |            |          |  |            |
| Z1. Hydrocarbon Fuel Identification               |     | per sample | \$357.00 |  | \$0.00     |
| <b>12. Aquifer Characterization</b>               |     |            |          |  |            |
| A1. Pumping Test*                                 |     | per hour   | \$23.00  |  | \$0.00     |
| B1. Slug Test*                                    |     | per test   | \$191.00 |  | \$0.00     |
| C1. Fractured Rock                                |     | per test   | \$100.00 |  | \$0.00     |
| <b>13. A1. Free Product Recovery Rate Test*</b>   |     |            |          |  |            |
|   |     | each       | \$38.00  |  | \$0.00     |
| <b>14. Fate/Transport Modeling</b>                |     |            |          |  |            |
| A1. Mathematical Model                            |     | each       | \$100.00 |  | \$0.00     |
| B1. Computer Model                                |     | each       | \$100.00 |  | \$0.00     |
| <b>15. Risk Evaluation</b>                        |     |            |          |  |            |
| A. Tier I Risk Evaluation                         |     | each       | \$300.00 |  | \$0.00     |
| B1. Tier II Risk Evaluation                       |     | each       | \$100.00 |  | \$0.00     |
| <b>16. A1. Subsequent Survey*</b>                 |     |            |          |  |            |
|   |     | each       | \$260.00 |  | \$0.00     |
| <b>17. Disposal (gallons or tons)*</b>            |     |            |          |  |            |
| AA. Wastewater                                    | 110 | gallon     | \$0.56   |  | \$61.60    |
| BB. Free Product                                  |     | gallon     | \$0.50   |  | \$0.00     |
| C1. Soil Treatment/Disposal                       |     | ton        | \$60.00  |  | \$0.00     |
| D1. Drilling fluids                               |     | gallon     | \$0.42   |  | \$0.00     |
| <b>18. Miscellaneous (attach receipts)</b>        |     |            |          |  |            |
|   |     | each       | \$0.00   |  | \$0.00     |
|   |     | each       | \$0.00   |  | \$0.00     |
|   |     | each       | \$0.00   |  | \$0.00     |
| <b>20. Tier I Assessment (Use DHEC 3665 form)</b> |     |            |          |  |            |
|   |     | standard   |          |  | \$0.00     |
| <b>21. IGWA (Use DHEC 3666 form)</b>              |     |            |          |  |            |
|   |     | standard   |          |  | \$0.00     |
| <b>22. Corrective Action (Use DHEC 3667 form)</b> |     |            |          |  |            |
|   |     | PFP Bid    |          |  | \$0.00     |

|  |     |           |             |  |             |
|--|-----|-----------|-------------|--|-------------|
| <b>23. Aggressive Fluid &amp; Vapor Recovery (AFVR)</b>                                |     |           |             |  |             |
| A1. 8-hour Event*  |     | each      | \$1,375.00  |  | \$0.00      |
| AA. 24-hour Event*   |     | each      | \$3,825.00  |  | \$0.00      |
| A3. 48-hour Event*   |     | each      | \$6,265.00  |  | \$0.00      |
| A4. 96-hour Event*   |     | each      | \$12,567.50 |  | \$0.00      |
| C1. Off-gas Treatment 8 hour   |     | per event | \$122.50    |  | \$0.00      |
| C2. Off-gas Treatment 24 hour  |     | per event | \$241.50    |  | \$0.00      |
| C3. Off-gas Treatment 48 hour  |     | per event | \$327.00    |  | \$0.00      |
| C4. Off-gas Treatment 96 hour  |     | per event | \$780.00    |  | \$0.00      |
| D. Site Reconnaissance   |     | each      | \$203.25    |  | \$0.00      |
| E1. Additional Hook-ups  |     | each      | \$25.75     |  | \$0.00      |
| F1. Effluent Disposal  |     | gallon    | \$0.44      |  | \$0.00      |
| G. AFVR Mobilization/Demobilization  |     | each      | \$391.50    |  | \$0.00      |
| <b>24. Granulated Activated Carbon (GAC) filter system installation &amp; service:</b> |     |           |             |  |             |
| A1. New GAC System Installation*   |     | each      | \$1,900.00  |  | \$0.00      |
| BB. Refurbished GAC Sys. Install*  |     | each      | \$900.00    |  | \$0.00      |
| C1. Filter replacement/removal*  |     | each      | \$350.00    |  | \$0.00      |
| DD. GAC System removal, cleaning, & refurbishment*                                     |     | each      | \$275.00    |  | \$0.00      |
| E1. GAC System housing*  |     | each      | \$250.00    |  | \$0.00      |
| F. In-line particulate filter  |     | each      | \$150.00    |  | \$0.00      |
| G1. Additional piping & fittings   |     | foot      | \$1.50      |  | \$0.00      |
| <b>25. Well Repair</b>   |     |           |             |  |             |
| A1. Additional Copies of the Report Delivered  |     | each      | \$50.00     |  | \$0.00      |
| B1. Repair 2x2 MW pad*   |     | each      | \$50.00     |  | \$0.00      |
| C1. Repair 4x4 MW pad*   |     | each      | \$88.00     |  | \$0.00      |
| D1. Repair well vault*   |     | each      | \$118.00    |  | \$0.00      |
| F1. Replace well cover bolts   |     | each      | \$2.60      |  | \$0.00      |
| G. Replace locking well cap & lock   |     | each      | \$15.00     |  | \$0.00      |
| H1. Replace/Repair stick-up*   |     | each      | \$134.00    |  | \$0.00      |
| II. Convert Flush-mount to Stick-up*   |     | each      | \$150.00    |  | \$0.00      |
| J1. Convert Stick-up to Flush-mount*   |     | each      | \$130.00    |  | \$0.00      |
| K1. Replace missing/illegible well ID plate  |     | each      | \$12.00     |  | \$0.00      |
| <b>Report Prep &amp; Project Coordination</b>  | 12% | percent   | \$11,413.00 |  | \$1,369.56  |
| <b>TOTAL</b>   |     |           |             |  | \$12,782.56 |

\*The appropriate mobilization cost can be added to complete these tasks, as necessary.

DHEC

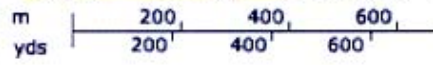
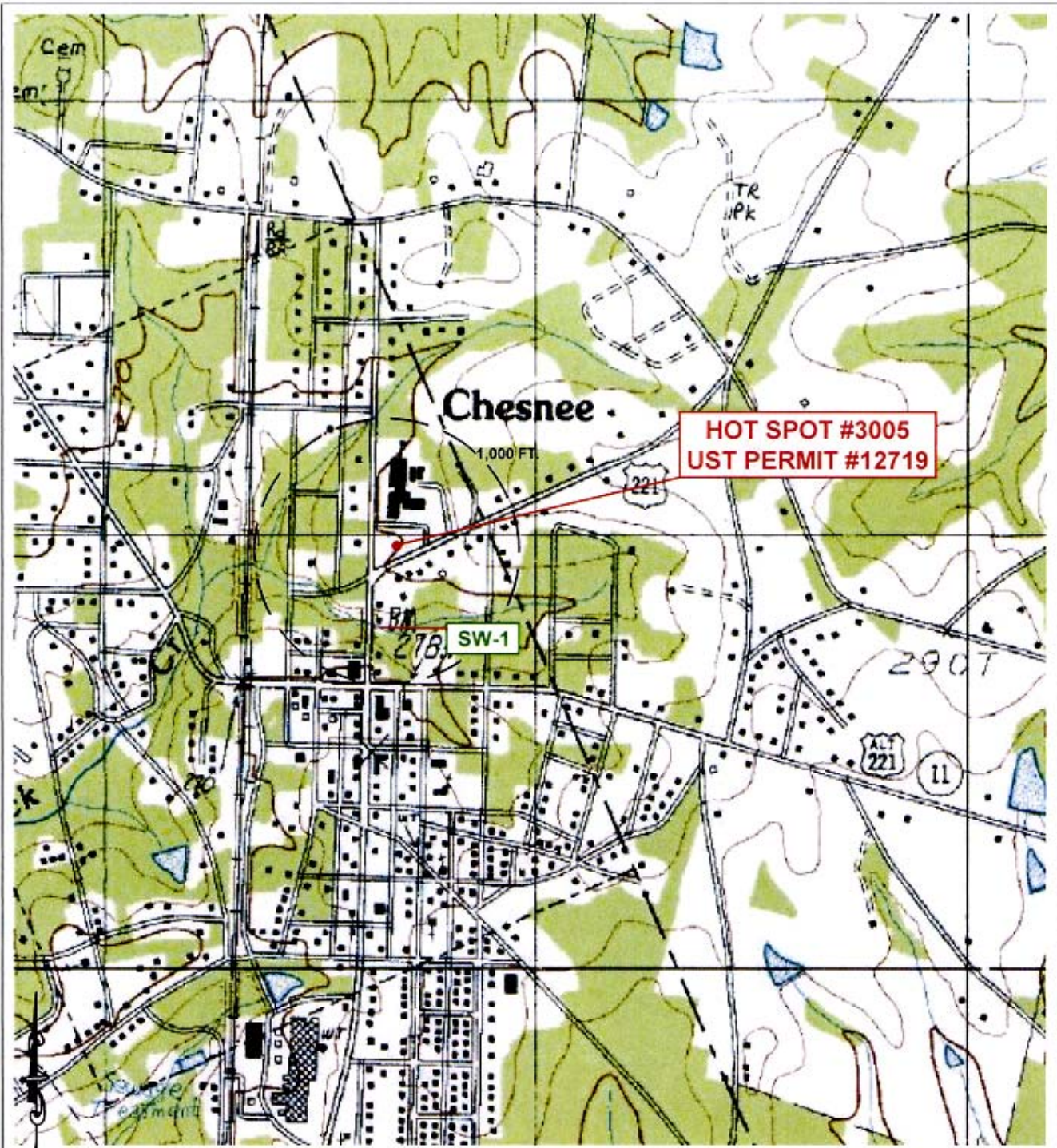

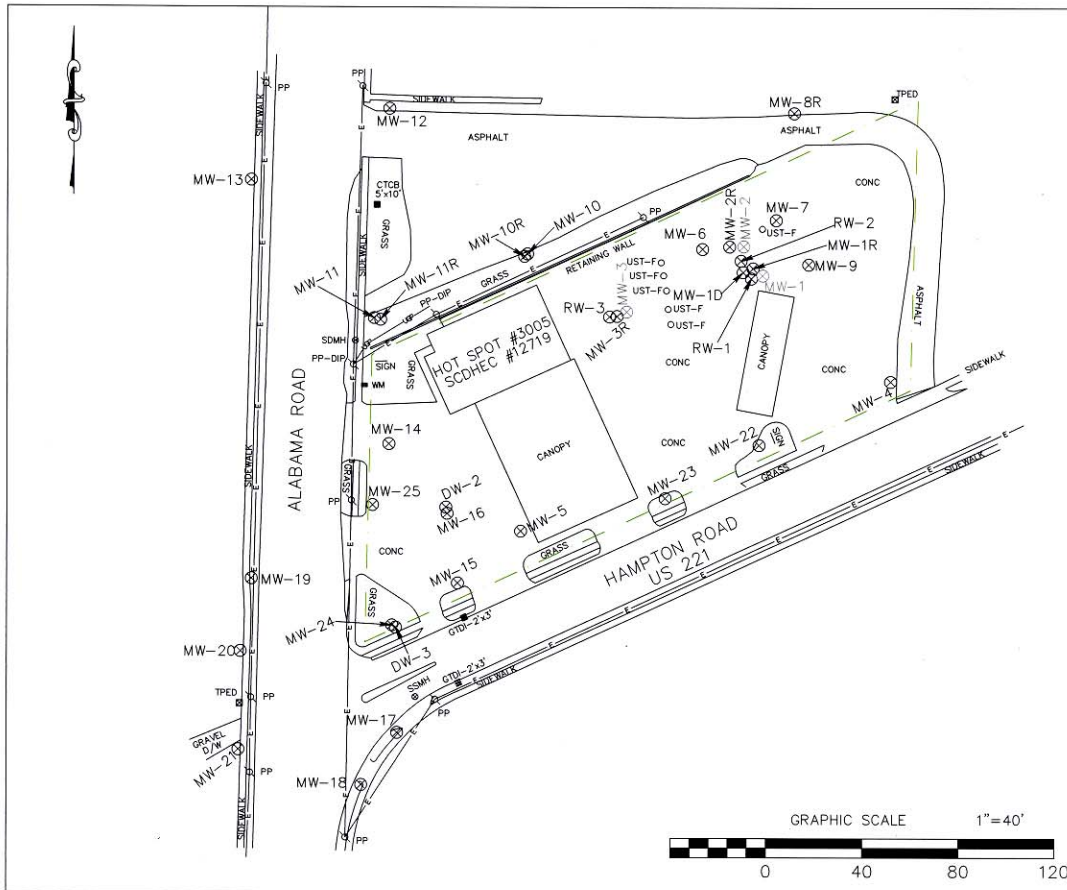


Image courtesy of the U.S. Geological Survey

|   |   |                              |                                     |     |
|---|---|------------------------------|-------------------------------------|-----|
|  <p><b>TERRY</b><br/>ENVIRONMENTAL SERVICES<br/>CLIENTS FIRST ALWAYS</p> | <b>FIGURE 1</b><br><b>TOPOGRAPHIC MAP</b>                       |                              |                                     |     |
|   | HOT SPOT #3005<br>107 HAMPTON STREET<br>CHESNEE, SOUTH CAROLINA |                              |                                     |     |
| providing our clients with the best services available<br>actually understanding our clients objectives.<br>and making their objectives our own!            | SIZE<br>B   | TERRY Project No.<br>2230.8K | DWG NO.<br>Figure 1 Topographic Map | REV |
| PO Box 25<br>Summerville, South Carolina 29484<br>(800) 325-0905 (843) 873-8200 fax (843) 873-8765  | SCALE: As Shown   |                              | DATE: August 2019                   |     |





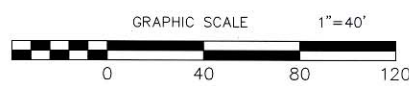
- LEGEND & ABBREVIATIONS:**
- ⊗ MW = MONITORING WELL
  - ⊗ ABANDONED MONITORING WELL
  - ⊗ TPED = TELEPHONE PEDESTAL
  - ⊗ SDMH = STORM DRAIN MAN HOLE
  - ⊗ SSMH = SANITARY SEWER MAN HOLE
  - WM = WATER METER
  - PP = POWER POLE
  - LP = LIGHT POLE
  - GM = GAS METER
  - GV = GAS VALVE
  - USTF = UNDERGROUND STORAGE TANK FILL
  - GTCB = GRATE TOP CATCH BASIN
  - SIGN = SIGN
  - KD = KEROSENE DISPENSER
  - E — = OVERHEAD POWER LINE
  - UST-F — = UNDERGROUND POWER LINE
  - UST-FO — = UNDERGROUND POWER LINE
  - OUST-F — = UNDERGROUND POWER LINE
  - — — = APPROXIMATE PROPERTY LINE
- ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (ie. 12719-MW 1)



**FIGURE 2**  
**SITE BASE MAP**

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

|                 |                  |
|-----------------|------------------|
| TERRY PROJECT # | SCDHEC SITE ID # |
| 2230.8K         | 12719            |
| SCALE           | DATE             |
| 1" = 40'        | August 2019      |

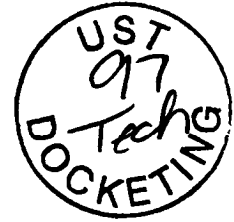




MS. CYNDI SUTTLES  
RL JORDAN OIL COMPANY OF NORTH CAROLINA INC  
PO BOX 2527  
SPARTANBURG SC 29304-2527

AUG 23 2019

Re: **Notice to Proceed with Groundwater Sampling**  
Hot Spot #3005, 107 Hampton St., Spartanburg, SC  
UST Permit # 12719, CA #59946  
Release reported August 4, 2003  
SSWP Received August 6, 2019  
Newberry County



Dear Ms. Suttles:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site-Specific Work Plan (SSWP) submitted by Terry Environmental Services, Inc. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), Terry Environmental Services' approved SSWP and Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/>

The groundwater sampling event should begin immediately upon receipt of this letter. Cost agreement #59946 has been approved for the amount shown on the enclosed cost agreement form.

**The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.**

**The Monitoring report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the Division within sixty (60) days of the date of this correspondence.** The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

Terry Environmental Solutions Inc. can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Division for the cost to be paid. The Division reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Division reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by a DHEC-certified site rehabilitation contractor as required by R.61-98.

The Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the Chemical of Concern (CoC) concentrations based on laboratory analysis is below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on-site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference UST Permit #12719. If there are any questions concerning this project, please contact me at (803) 898-0592 or by email at [edgarsk@dhec.sc.gov](mailto:edgarsk@dhec.sc.gov).

Sincerely,



Sedona K. Edgar, Hydrogeologist  
Assessment & Unregulated Petroleum Section  
UST Management Division  
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Terry Environmental Services Inc, PO Box 25, Summerville SC 29484 (w/enc)  
Technical file (w/enc)

**Approved Cost Agreement**

**59946**

Facility: 12719 HOT SPOT 3005

EDGARSK

PO Number:

| <u>Task / Description</u>         | <u>Categories</u> | <u>Item Description</u>           | <u>Qty / Pct</u> | <u>Unit Price</u>   | <u>Amount</u>    |
|-----------------------------------|-------------------|-----------------------------------|------------------|---------------------|------------------|
| 01 PLAN                           |                   | A1 SITE SPECIFIC WORK PLAN        | 1.0000           | \$150.000           | 150.00           |
| 04 MOB/DEMOB                      |                   | B1 PERSONNEL                      | 3.0000           | \$423.000           | 1,269.00         |
| 10 SAMPLE COLLECTION              |                   | A1 GROUNDWATER (PURGE)            | 3.0000           | \$60.000            | 180.00           |
|                                   |                   | D1 GROUNDWATER NO PURGE/DUPLICATE | 33.0000          | \$28.000            | 924.00           |
|                                   |                   | H1 FIELD BLANK                    | 2.0000           | \$24.600            | 49.20            |
| 11 ANALYSES                       | GW GROUNDWATER    | A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B | 40.0000          | \$122.000           | 4,880.00         |
|                                   |                   | D1 PAH'S                          | 36.0000          | \$60.600            | 2,181.60         |
|                                   |                   | F1 EDB BY 8011                    | 38.0000          | \$45.200            | 1,717.60         |
| 17 DISPOSAL                       |                   | AA WASTEWATER                     | 110.0000         | \$0.560             | 61.60            |
| 19 RPT/PROJECT MNGT & COORDINATIO |                   | PRT REPORT PREPARATION            | 0.1200           | \$11,413.000        | 1,369.56         |
|                                   |                   |                                   |                  | <b>Total Amount</b> | <b>12,782.56</b> |

# Document Receipt Information

Hard Copy



CD

Email

Date Received 10-7-19

Permit Number 12719

Project Manager Sedona Edgar

Name of Contractor TES

UST Certification Number \_\_\_\_\_

Docket Number \_\_\_\_\_ 984edh

Scanned \_\_\_\_\_

CWM report

**GROUNDWATER MONITORING REPORT  
HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719  
CA #59946**

Prepared For:

**SCDHEC UNDERGROUND STORAGE TANK PROGRAM  
2600 BULL ST.  
COLUMBIA, SC 29201**

Submitted By:



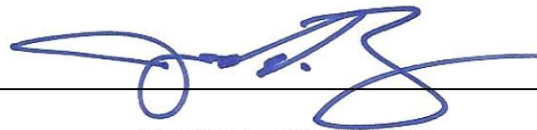
P.O. BOX 25  
SUMMERVILLE, SOUTH CAROLINA 29484  
(843) 873-8200  
Fax (843) 225-3472  
[www.terryenvironmental.com](http://www.terryenvironmental.com)

UST CONTRACTOR #UCC-0223  
TERRY PROJECT #2230.8K



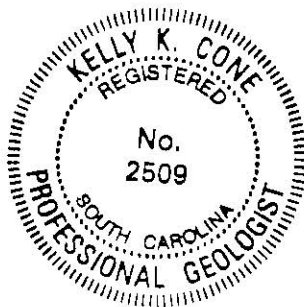
---

**KELLY K. CONE, PG  
Vice President**



---

**JASON A. TERRY, PG  
President**



**OCTOBER 2019**

**TABLE OF CONTENTS**

| SECTION | DESCRIPTION   | PAGE |
|---------|---|------|
| A.      | INTRODUCTIO   | 1    |
|         | N   |      |
| 1.      | UST Facility and Owner/Operator Information               | 1    |
| 2.      | Property Owner Information                                | 1    |
| 3.      | Contractor Information                                    | 1    |
| 4.      | Well Driller Information                                  | 1    |
| 5.      | Laboratory Information                                    | 1    |
| 6.      | Site History  | 1    |
| 7.      | Regional Geology and Hydrogeology                         | 2    |
| B.      | RECEPTOR SURVEY & SITE DATA                               | 3    |
| 1.      | Receptor Survey Results                                   | 3    |
| 2.      | Current Site and Adjacent Land Use                        | 3    |
| 3.      | Site-Specific Geology and Hydrogeology                    | 3    |
| C.      | SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY | 4    |
| D.      | MONITORING WELL INFORMATION                               | 4    |
| E.      | GROUNDWATER DATA  | 5    |
| 1.      | Groundwater Sampling Methodology                          | 5    |
|         | E-1 Groundwater Measurements (No Purge Sampling)          | 6    |
| 2.      | Purging Methodology                                       | 7    |
|         | E-2 Groundwater Measurements (Purge Sampling)             | 8    |
| 3.      | Free Product Measurements                                 | 10   |
| F.      | AFVR INFORMATION  | 11   |
| G.      | GRANULATED ACTIVATED CARBON INSTALLATION                  | 11   |
| H.      | RESULTS & DISCUSSION                                      | 12   |
| 1.      | Assessment Results  | 12   |
| 2.      | Aquifer Evaluation Results                                | 12   |
| 3.      | Fate & Transport Results                                  | 12   |
| 4.      | Tier 1 Risk Evaluation                                    | 12   |
| 5.      | Tier 2 Risk Evaluation                                    | 12   |
| I.      | TABLES  | 13   |
| 1.      | Soil Analytical Data                                      | 13   |
| 2.      | Potentiometric Data                                       | 13   |
|         | Table 2 Groundwater Potentiometric Data                   | 13   |
| 3.      | Laboratory Data   | 13   |
|         | Table 3 Groundwater Laboratory Data                       | 13   |
| 4.      | Aquifer Characteristics                                   | 13   |
| 5.      | Site Conceptual Model                                     | 13   |
| J.      | FIGURES   | 14   |
| 1.      | Topographic Map   | 14   |
|         | Figure 1 Topographic Map                                  | 14   |
| 2.      | Site Base Map   | 14   |
|         | Figure 2 Site Base Map                                    | 14   |
| 3.      | CoC Site Maps   | 14   |
|         | Figure 3 Soil CoC Map                                     | 14   |
|         | Figure 4A Groundwater CoC Map                             | 14   |
|         | Figure 4B Groundwater CoC Map (Oxygenates)                | 14   |

**TABLE OF CONTENTS (cont.)**

| SECTION | DESCRIPTION  | PAGE |
|---------|--|------|
|         | Figure 4C Groundwater CoC Map (PAHs)               | 14   |
| 4.      | Site Potentiometric Maps                           | 14   |
|         | Figure 5 Site Potentiometric Map                   | 14   |
| 5.      | Geologic Cross-Sections                            | 14   |
| 6.      | Predicted Migration and Attenuation of CoCs        | 14   |
| K.      | Appendices   | 15   |
| 1.      | Appendix A: Site Survey                            | 15   |
| 2.      | Appendix B: Sampling Logs and Laboratory Data      | 15   |
| 3.      | Appendix C: Tax Map                                | 15   |
| 4.      | Appendix D: Soil Boring/Field Screening Logs       | 15   |
| 5.      | Appendix E: Well Completion Logs/SCDHEC 1903 Forms | 15   |
| 6.      | Appendix F: Aquifer Evaluation Forms               | 15   |
| 7.      | Appendix G: Disposal Manifest                      | 15   |
| 8.      | Appendix H: Local Zoning Regulations               | 15   |
| 9.      | Appendix I: Fate and Transport Modeling Data       | 15   |
| 10.     | Appendix J: Access Agreements                      | 15   |
| 11.     | Appendix K: Data Verification Checklist            | 15   |



**A. INTRODUCTION**
**1. UST Facility and Owner/Operator Information**

Facility Name (Permit #): Hot Spot #3005 (12719)  
 Facility Address: 107 Hampton Street, Chesnee, South Carolina 29323  
 Facility Telephone: 864-461-4147  
  
 Owner/ Operator Name: RL Jordan Oil Co. of NC (Contact: Ms. Cyndi Suttles)  
 Owner/ Operator Address: PO Box 2527, Spartanburg, SC 29304  
 Owner/ Operator Telephone: 864-585-2784

**2. Property Owner Information**

Name: EJ Enterprises Inc.  
 Address: PO Box 2527, Spartanburg, SC 29304  
 Telephone: 864-585-2784

**3. Contractor Information**

Name: Terry Environmental Services, Inc.  
 Address: P.O. Box 25, Summerville, South Carolina 29484  
 Telephone: 843-873-8200  
 Certification: UCC-0223

**4. Well Driller Information**

Not Applicable

**5. Laboratory Information**

Name: Shealy Environmental Labs  
 Address: 106 Vantage Point Drive, West Columbia, SC 29172  
 Telephone: 803-791-9700  
 Certification: 32010

**6. Site History**

Date Release Reported to SCDHEC: August 4, 2003  
 Estimated Quantity of Product Released: Unknown  
 Cause of Release: Unknown  
 Current use of Facility: Gas Station and Convenience Store (Hot Spot)

| UST #          | Product           | Date Installed | Currently In Use<br>(Yes or No) | If not in use, Date<br>Removed |
|----------------|-------------------|----------------|---------------------------------|--------------------------------|
| 1 (12,000 gal) | Unleaded Gasoline | 8/6/1990       | Yes                             | -                              |
| 2 (8,000 gal)  | Plus Gasoline     | 8/6/1990       | Yes                             | -                              |
| 3 (8,000 gal)  | Premium Gasoline  | 8/6/1990       | Yes                             | -                              |
| 4 (8,000 gal)  | Diesel            | 8/6/1990       | Yes                             | -                              |
| 5 (8,000 gal)  | Kerosene          | 8/6/1990       | Yes                             | -                              |
| 6 (12,000 gal) | Diesel            | 10/3/1991      | Yes                             | -                              |

Other Releases at this site?      Yes XXXX      No \_\_\_\_\_  
If yes, Date Release Reported to SCDHEC      November 3, 1993  
**Status of Release:**      Feb. 2002 Brook & Medlock selected as CA contractor.  
No Further Action Date:      N/A

**7. Regional Geology and Hydrogeology**

The Hot Spot #3005 site is located in Chesnee which lies in the Western Piedmont Province of South Carolina. The western piedmont is comprised of the Inner Piedmont block, the Smith River allochthon, and the Sauratwon Mountain window. The Inner Piedmont block encompasses the Inner Piedmont belt and the Chauga belt, and consists of a composite stack of thrust sheets containing a variety of gneisses, schists, amphibolites, sparse ultramafic bodies, and intrusive granitoids. (The Geology of the Carolinas, Horton & Zullo, 1991)

The Hot Spot #3005 site is located in the Inner Piedmont Belt which is characterized by granitic, biotitic, and hornblendic rocks. Generally, wells drilled in the Inner Piedmont Belt of Spartanburg County yield 1 to 250 gallons per minute (gpm). The highest average yields (35 gpm) were obtained from wells drilled in biotite gneiss and migmatite with the lowest average yields from wells drilled in quartz monzonite. The average yield of all wells inventoried was 20 gpm. The ground waters in Spartanburg County are of good to excellent quality for most domestic, municipal, and industrial uses. (USGS/SCWRC Report 3: Water Resources of Spartanburg County, South Carolina, 1970)

## **B. RECEPTOR SURVEY & SITE DATA**

### **1. Receptor Survey Results**

A receptor survey was not conducted during this scope of work.

### **2. Current Site and Adjacent Land Use**

Description of current site use (commercial, residential, rural, etc.):

Commercial; the site is operating as Hot Spot #3005, a gas station and convenience store.

Description of adjacent land use (commercial, residential, rural, etc):

Commercial and residential.

UST sites within a 1,000-foot radius:

10122 Free Time Convenience Store

The site is located at 107 Hampton Street, Chesnee, South Carolina. The site is bordered to the north by a school, to the east by a vacant field, and to the south and west by commercial and residential properties. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map originating from a comprehensive survey completed by Jay S. Joshi (SC Registered Land Surveyor #14811) of Construction Support Services on June 6, 2018 is provided in Section J as Figure 2.

### **3. Site-Specific Geology and Hydrogeology**

The site-specific stratigraphy generally consists of silt underlain by sandy silt in the deep wells. The Site Potentiometric Map (Figure 5, Section J) from the comprehensive groundwater sampling event indicates that shallow groundwater flow is generally to the west-southwest.

**C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY**

Not Applicable. No soil or groundwater borings were installed during this scope of work.

**D. MONITORING WELL INFORMATION**

Not Applicable. No monitoring wells were installed during this scope of work.

## **E. GROUNDWATER DATA**

### **1. Groundwater Sampling Methodology**

TERRY conducted a comprehensive groundwater sampling event on September 10 and September 11, 2019. Just prior to the sampling event, all monitoring wells were gauged with an oil/water interface probe to determine depth to groundwater measurements and the presence or absence of free-phase petroleum. Water level was recorded to the nearest 0.01 foot and total well depth was recorded to the nearest 0.1 foot. Surface water sample (SW-1) was also collected on September 11, 2019 from the tributary located approximately 575 feet south of the subject site.

Sampling was conducted from the least contaminated wells to the most contaminated wells based on the previous assessment data. A clean purge pump with new disposable tubing was utilized for purging the wells with larger casing volumes and/or adequate recharge rates. Groundwater samples were collected from each monitoring well with a new disposable bailer. Bailers with new colorless nylon rope were slowly lowered into the top of the water column, allowed to fill, and slowly removed to minimize turbidity and disturbance of the volatile organic compounds (VOCs). The surface water sample was collected with a new disposable bailer.

Trip blanks, field blanks, and field duplicates were prepared or collected in accordance with the SCDHEC UST QAPP, Revision 3.1. One trip blank was shipped with each cooler and analyzed for VOCs. One field blank was collected for each sampling day and analyzed for VOCs and 1,2-Dibromoethane (EDB). One field duplicate was collected for each batch of twenty samples and analyzed for VOCs, Polycyclic Aromatic Hydrocarbons (PAHs), and EDB.

The analytical data indicated an estimated concentration of tert-Butyl Alcohol (TBA) in one of the trip blanks (15J ug/L). The potential contamination introduced during sample collection, storage, or transport does not appear to have had an impact on the integrity of the samples as the results for thirty-three (33) of the forty (40) samples were non-detect for TBA.

Samples were immediately packed in a cooler of ice and proper temperatures were maintained in accordance with the SCDHEC UST QAPP, Revision 3.1 and the site-specific Addendum. At the completion of the sampling event, the samples were submitted to a SCDHEC certified laboratory for analyses. The samples were analyzed for Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, Methyl tertiary butyl ether, 1,2-Dichloroethane, Oxygenates, Ethanol, PAHs, and EDB.

Field conditions were documented throughout the sampling event. All field measurement equipment was properly cleaned and decontaminated before use, between each well, and prior to site departure in accordance with

“Appendix H: Standard Field Cleaning Procedures” of the SCDHEC UST QAPP, Revision 3.1. By-products were initially stored onsite in 55-gallon drums and transported to US Water Recovery for disposal. The field measurement equipment was properly calibrated prior to the sampling event each day, after four (4) hours of use, and at the completion of the event each day. The calibration and verification data for the sampling event is provided in Appendix B.

Depth to groundwater measurements were taken with reference to the top of well casing (TOC) and converted to elevations by subtracting the depth to groundwater measurements from the TOC elevations. Potentiometric data are provided in Section I as Table 2 and on the Groundwater Sampling Logs provided in Appendix B. The groundwater measurements collected during the sampling event for the no-purge wells are provided as follows:

| <b>SECTION E -1<br/>                     GROUNDWATER MEASUREMENTS (NO PURGE SAMPLING)<br/>                     HOT SPOT #3005<br/>                     CHESNEE, SOUTH CAROLINA<br/>                     SCDHEC UST PERMIT #12719</b> |           |                        |                      |                   |           |                  |
|--|-----------|------------------------|----------------------|-------------------|-----------|------------------|
| Well   | Date      | pH                     | Specific Conductance | Water Temperature | Turbidity | Dissolved Oxygen |
| Units  | --        | su                     | mS/cm                | °C                | NTU       | mg/L             |
| 12719-MW2R   | 9/11/2019 | 5.31                   | 0.189                | 21.8              | 0.0       | 2.20             |
| 12719-MW3R   | 9/11/2019 | 5.84                   | 0.117                | 28.0              | 4.8       | 3.45             |
| 12719-MW5  | 9/10/2019 | 4.87                   | 0.075                | 21.2              | 356       | 2.39             |
| 12719-MW10   | 9/10/2019 | 3.80                   | 0.040                | 21.7              | 57.1      | 1.01             |
| 12719-MW11   | 9/10/2019 | 4.07                   | 0.056                | 22.2              | 2.7       | 5.06             |
| 12719-MW13   | 9/10/2019 | 4.30                   | 0.089                | 21.9              | 0.0       | 6.11             |
| 12719-MW14   | 9/11/2019 | 3.97                   | 0.114                | 21.82             | 56.1      | 2.42             |
| 12719-MW15   | 9/10/2019 | 4.60                   | 0.137                | 25.29             | 497       | 2.73             |
| 12719-MW16   | 9/11/2019 | 4.81                   | 0.072                | 24.7              | 499       | 3.33             |
| 12719-MW17   | 9/10/2019 | 4.62                   | 0.026                | 19.86             | 110       | 7.30             |
| 12719-MW18   | 9/10/2019 | 4.97                   | 0.045                | 20.0              | 2.2       | 8.23             |
| 12719-MW19   | 9/11/2019 | 4.08                   | 0.150                | 20.8              | 0.0       | 5.35             |
| 12719-MW20   | 9/11/2019 | 4.08                   | 0.067                | 20.25             | 497       | 4.12             |
| 12719-MW21   | 9/11/2019 | 3.88                   | 0.154                | 20.5              | 155       | 6.01             |
| 12719-MW22   | 9/11/2019 | 4.63                   | 0.033                | 22.20             | 11.6      | 4.60             |
| 12719-MW23   | 9/11/2019 | 4.61                   | 0.029                | 23.15             | 9.6       | 3.57             |
| 12719-MW24   | 9/10/2019 | 6.33                   | 0.068                | 22.29             | 276       | 3.82             |
| 12719-MW25   | 9/11/2019 | 4.22                   | 0.079                | 21.5              | 190       | 4.40             |
| 12719-RW1  | 9/11/2019 | Free Product (0.20 ft) |                      |                   |           |                  |

|           |           |      |       |      |     |      |
|-----------|-----------|------|-------|------|-----|------|
| 12719-RW2 | 9/11/2019 | 5.05 | 0.132 | 22.0 | 0.0 | 1.90 |
| 12719-RW3 | 9/11/2019 | 5.28 | 0.107 | 25.9 | 0.0 | 2.29 |

**NOTES/KEY:**

su = standard unit  
 mS/cm = milliSiemens per centimeter  
 NTU = nephelometric turbidity units  
 mg/L = milligrams per liter

**2. Purging Methodology**

Purging was conducted from the least contaminated wells to the most contaminated wells based on the previous assessment data. Prior to purging, new plastic sheeting was placed on the ground surface around the well to prevent contamination of pumps, hoses, meters, etc. For monitoring wells with smaller casing volumes and/or slow recharge rates, a new disposable bailer was utilized for purging. When utilized, the purge pump was lowered approximately 3-5 feet into the standing water column and adjusted only if the pumping rate exceeded the recovery rate as drawdown occurred. In accordance with the SCDHEC UST QAPP, Revision 3.1, an adequate purge was achieved when pH, specific conductance, and temperature of the groundwater stabilized, and turbidity either stabilized or was below 10 nephelometric turbidity units (NTUs). The purge water generated was initially stored onsite in 55-gallon drums. The water generated was transported to US Water Recovery for disposal and the disposal manifest is provided in Appendix G.

If a well was pumped or purged dry, even with reduced purge rates, the well was considered adequately purged per the SCDHEC UST QAPP, Revision 3.1. The sample was collected immediately following sufficient recovery to fill all sampling containers. The groundwater measurements collected during the sampling event for the purged wells are provided as follows:

| SECTION E - 2<br>GROUNDWATER MEASUREMENTS (PURGE SAMPLING)<br>HOT SPOT #3005<br>CHESNEE, SOUTH CAROLINA<br>SCDHEC UST PERMIT #12719 |                  |       |       |             |             |              |
|---|------------------|-------|-------|-------------|-------------|--------------|
| <b>12719-MW1R</b>   | <b>9/11/2019</b> |       |       |             |             |              |
| Volume (gal)  | Intitial         | 2.25  | 4.5   | 6.75        | 9           | 11.25/Sample |
| Time (military)   | 1120             | 1127  | 1140  | 1151        | 1158        | 1212         |
| pH (su)   | 5.37             | 5.36  | 5.48  | 5.32        | 5.33        | 5.30         |
| Spec Conductivity (mS/cm)   | 0.069            | 0.133 | 0.140 | 0.126       | 0.137       | 0.135        |
| Water Temperature (°C)  | 22.3             | 22.05 | 22.1  | 22.89       | 23.0        | 23.1         |
| Turbidity (NTU)   | 0.0              | 19.6  | 30.5  | 17.7        | 16.0        | 6.7          |
| Dissolved Oxygen (mg/L)   | 3.05             | 1.62  | 1.77  | 1.72        | 3.80        | 3.39         |
| <b>12719-MW4</b>  | <b>9/10/2019</b> |       |       |             |             |              |
| Volume (gal)  | Intitial         | 4.00  | 8.00  | 12.00       | 16          | 20/Sample    |
| Time (military)   | 1430             | 1433  | 1436  | 1440        | 1443        | 1446         |
| pH (su)   | 5.88             | 6.16  | 6.28  | 6.32        | 6.37        | 6.43         |
| Spec Conductivity (mS/cm)   | 0.155            | 0.158 | 0.159 | 0.159       | 0.157       | 0.158        |
| Water Temperature (°C)  | 24.0             | 22.1  | 21.2  | 21.7        | 22.3        | 21.5         |
| Turbidity (NTU)   | 115              | 131   | 0.0   | 0.0         | 0.0         | 0.0          |
| Dissolved Oxygen (mg/L)   | 3.70             | 2.01  | 3.11  | 3.30        | 4.92        | 4.95         |
| <b>12719-MW6</b>  | <b>9/10/2019</b> |       |       |             |             |              |
| Volume (gal)  | Intitial         | 2.25  | 4.50  | 6.75        | 9           | 11.25/Sample |
| Time (military)   | 1656             | 1700  | 1706  | 1731        | 1735        | 1739         |
| pH (su)   | 5.63             | 4.86  | 4.89  | 4.63        | 4.48        | 4.48         |
| Spec Conductivity (mS/cm)   | 0.040            | 0.277 | 0.255 | 0.229       | 0.278       | 0.277        |
| Water Temperature (°C)  | 26.1             | 24.2  | 22.8  | 22.4        | 21.8        | 22.0         |
| Turbidity (NTU)   | 6.4              | 50.2  | 149   | 130         | 75.0        | 71.5         |
| Dissolved Oxygen (mg/L)   | 4.45             | 3.51  | 3.55  | 3.80        | 3.60        | 2.61         |
| <b>12719-MW7</b>  | <b>9/10/2019</b> |       |       |             |             |              |
| Volume (gal)  | Intitial         | 2.5   | 5.0   | 7.5         | 10.0/Sample |              |
| Time (military)   | 1710             | 1729  | 1739  | 1750        | 1758        |              |
| pH (su)   | 4.81             | 4.50  | 4.22  | 3.98        | 3.95        |              |
| Spec Conductivity (mS/cm)   | 0.038            | 0.045 | 0.052 | 0.049       | 0.047       |              |
| Water Temperature (°C)  | 22.6             | 23.0  | 21.4  | 21.3        | 21.2        |              |
| Turbidity (NTU)   | 7.3              | 44.6  | 37.1  | 34.7        | 33.4        |              |
| Dissolved Oxygen (mg/L)   | 6.34             | 4.97  | 5.62  | 5.96        | 5.42        |              |
| <b>12719-MW8R</b>   | <b>9/10/2019</b> |       |       |             |             |              |
| Volume (gal)  | Intitial         | 2.25  | 4.50  | 6.75/Sample |             |              |
| Time (military)   | 1359             | 1402  | 1405  | 1415        |             |              |
| pH (su)   | 4.47             | 4.39  | 4.24  | 4.05        |             |              |
| Spec Conductivity (mS/cm)   | 0.021            | 0.026 | 0.027 | 0.028       |             |              |
| Water Temperature (°C)  | 22.2             | 21.2  | 21.0  | 20.8        |             |              |
| Turbidity (NTU)   | 104              | 499   | 496   | 498         |             |              |
| Dissolved Oxygen (mg/L)   | 5.35             | 6.03  | 5.67  | 6.00        |             |              |
| <b>12719-MW9</b>  | <b>9/10/2019</b> |       |       |             |             |              |
| Volume (gal)  | Intitial         | 2.5   | 5.0   | 7.5/Sample  |             |              |
| Time (military)   | 1747             | 1755  | 1805  | 1811        |             |              |
| pH (su)   | 4.15             | 4.09  | 4.10  | 4.20        |             |              |
| Spec Conductivity (mS/cm)   | 0.038            | 0.049 | 0.045 | 0.047       |             |              |
| Water Temperature (°C)  | 21.3             | 20.7  | 21.1  | 20.6        |             |              |
| Turbidity (NTU)   | 0.0              | 98.3  | 114   | 110         |             |              |
| Dissolved Oxygen (mg/L)   | 4.13             | 3.84  | 4.01  | 4.04        |             |              |



| <b>12719-MW10R</b>        |          | <b>9/10/2019</b> |       |                 |       |           |  |
|---------------------------|----------|------------------|-------|-----------------|-------|-----------|--|
| Volume (gal)              | Intitial | 2.25             | 4.5   | 6.75/Sample     |       |           |  |
| Time (military)           | 1250     | 1256             | 1302  | 1308            |       |           |  |
| pH (su)                   | 3.73     | 3.78             | 3.87  | 3.87            |       |           |  |
| Spec Conductivity (mS/cm) | 0.046    | 0.051            | 0.050 | 0.050           |       |           |  |
| Water Temperature (°C)    | 22.7     | 21.5             | 21.9  | 21.9            |       |           |  |
| Turbidity (NTU)           | 15.0     | 181              | 177   | 193             |       |           |  |
| Dissolved Oxygen (mg/L)   | 3.60     | 2.63             | 2.81  | 2.77            |       |           |  |
| <b>12719-MW11R</b>        |          | <b>9/10/2019</b> |       |                 |       |           |  |
| Volume (gal)              | Intitial | 2                | 4     | 6/Sample        |       |           |  |
| Time (military)           | 1229     | 1234             | 1241  | 1246            |       |           |  |
| pH (su)                   | 3.94     | 3.89             | 3.81  | 3.76            |       |           |  |
| Spec Conductivity (mS/cm) | 0.051    | 0.043            | 0.042 | 0.043           |       |           |  |
| Water Temperature (°C)    | 21.6     | 21.0             | 20.5  | 20.5            |       |           |  |
| Turbidity (NTU)           | 8.0      | 476              | 447   | 429             |       |           |  |
| Dissolved Oxygen (mg/L)   | 4.90     | 5.00             | 4.82  | 4.90            |       |           |  |
| <b>12719-MW12</b>         |          | <b>9/10/2019</b> |       |                 |       |           |  |
| Volume (gal)              | Intitial | 2.75             | 5.5   | 8.25/Sample     |       |           |  |
| Time (military)           | 1153     | 1204             | 1213  | 1221            |       |           |  |
| pH (su)                   | 4.50     | 4.54             | 4.23  | 4.16            |       |           |  |
| Spec Conductivity (mS/cm) | 0.207    | 0.095            | 0.095 | 0.091           |       |           |  |
| Water Temperature (°C)    | 22.6     | 21.5             | 20.8  | 21.3            |       |           |  |
| Turbidity (NTU)           | 12.0     | 191              | 207   | 213             |       |           |  |
| Dissolved Oxygen (mg/L)   | 6.40     | 6.20             | 6.10  | 6.10            |       |           |  |
| <b>12719-MW1D</b>         |          | <b>9/11/2019</b> |       |                 |       |           |  |
| Volume (gal)              | Intitial | 6                | 12    | 18              | 24    | 30/Sample |  |
| Time (military)           | 1031     | 1035             | 1040  | 1043            | 1046  | 1050      |  |
| pH (su)                   | 5.42     | 5.36             | 5.37  | 5.32            | 5.23  | 5.18      |  |
| Spec Conductivity (mS/cm) | 0.071    | 0.055            | 0.054 | 0.054           | 0.051 | 0.050     |  |
| Water Temperature (°C)    | 23.0     | 21.3             | 20.9  | 20.4            | 20.2  | 20.0      |  |
| Turbidity (NTU)           | 46.1     | 5.4              | 10.3  | 2.7             | 0.0   | 0.0       |  |
| Dissolved Oxygen (mg/L)   | 4.55     | 6.50             | 4.50  | 5.58            | 5.43  | 6.21      |  |
| <b>12719-DW2</b>          |          | <b>9/11/2019</b> |       |                 |       |           |  |
| Volume (gal)              | Intitial | 5.25             | 10.5  | 15.75/Sample    |       |           |  |
| Time (military)           | 1400     | 1404             | 1407  | 1412            |       |           |  |
| pH (su)                   | 5.66     | 5.46             | 5.43  | 5.37            |       |           |  |
| Spec Conductivity (mS/cm) | 0.053    | 0.047            | 0.046 | 0.047           |       |           |  |
| Water Temperature (°C)    | 27.2     | 23.2             | 22.6  | 22.3            |       |           |  |
| Turbidity (NTU)           | 0.0      | 0.0              | 0.0   | 0.0             |       |           |  |
| Dissolved Oxygen (mg/L)   | 4.97     | 5.27             | 5.33  | 5.44            |       |           |  |
| <b>12719-DW3</b>          |          | <b>9/10/2019</b> |       |                 |       |           |  |
| Volume (gal)              | Intitial | 6.5              | 7.5   | 7.75/Dry/Sample |       |           |  |
| Time (military)           | 1512     | 1515             | 1516  | 1528            |       |           |  |
| pH (su)                   | 6.10     | 6.96             | 6.99  | 6.94            |       |           |  |
| Spec Conductivity (mS/cm) | 0.242    | 0.238            | 0.236 | 0.239           |       |           |  |
| Water Temperature (°C)    | 26.0     | 22.5             | 21.8  | 22.3            |       |           |  |
| Turbidity (NTU)           | 3.1      | 176              | 186   | 299             |       |           |  |
| Dissolved Oxygen (mg/L)   | 2.48     | 1.94             | 2.07  | 2.50            |       |           |  |

**NOTES/KEY:**

gal = gallons  
 su = standard unit  
 mS/cm = milliSiemens per centimeter  
 NTU = nephelometric turbidity units  
 mg/L = milligrams per liter

### **3. Free Product Measurements**

Free-phase petroleum was measured in RW-1 (0.20 feet) on September 11, 2019. Therefore, monitoring well RW-1 was not sampled.

**F. AFVR INFORMATION**

Not Applicable. No Aggressive Fluid Vapor Recovery (AFVR) Events were performed during this scope of work.

**G. GRANULATED ACTIVATED CARBON INSTALLATION**

Not Applicable. No granulated activated carbon units were installed during this scope of work.

## **H. RESULTS & DISCUSSION**

### **1. Assessment Results**

During this scope of work, TERRY conducted a comprehensive groundwater sampling event on September 10 and September 11, 2019 in accordance with the SCDHEC UST QAPP, Revision 3.1 and the associated site-specific work plan submitted in August 2019.

The groundwater analytical data are summarized in Section I as Table 3, and are included in Appendix B. The analytical data were used to generate contaminant concentration maps for CoC's detected by the laboratory and are provided in Section J as Figures 4A, 4B, and 4C. Based on the analytical data from the comprehensive sampling event, shallow groundwater contamination is observed onsite in the vicinity of the diesel UST basin (MW-1R, MW-6, RW-1, and RW-2), the gasoline UST basin (MW-3R and RW-3), and down gradient near the dispenser area (MW-5 and MW-16). The plume remains horizontally defined. The plume remains vertically defined in the source area and downgradient to the west-southwest. The sample collected from the surface water location (SW-1) did not show evidence of petroleum contamination.

Due to the rebound on free-phase product, TERRY recommends conducting a 96-hour AFVR Event utilizing the recovery wells.

### **2. Aquifer Evaluation Results**

Not Applicable

### **3. Fate & Transport Results**

Not Applicable

### **4. Tier 1 Risk Evaluation**

Not Applicable

### **5. Tier 2 Risk Evaluation**

Not Applicable

**I. TABLES**

**1. Soil Analytical Data**

Table 1 Soil Analytical Data - Not Applicable

**2. Potentiometric Data**

Table 2 Groundwater Potentiometric Data - Attached

**3. Laboratory Data**

Table 3 Groundwater Laboratory Data - Attached

**4. Aquifer Characteristics**

Table 4 Aquifer Characteristics - Not Applicable

**5. Site Conceptual Model**

Table 5 Site Conceptual Model - Not Applicable

**TABLE 2  
GROUNDWATER POTENTIOMETRIC DATA  
HOT SPOT # 3005  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719  
TERRY PROJECT #2230.8K**

| Well #     | DATE       | TOC Elevation | Screened Interval | Depth to Product** (ft)       | Depth to Water** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |  |
|------------|------------|---------------|-------------------|-------------------------------|-----------------------|------------------------|----------------------------|--|
| 12719-MW1  | 8/18/2005  | 104.89        | 20'-30'           | --                            | 23.69                 | --                     | 81.20                      |  |
|            | 10/2/2008  |               | 20'-30'           | --                            | 29.77                 | --                     | 75.12                      |  |
|            | 10/31/2011 |               | 20'-30'           | --                            | 29.20                 | --                     | 75.69                      |  |
|            | 12/30/2014 |               | 20'-30'           | 25.87                         | 26.00                 | 0.13                   | 78.89                      |  |
|            | 7/25/2017  |               | 20'-30'           | 26.35                         | 26.46                 | 0.11                   | 78.43                      |  |
|            | 5/30/2018  |               | 20'-30'           | --                            | 26.45                 | --                     | 78.44                      |  |
|            | 5/30/2018  |               | 20'-30'           | Well Abandoned After Sampling |                       |                        |                            |  |
| 12719-MW1R | 5/30/2018  | 889.6         | TD 36'            | --                            | 26.18                 | --                     | 863.42                     |  |
|            | 9/11/2019  |               | TD 36'            | --                            | 22.46                 | --                     | 867.14                     |  |
| 12719-MW2  | 8/18/2005  | Unknown       | 26'-36'           | --                            | 23.69                 | --                     | --                         |  |
|            | 10/2/2008  |               | 26'-36'           | --                            | 29.61                 | --                     | --                         |  |
|            | 10/31/2011 |               | 26'-36'           | --                            | 29.03                 | --                     | --                         |  |
|            | 12/30/2104 |               | 26'-36'           | --                            | 25.41                 | --                     | --                         |  |
|            | 7/25/2017  |               | 26'-36'           | --                            | 26.16                 | --                     | --                         |  |
|            | 5/30/2018  |               | 26'-36'           | Well Abandoned                |                       |                        |                            |  |
| 12719-MW2R | 5/30/2018  | 889.25        | 20'-30'           | --                            | 26.16                 | --                     | 863.09                     |  |
|            | 9/11/2019  |               | 20'-30'           | --                            | 22.43                 | --                     | 866.82                     |  |
| 12719-MW3  | 5/30/2018  | Unknown       | TD 32'            | --                            | 29.00                 | --                     | --                         |  |
|            | 5/30/2018  |               | TD 32'            | Well Abandoned After Sampling |                       |                        |                            |  |
| 12719-MW3R | 8/18/2005  | 104.92        | 26'-36'           | --                            | 27.15                 | --                     | 77.77                      |  |
|            | 10/2/2008  |               | 26'-36'           | --                            | 32.40                 | --                     | 72.52                      |  |
|            | 10/31/2011 |               | 26'-36'           | --                            | 32.12                 | --                     | 72.80                      |  |
|            | 12/30/2014 |               | 26'-36'           | --                            | 28.56                 | --                     | 76.36                      |  |
|            | 7/25/2017  |               | 26'-36'           | --                            | 29.01                 | --                     | 75.91                      |  |
|            | 5/30/2018  | 890.25        | 26'-36'           | --                            | 29.21                 | --                     | 861.04                     |  |
|            | 9/11/2019  |               | 26'-36'           | --                            | 26.12                 | --                     | 864.13                     |  |
| 12719-MW4  | 8/18/2005  | 111.32        | 36'-46'           | --                            | 23.25                 | --                     | 88.07                      |  |
|            | 10/2/2008  |               | 36'-46'           | --                            | 29.57                 | --                     | 81.75                      |  |
|            | 10/31/2011 |               | 36'-46'           | Not sampled                   |                       |                        |                            |  |
|            | 12/30/2014 |               | 36'-46'           | --                            | 23.95                 | --                     | 87.37                      |  |
|            | 7/25/2017  | 36'-46'       | --                | 25.78                         | --                    | 85.54                  |                            |  |
|            | 5/30/2018  | 896.27        | 36'-46'           | --                            | 25.45                 | --                     | 870.82                     |  |
|            | 9/10/2019  |               | 36'-46'           | --                            | 21.46                 | --                     | 874.81                     |  |
| 12719-MW5  | 8/18/2005  | 103.57        | 22'-32'           | --                            | 29.03                 | --                     | 74.54                      |  |
|            | 10/2/2008  |               | 22'-32'           | --                            | 31.94                 | --                     | 71.63                      |  |
|            | 10/31/2011 |               | 22'-32'           | --                            | 31.80                 | --                     | 71.77                      |  |
|            | 12/30/2014 |               | 22'-32'           | --                            | 30.02                 | --                     | 73.55                      |  |
|            | 7/25/2017  |               | 22'-32'           | --                            | 30.51                 | --                     | 73.06                      |  |
|            | 5/30/2018  | 888.97        | 22'-32'           | --                            | 28.20                 | --                     | 860.77                     |  |
|            | 9/10/2019  |               | 22'-32'           | --                            | 27.70                 | --                     | 861.27                     |  |
| 12719-MW6  | 8/18/2005  | 104.14        | 26'-36'           | --                            | 24.22                 | --                     | 79.92                      |  |
|            | 10/2/2008  |               | 26'-36'           | --                            | 29.89                 | --                     | 74.25                      |  |
|            | 10/31/2011 |               | 26'-36'           | --                            | 30.57                 | --                     | 73.57                      |  |
|            | 12/30/2014 |               | 26'-36'           | --                            | 25.92                 | --                     | 78.22                      |  |
|            | 7/25/2017  |               | 26'-36'           | --                            | 26.40                 | --                     | 77.74                      |  |
|            | 5/30/2018  | 889.14        | 26'-36'           | --                            | 26.50                 | --                     | 862.64                     |  |
|            | 9/10/2019  |               | 26'-36'           | --                            | 22.83                 | --                     | 866.31                     |  |

**TABLE 2  
GROUNDWATER POTENTIOMETRIC DATA  
HOT SPOT # 3005  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719  
TERRY PROJECT #2230.8K**

| Well #      | DATE       | TOC Elevation | Screened Interval                  | Depth to Product** (ft)   | Depth to Water** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |
|-------------|------------|---------------|------------------------------------|---------------------------|-----------------------|------------------------|----------------------------|
| 12719-MW7   | 8/18/2005  | 104.52        | 26'-36'                            | --                        | 22.74                 | --                     | 81.78                      |
|             | 10/2/2008  |               | 26'-36'                            | --                        | 28.90                 | --                     | 75.62                      |
|             | 10/31/2011 |               | 26'-36'                            | Not sampled               |                       |                        |                            |
|             | 12/30/2014 | 889.52        | 26'-36'                            | --                        | 23.89                 | --                     | 80.63                      |
|             | 7/25/2017  |               | 26'-36'                            | --                        | 25.31                 | --                     | 79.21                      |
|             | 5/29/2018  |               | 26'-36'                            | --                        | 25.32                 | --                     | 864.20                     |
|             | 9/10/2019  |               | 26'-36'                            | --                        | 21.29                 | --                     | 868.23                     |
| 12719-MW8   | 8/18/2005  | 101.79        | Unknown                            | --                        | 18.05                 | --                     | 83.74                      |
|             | 10/2/2008  |               | Unknown                            | Well could not be located |                       |                        |                            |
|             | 10/31/2011 |               | Unknown                            | Not sampled               |                       |                        |                            |
|             | 12/30/2014 | Unknown       | --                                 | 21.53                     | --                    | 80.26                  |                            |
|             | 7/25/2017  | Unknown       | Could Not Find - Assumed Destroyed |                           |                       |                        |                            |
|             | 5/30/2018  | Unknown       | Could Not Find - Assumed Destroyed |                           |                       |                        |                            |
|             | 12719-MW8R | 5/29/2018     | 888.01                             | 20'-30'                   | --                    | 21.10                  | --                         |
| 9/10/2019   |            | 20'-30'       |                                    | --                        | 17.40                 | --                     | 870.61                     |
| 12719-MW9   | 8/18/2005  | 105.43        | Unknown                            | --                        | 22.95                 | --                     | 82.48                      |
|             | 10/2/2008  |               | Unknown                            | --                        | 29.38                 | --                     | 76.05                      |
|             | 10/31/2011 |               | Unknown                            | Not sampled               |                       |                        |                            |
|             | 12/30/2014 | Unknown       | --                                 | 24.02                     | --                    | 81.41                  |                            |
|             | 7/25/2017  | Unknown       | --                                 | 25.22                     | --                    | 80.21                  |                            |
|             | 5/29/2018  | 890.41        | Unknown                            | --                        | 25.26                 | --                     | 865.15                     |
|             | 9/10/2019  |               | Unknown                            | --                        | 21.13                 | --                     | 869.28                     |
| 12719-MW10  | 8/18/2005  | 96.57         | 17'-27'                            | --                        | --                    | --                     | --                         |
|             | 10/31/2011 |               | 17'-27'                            | Not sampled               |                       |                        |                            |
|             | 12/30/2014 |               | 17'-27'                            | Not sampled               |                       |                        |                            |
|             | 5/29/2018  | 881.6         | 17'-27'                            | --                        | 21.24                 | --                     | 860.36                     |
|             | 9/10/2019  |               | 17'-27'                            | --                        | 18.49                 | --                     | 863.11                     |
|             |            |               |                                    |                           |                       |                        |                            |
| 12719-MW10R | 8/18/2005  | Unknown       | 22'-32'                            | --                        | 19.67                 | --                     | --                         |
|             | 10/2/2008  |               | 22'-32'                            | --                        | 24.50                 | --                     | --                         |
|             | 10/31/2011 |               | 22'-32'                            | --                        | 24.39                 | --                     | --                         |
|             | 12/30/2014 |               | 22'-32'                            | --                        | 21.13                 | --                     | --                         |
|             | 7/24/2017  |               | 22'-32'                            | --                        | 21.35                 | --                     | --                         |
|             | 5/29/2018  | 881.77        | 22'-32'                            | --                        | 21.42                 | --                     | 860.35                     |
|             | 9/10/2019  |               | 22'-32'                            | --                        | 18.70                 | --                     | 863.07                     |
| 12719-MW11  | 8/18/2005  | 95.15         | 18'-28'                            | --                        | --                    | --                     | --                         |
|             | 10/2/2008  |               | 18'-28'                            | --                        | 24.85                 | --                     | 70.30                      |
|             | 10/31/2011 |               | 18'-28'                            | Not sampled               |                       |                        |                            |
|             | 12/30/2014 |               | 18'-28'                            | Not sampled               |                       |                        |                            |
|             | 5/29/2018  | 880.2         | 18'-28'                            | --                        | 21.90                 | --                     | 858.3                      |
|             | 9/10/2019  |               | 18'-28'                            | --                        | 20.06                 | --                     | 860.14                     |
| 12719-MW11R | 8/18/2005  | Unknown       | 22'-32'                            | --                        | 20.68                 | --                     | --                         |
|             | 10/2/2008  |               | 22'-32'                            | Well could not be located |                       |                        |                            |
|             | 10/31/2011 |               | 22'-32'                            | Not sampled               |                       |                        |                            |
|             | 12/30/2014 | 22'-32'       | --                                 | 21.91                     | --                    | --                     |                            |
|             | 7/24/2017  | 22'-32'       | --                                 | 22.50                     | --                    | --                     |                            |
|             | 5/29/2018  | 880.33        | 22'-32'                            | Obstructed                |                       |                        |                            |
|             | 9/10/2019  |               | 22'-32'                            | --                        | 20.25                 | --                     | 860.08                     |

**TABLE 2  
GROUNDWATER POTENTIOMETRIC DATA  
HOT SPOT # 3005  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719  
TERRY PROJECT #2230.8K**

| Well #     | DATE       | TOC Elevation | Screened Interval | Depth to Product** (ft) | Depth to Water** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |
|------------|------------|---------------|-------------------|-------------------------|-----------------------|------------------------|----------------------------|
| 12719-MW12 | 8/18/2005  | 97.03         | 20'-30'           | --                      | 19.57                 | --                     | 77.46                      |
|            | 10/2/2008  |               | 20'-30'           | --                      | 25.35                 | --                     | 71.68                      |
|            | 10/31/2011 |               | 20'-30'           | Not sampled             |                       |                        |                            |
|            | 12/30/2014 | 882.13        | 20'-30'           | --                      | 21.37                 | --                     | 75.66                      |
|            | 7/24/2017  |               | 20'-30'           | --                      | 21.10                 | --                     | 75.93                      |
|            | 5/29/2018  |               | 20'-30'           | --                      | 20.91                 | --                     | 861.22                     |
|            | 9/10/2019  |               | 20'-30'           | --                      | 17.89                 | --                     | 864.24                     |
| 12719-MW13 | 8/18/2005  | 95.89         | 17'-27'           | --                      | 20.62                 | --                     | 75.27                      |
|            | 10/2/2008  |               | 17'-27'           | --                      | 25.27                 | --                     | 70.62                      |
|            | 10/31/2011 |               | 17'-27'           | Not sampled             |                       |                        |                            |
|            | 12/30/2014 | 880.92        | 17'-27'           | --                      | 22.08                 | --                     | 73.81                      |
|            | 7/24/2017  |               | 17'-27'           | --                      | 21.91                 | --                     | 73.98                      |
|            | 5/29/2018  |               | 17'-27'           | --                      | 21.63                 | --                     | 859.29                     |
|            | 9/10/2019  |               | 17'-27'           | --                      | 19.65                 | --                     | 861.27                     |
| 12719-MW14 | 8/18/2005  | Unknown       | 21'-31'           | --                      | 24.84                 | --                     | --                         |
|            | 10/2/2008  |               | 21'-31'           | --                      | 28.46                 | --                     | --                         |
|            | 10/31/2011 |               | 21'-31'           | Not sampled             |                       |                        |                            |
|            | 12/30/2014 | 882.98        | 21'-31'           | --                      | 30.60                 | --                     | --                         |
|            | 7/25/2017  |               | 21'-31'           | --                      | 26.03                 | --                     | --                         |
|            | 5/29/2018  |               | 21'-31'           | --                      | 25.78                 | --                     | 857.2                      |
|            | 9/11/2019  |               | 21'-31'           | --                      | 24.12                 | --                     | 858.86                     |
| 12719-MW15 | 7/25/2017  | 99.70         | 25'-35'           | --                      | 28.60                 | --                     | 71.10                      |
|            | 5/29/2018  | 885.13        | 25'-35'           | --                      | 28.20                 | --                     | 856.93                     |
|            | 9/10/2019  |               | 25'-35'           | --                      | 26.42                 | --                     | 858.71                     |
| 12719-MW16 | 7/25/2017  | 101.75        | 28'-38'           | --                      | 30.43                 | --                     | 71.32                      |
|            | 5/29/2018  | 887.14        | 28'-38'           | --                      | 30.09                 | --                     | 857.05                     |
|            | 9/11/2019  |               | 28'-38'           | --                      | 28.34                 | --                     | 858.80                     |
| 12719-MW17 | 5/30/2018  | 881.76        | 20'-30'           | --                      | 25.63                 | --                     | 856.13                     |
|            | 9/10/2019  |               | 20'-30'           | --                      | 24.55                 | --                     | 857.21                     |
| 12719-MW18 | 5/30/2018  | 879.53        | 20'-30'           | --                      | 23.86                 | --                     | 855.67                     |
|            | 9/10/2019  |               | 20'-30'           | --                      | 22.96                 | --                     | 856.57                     |
| 12719-MW19 | 5/29/2018  | 880.71        | 20'-30'           | --                      | 25.43                 | --                     | 855.28                     |
|            | 9/11/2019  |               | 20'-30'           | --                      | 25.54                 | --                     | 855.17                     |
| 12719-MW20 | 5/29/2018  | 880.36        | 20'-30'           | --                      | 25.80                 | --                     | 854.56                     |
|            | 9/11/2019  |               | 20'-30'           | --                      | 25.09                 | --                     | 855.27                     |
| 12719-MW21 | 5/29/2018  | 879.02        | 20'-30'           | --                      | 24.98                 | --                     | 854.04                     |
|            | 9/11/2019  |               | 20'-30'           | --                      | 24.57                 | --                     | 854.45                     |
| 12719-MW22 | 5/30/2018  | 892.06        | 25'-35'           | --                      | 30.34                 | --                     | 861.72                     |
|            | 9/11/2019  |               | 25'-35'           | --                      | 25.85                 | --                     | 866.21                     |
| 12719-MW23 | 5/30/2018  | 890.38        | 25'-35'           | --                      | 29.34                 | --                     | 861.04                     |
|            | 9/11/2019  |               | 25'-35'           | --                      | 25.43                 | --                     | 864.95                     |
| 12719-MW24 | 5/30/2018  | 883.91        | 24'-34'           | --                      | 27.37                 | --                     | 856.54                     |
|            | 9/10/2019  |               | 24'-34'           | --                      | 26.75                 | --                     | 857.16                     |
| 12719-MW25 | 5/30/2018  | 881.63        | 20'-30'           | --                      | 25.06                 | --                     | 856.57                     |
|            | 9/11/2019  |               | 20'-30'           | --                      | 23.60                 | --                     | 858.03                     |
| 12719-RW1  | 5/30/2018  | 889.73        | 20'-30'           | --                      | 26.39                 | --                     | 863.34                     |
|            | 9/11/2019  |               | 20'-30'           | 22.26                   | 22.46                 | 0.20                   | 867.27                     |



**TABLE 2  
GROUNDWATER POTENTIOMETRIC DATA  
HOT SPOT # 3005  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719  
TERRY PROJECT #2230.8K**

| Well #     | DATE       | TOC Elevation | Screened Interval | Depth to Product** (ft) | Depth to Water** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |
|------------|------------|---------------|-------------------|-------------------------|-----------------------|------------------------|----------------------------|
| 12719-RW2  | 5/30/2018  | 889.52        | 20'-30'           | --                      | 26.29                 | --                     | 863.23                     |
|            | 9/11/2019  |               | 20'-30'           | --                      | 22.32                 | --                     | 867.20                     |
| 12719-RW3  | 5/30/2018  | 890.37        | 25'-35'           | --                      | 29.35                 | --                     | 861.02                     |
|            | 9/11/2019  |               | 25'-35'           | --                      | 26.14                 | --                     | 864.23                     |
| 12719-MW1D | 8/18/2005  | 104.61        | 55'-60'           | --                      | 24.60                 | --                     | 80.01                      |
|            | 10/2/2008  |               | 55'-60'           | --                      | 30.46                 | --                     | 74.15                      |
|            | 10/31/2011 |               | 55'-60'           | --                      | 30.03                 | --                     | 74.58                      |
|            | 12/30/2014 |               | 55'-60'           | --                      | 26.82                 | --                     | 77.79                      |
|            | 7/25/2017  |               | 55'-60'           | --                      | 27.05                 | --                     | 77.56                      |
|            | 5/30/2018  | 889.64        | 55'-60'           | --                      | 27.07                 | --                     | 862.57                     |
|            | 9/11/2019  |               | 55'-60'           | --                      | 23.18                 | --                     | 866.46                     |
| 12719-DW2  | 5/30/2018  | 887.23        | 55'-60'           | --                      | 30.44                 | --                     | 856.79                     |
|            | 9/11/2019  |               | 55'-60'           | --                      | 28.91                 | --                     | 858.32                     |
| 12719-DW3  | 5/30/2018  | 883.42        | 60'-65'           | --                      | 61.60                 | --                     | 821.82                     |
|            | 9/10/2019  |               | 60'-65'           | --                      | 25.10                 | --                     | 858.32                     |

\*\* = Relative to top of casing

-- = Not applicable

TD = Total depth

**TABLE 3  
GROUNDWATER LABORATORY DATA  
HOT SPOT #3005  
CHESNEE, SC  
SCDHEC UST PERMIT #12719  
TERRY PROJECT #2230.8K**

| Well       | Date       | Benzene                          | Toluene | Ethylbenzene | Xylenes | Naphthalene | MTBE  | 1,2 DCA | EDB    | TAME   | TBA    | DIPE  | ETBE  | ETBA   | Ethanol | TAA    | TBF   |  |
|------------|------------|----------------------------------|---------|--------------|---------|-------------|-------|---------|--------|--------|--------|-------|-------|--------|---------|--------|-------|--|
|            | Units      | ug/L                             | ug/L    | ug/L         | ug/L    | ug/L        | ug/L  | ug/L    | ug/L   | ug/L   | ug/L   | ug/L  | ug/L  | ug/L   | ug/L    | ug/L   | ug/L  |  |
| 12719-MW1  | 8/18/2005  | 85                               | 110     | 42           | 170     | 41          | <5.0  | NT      | NT     | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
|            | 10/2/2008  | Dry - Not enough water to sample |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |  |
|            | 10/31/2011 | 57.6                             | 1.93    | 36.8         | 176     | 91.4        | 8.03  | <1.0    | NT     | <5.00  | <10.0  | <5.00 | <5.00 | <100   | <1,000  | 7.42J  | <5.00 |  |
|            | 12/30/2014 | Free Product (0.13B)             |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |  |
|            | 7/25/2017  | Free Product (0.11B)             |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |  |
| 12719-MW1R | 5/30/2018  | 85                               | 4.4     | 81           | 240     | 100         | <1.0  | <1.0    | NT     | <10    | <20    | <1.0  | <1.0  | <20    | <100    | 19J    | <5.0  |  |
|            | 5/30/2018  | Well Abandoned                   |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |  |
|            | 5/30/2018  | 93                               | 9.3     | 89           | 420     | 79          | <5.0  | <5.0    | NT     | <50    | <100   | <5.0  | <5.0  | <100   | <500    | <100   | <25   |  |
|            | 9/11/2019  | 37                               | 2.0     | 64           | 220     | 99          | <1.0  | <1.0    | <0.019 | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |  |
|            | 8/18/2005  | 90                               | 100     | 78           | 350     | 94          | 8.9   | NT      | NT     | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
| 12719-MW2  | 10/2/2008  | <1.00                            | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
|            | 10/31/2011 | <1.00                            | <1.00   | <1.00        | <3.00   | 2.23J       | 11.1  | <1.00   | NT     | <5.00  | <10.0  | <5.00 | <5.00 | <100   | <1,000  | 46.3   | <5.00 |  |
|            | 12/30/2014 | 100                              | 4.6     | 98           | 380     | 120         | <1.0  | <1.0    | NT     | 0.25J  | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |  |
|            | 7/25/2017  | 64                               | 6.7     | 55           | 280     | 68          | <5.0  | <5.0    | <0.020 | <50    | <100   | <5.0  | <5.0  | <100   | <500    | <100   | <25   |  |
|            | 5/30/2018  | Well Abandoned                   |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |  |
| 12719-MW2R | 5/30/2018  | 5.4                              | <1.0    | 12           | 73      | 26          | <1.0  | <1.0    | NT     | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |  |
|            | 9/11/2019  | 4.9                              | <1.0    | 0.58J        | 3.1     | <1.0        | 1.9   | <1.0    | <0.019 | <10    | 26     | 0.56J | <1.0  | <20    | <100    | 9.3J   | <5.0  |  |
| 12719-MW3  | 5/30/2018  | 3,700                            | <100    | 210          | 1,500   | 96J         | 130   | <100    | NT     | <1000  | <2,000 | 130   | <100  | <2,000 | <10,000 | 2,600  | <500  |  |
|            | 5/30/2018  | Well Abandoned                   |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |  |
| 12719-MW3R | 8/18/2005  | 270                              | 41      | 170          | 880     | 430         | 330   | NT      | NT     | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
|            | 10/2/2008  | 562                              | <25.0   | 272          | 261     | 96.5J       | 4,160 | <25.0   | <0.010 | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
|            | 10/31/2011 | 196                              | <20.0   | 39.1         | 31.3J   | 143         | 2,060 | <20.0   | NT     | 163    | 255    | 53.3J | <100  | <2,000 | <20,000 | 282J   | <100  |  |
|            | 12/30/2014 | 1,300                            | 38      | 77           | 530     | 14J         | 85    | <20     | NT     | 5.3J   | 250J   | 30    | <20   | <400   | <2,000  | 2,500  | <100  |  |
|            | 7/25/2017  | 3,800                            | 140     | 270          | 1,500   | 43J         | <100  | <100    | <0.020 | <1,000 | <2,000 | 100   | <100  | <2,000 | <10,000 | 2,700  | <500  |  |
| 12719-MW4  | 5/30/2018  | 160                              | <5.0    | <5.0         | 30      | 2.0J        | <5.0  | <5.0    | NT     | <50    | <100   | 4.1J  | <5.0  | <100   | <500    | 68J    | <25   |  |
|            | 9/11/2019  | 860                              | <10     | 17           | 73      | 28          | 41    | <10     | <0.019 | 12J    | 170J   | 130   | <10   | <200   | 1,300   | 730    | <50   |  |
|            | 8/18/2005  | <1.0                             | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
|            | 10/2/2008  | <1.00                            | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
|            | 10/31/2011 | Not sampled                      |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |  |
| 12719-MW5  | 12/30/2014 | <1.0                             | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |  |
|            | 7/25/2017  | <1.0                             | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |  |
|            | 5/30/2018  | <1.0                             | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |  |
|            | 9/10/2019  | <1.0                             | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |  |
|            | 8/18/2005  | <1.0                             | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
| 12719-MW6  | 10/2/2008  | Dry - Not enough water to sample |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |  |
|            | 10/31/2011 | 110                              | 11.5    | <1.00        | 9.27    | <5.00       | 4.31  | <1.00   | NT     | <5.00  | 7.11J  | <5.00 | <5.00 | <100   | <1,000  | 32.0   | <5.00 |  |
|            | 12/30/2014 | 680                              | 910     | 72           | 360     | <20         | <20   | <20     | NT     | <200   | <400   | <20   | <20   | <400   | <2,000  | 130J   | <100  |  |
|            | 7/25/2017  | 1,500                            | 1,500   | 73           | 1,300   | <50         | <50   | <50     | <0.020 | <500   | <1,000 | <50   | <50   | <1,000 | <5,000  | <1,000 | <250  |  |
|            | 5/30/2018  | <1.0                             | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |  |
| 12719-MW6  | 9/10/2019  | 1,300                            | 910     | 120          | 1,500   | 8.8J        | 24    | <20     | <0.019 | <200   | <400   | <20   | <20   | <400   | <2,000  | 320J   | <100  |  |
|            | 8/18/2005  | 7.8                              | 6.3     | 5.5          | 52      | 22          | 6.8   | NT      | NT     | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
|            | 10/2/2008  | 9.16                             | 1.15    | 16.9         | 133     | 43.8        | <1.00 | <1.00   | <0.010 | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
|            | 10/31/2011 | 10.4                             | <1.00   | 3.17         | 91.5    | 65.4        | <1.00 | <1.00   | NT     | <5.00  | <10.0  | <5.00 | <5.00 | <100   | <1,000  | 8.52J  | <5.00 |  |
|            | 12/30/2014 | 2.2                              | <1.0    | <1.0         | 13      | 9.2         | <1.0  | <1.0    | NT     | 0.34J  | 12J    | 1.1   | <1.0  | <20    | <100    | <20    | <5.0  |  |
| 7/25/2017  | 1.7        | <1.0                             | 0.45J   | 2.8          | <1.0    | 2.1         | <1.0  | <0.020  | <10    | 11J    | <1.0   | <1.0  | <20   | <100   | <20     | <5.0   |       |  |
| 5/30/2018  | 2.2        | <1.0                             | 0.61J   | 3.5          | 0.54J   | 1.6         | <1.0  | NT      | <10    | 18J    | 0.42J  | <1.0  | <20   | <100   | <20     | <5.0   |       |  |
| 9/10/2019  | 24         | <1.0                             | 0.54J   | 29           | 16      | 4.3         | <1.0  | <0.019  | <10    | 18J    | 0.74J  | <1.0  | <20   | <100   | <20     | <5.0   |       |  |

TABLE 3  
GROUNDWATER LABORATORY DATA  
HOT SPOT #3005  
CHESNEE, SC  
SCDHEC UST PERMIT #12719  
TERRY PROJECT #2230.8K

| Well        | Date       | Benzene                   | Toluene | Ethylbenzene | Xylenes | Naphthalene | MTBE  | 1,2 DCA | EDB    | TAME  | TBA   | DIPE  | ETBE  | ETBA | Ethanol | TAA   | TBF  |  |
|-------------|------------|---------------------------|---------|--------------|---------|-------------|-------|---------|--------|-------|-------|-------|-------|------|---------|-------|------|--|
|             | Units      | ug/L                      | ug/L    | ug/L         | ug/L    | ug/L        | ug/L  | ug/L    | ug/L   | ug/L  | ug/L  | ug/L  | ug/L  | ug/L | ug/L    | ug/L  | ug/L |  |
| 12719-MW7   | 8/18/2005  | <1.0                      | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT   |  |
|             | 10/2/2008  | <1.00                     | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT   |  |
|             | 10/31/2011 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |      |  |
|             | 12/30/2014 | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0 |  |
|             | 7/25/2017  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0 |  |
|             | 5/29/2018  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0 |  |
|             | 9/10/2019  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0 |  |
| 12719-MW8   | 8/18/2005  | <1.0                      | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT   |  |
|             | 10/2/2008  | Well could not be located |         |              |         |             |       |         |        |       |       |       |       |      |         |       |      |  |
|             | 10/31/2011 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |      |  |
|             | 12/30/2014 | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0 |  |
|             | 7/25/2017  | Could Not Find            |         |              |         |             |       |         |        |       |       |       |       |      |         |       |      |  |
| 12719-MW8R  | 5/29/2018  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | NT      | <10    | <20   | <1.0  | <1.0  | <20   | <100 | <20     | <5.0  |      |  |
|             | 9/10/2019  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <0.019  | <10    | <20   | <1.0  | <1.0  | <20   | <100 | <20     | <5.0  |      |  |
|             | 8/18/2005  | <1.0                      | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT    | NT    | NT    | NT   | NT      | NT    |      |  |
|             | 10/2/2008  | <1.00                     | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT    | NT    | NT    | NT    | NT   | NT      | NT    |      |  |
| 12719-MW9   | 10/31/2011 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |      |  |
|             | 12/30/2014 | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0 |  |
|             | 7/25/2017  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0 |  |
|             | 5/29/2018  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0 |  |
|             | 9/10/2019  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0 |  |
|             | 8/18/2005  | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |      |  |
| 12719-MW10  | 10/2/2008  | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |      |  |
|             | 10/31/2011 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |      |  |
|             | 12/30/2014 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |      |  |
|             | 5/29/2018  | <1.0                      | <1.0    | <1.0         | <1.0    | 2.0         | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0 |  |
|             | 9/10/2019  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0 |  |
|             | 8/18/2005  | <1.0                      | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT   |  |
| 12719-MW10R | 10/2/2008  | <1.00                     | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT    | NT    | NT    | NT    | NT   | NT      | NT    |      |  |
|             | 10/31/2011 | <1.00                     | <1.00   | <1.00        | <3.00   | 1.88J       | <1.00 | <1.00   | NT     | <5.00 | <10.0 | <5.00 | <5.00 | <100 | <1,000  | <20.0 |      |  |
|             | 12/30/2014 | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   |      |  |
|             | 7/24/2017  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   |      |  |
|             | 5/29/2018  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   |      |  |
|             | 9/10/2019  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   |      |  |
|             | 8/18/2005  | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |      |  |
| 12719-MW11  | 10/2/2008  | <1.00                     | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT    | NT    | NT    | NT    | NT   | NT      | NT    |      |  |
|             | 10/31/2011 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |      |  |
|             | 12/30/2014 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |      |  |
|             | 5/29/2018  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   |      |  |
| 12719-MW11R | 9/10/2019  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   |      |  |
|             | 8/18/2005  | <1.0                      | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT    | NT    | NT    | NT   | NT      | NT    |      |  |
|             | 10/2/2008  | Well could not be located |         |              |         |             |       |         |        |       |       |       |       |      |         |       |      |  |
|             | 10/31/2011 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |      |  |
|             | 12/30/2014 | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   |      |  |
| 12719-MW11R | 7/24/2017  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   |      |  |
|             | 5/29/2018  | Obstructed                |         |              |         |             |       |         |        |       |       |       |       |      |         |       |      |  |
|             | 9/10/2019  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   |      |  |

TABLE 3  
GROUNDWATER LABORATORY DATA  
HOT SPOT #3005  
CHESNEE, SC  
SCDHEC UST PERMIT #12719  
TERRY PROJECT #2230.8K

| Well             | Date       | Benzene     | Toluene | Ethylbenzene | Xylenes | Naphthalene | MTBE  | 1,2 DCA | EDB    | TAME  | TBA    | DIPE  | ETBE | ETBA   | Ethanol | TAA   | TBF  |  |
|------------------|------------|-------------|---------|--------------|---------|-------------|-------|---------|--------|-------|--------|-------|------|--------|---------|-------|------|--|
|                  | Units      | ug/L        | ug/L    | ug/L         | ug/L    | ug/L        | ug/L  | ug/L    | ug/L   | ug/L  | ug/L   | ug/L  | ug/L | ug/L   | ug/L    | ug/L  | ug/L |  |
| 12719-MW12       | 8/18/2005  | <1.0        | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT     | NT    | NT   | NT     | NT      | NT    | NT   |  |
|                  | 10/2/2008  | <1.00       | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT    | NT     | NT    | NT   | NT     | NT      | NT    | NT   |  |
|                  | 10/31/2011 | Not sampled |         |              |         |             |       |         |        |       |        |       |      |        |         |       |      |  |
|                  | 12/30/2014 | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 7/24/2017  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
| 12719-MW13       | 5/29/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 9/10/2019  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 8/18/2005  | <1.0        | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT     | NT    | NT   | NT     | NT      | NT    | NT   |  |
|                  | 10/2/2008  | <1.00       | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT    | NT     | NT    | NT   | NT     | NT      | NT    | NT   |  |
|                  | 10/31/2011 | Not sampled |         |              |         |             |       |         |        |       |        |       |      |        |         |       |      |  |
| 12719-MW14       | 12/30/2014 | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 7/24/2017  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 5/29/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 9/10/2019  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 8/18/2005  | <1.0        | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT     | NT    | NT   | NT     | NT      | NT    | NT   |  |
| 12719-MW15       | 10/2/2008  | <1.00       | <1.00   | <1.00        | <3.00   | <5.00       | 1.12  | <1.00   | <0.010 | NT    | NT     | NT    | NT   | NT     | NT      | NT    | NT   |  |
|                  | 10/31/2011 | Not sampled |         |              |         |             |       |         |        |       |        |       |      |        |         |       |      |  |
|                  | 12/30/2014 | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 7/25/2017  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 5/29/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
| 12719-MW16       | 9/11/2019  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 7/25/2017  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 5/29/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 9/10/2019  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 7/25/2017  | 1,000       | 120     | 25           | 580     | 171         | 150   | <20     | <0.020 | 121   | <400   | <20   | <20  | <400   | <2,000  | 1,000 | <100 |  |
| 12719-MW17 (DUP) | 5/29/2018  | 1,700       | 300     | 67           | 930     | 45          | 250   | <20     | NT     | 151   | 1601   | 22    | <20  | <400   | <2,000  | 1,500 | <100 |  |
|                  | 9/11/2019  | 2,500       | 311     | <50          | 1,100   | 61          | 260   | <50     | <0.019 | <500  | <1,000 | <50   | <50  | <1,000 | <5,000  | 2,200 | <250 |  |
|                  | 9/11/2019  | 2,600       | 331     | <50          | 1,100   | 67          | 270   | <50     | <0.019 | <500  | <1,000 | <50   | <50  | <1,000 | <5,000  | 2,100 | <250 |  |
|                  | 7/25/2017  | 1,000       | 120     | 25           | 580     | 171         | 150   | <20     | <0.020 | 121   | <400   | <20   | <20  | <400   | <2,000  | 1,000 | <100 |  |
|                  | 5/30/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
| 12719-MW18       | 9/10/2019  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 5/30/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 9/10/2019  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 5/29/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 9/11/2019  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
| 12719-MW19       | 5/29/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 9/11/2019  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 5/29/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | 1.2   | <1.0    | NT     | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 9/11/2019  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | 1.0   | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 5/29/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | 4.3   | <1.0    | NT     | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
| 12719-MW20       | 9/11/2019  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | 3.4   | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 5/30/2018  | <1.0        | <1.0    | <1.0         | 6.6     | 15          | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 9/11/2019  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 5/30/2018  | <1.0        | <1.0    | <1.0         | 19      | 12          | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 9/11/2019  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
| 12719-MW21       | 5/30/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 9/10/2019  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 5/30/2018  | <1.0        | <1.0    | <1.0         | <1.0    | <1.0        | 15    | <1.0    | NT     | 0.511 | <20    | <1.0  | <1.0 | <20    | <100    | <20   | <5.0 |  |
|                  | 9/11/2019  | <1.0        | <1.0    | <1.0         | 2.4     | <1.0        | 13    | <1.0    | <0.019 | 0.683 | <20    | 0.883 | <1.0 | <20    | 711     | 9.71  | <5.0 |  |

**TABLE 3  
GROUNDWATER LABORATORY DATA  
HOT SPOT #3005  
CHESNEE, SC  
SCDHEC UST PERMIT #12719  
TERRY PROJECT #2230.8K**

| Well            | Date       | Benzene | Toluene | Ethylbenzene | Xylenes | Naphthalene | MTBE  | 1,2-DCA | EDB                    | TAME  | TBA    | DIPE  | ETBE  | ETBA   | Ethanol | TAA   | TBF   |
|-----------------|------------|---------|---------|--------------|---------|-------------|-------|---------|------------------------|-------|--------|-------|-------|--------|---------|-------|-------|
|                 | Units      | ug/L    | ug/L    | ug/L         | ug/L    | ug/L        | ug/L  | ug/L    | ug/L                   | ug/L  | ug/L   | ug/L  | ug/L  | ug/L   | ug/L    | ug/L  | ug/L  |
| 12719-RW1       | 5/30/2018  | 67      | 14      | 81           | 320     | 140         | <1.0  | <1.0    | NT                     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | 12J   | <5.0  |
|                 | 9/11/2019  |         |         |              |         |             |       |         | Free Product (0.20 ft) |       |        |       |       |        |         |       |       |
| 12719-RW2       | 5/30/2018  | 21      | 0.58J   | 35           | 140     | 82          | <1.0  | <1.0    | NT                     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 9/11/2019  | 7.3     | 0.41J   | 3.4          | 56      | 32          | <1.0  | <1.0    | <0.019                 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-RW3       | 5/30/2018  | 1,800   | <50     | 120          | 360     | 29J         | 280   | <50     | NT                     | <500  | <1,000 | 49J   | <50   | <1,000 | <5,000  | 1,400 | <250  |
|                 | 9/11/2019  | 2,400   | 42J     | 60           | 1,300   | 34J         | 61    | <50     | <0.019                 | <500  | 460J   | 160   | <50   | <1,000 | <5,000  | 2,900 | <250  |
| 12719-RW3 (DUP) | 9/11/2019  | 2,600   | 37J     | 61           | 1,300   | 36J         | 81    | <50     | <0.019                 | <500  | 450J   | 160   | <50   | <1,000 | <5,000  | 2,800 | <250  |
| 12719-MW1D      | 8/18/2005  | <1.0    | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT                     | NT    | NT     | NT    | NT    | NT     | NT      | NT    | NT    |
|                 | 10/2/2008  | <1.00   | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010                 | NT    | NT     | NT    | NT    | NT     | NT      | NT    | NT    |
|                 | 10/31/2011 | <1.00   | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | NT                     | <5.00 | <10.0  | <5.00 | <5.00 | <100   | <1,000  | <20.0 | <5.00 |
|                 | 12/30/2014 | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT                     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 7/25/2017  | 0.43J   | <1.0    | <1.0         | 0.68J   | 0.42J       | <1.0  | <1.0    | <0.020                 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 5/30/2018  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT                     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 9/11/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020                 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-DW2       | 5/30/2018  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT                     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 9/11/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | 0.68J | <1.0    | <0.019                 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-DW3       | 5/30/2018  | <1.0    | 0.81J   | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT                     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 9/10/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019                 | <10   | 33     | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-SW1       | 5/30/2018  | <1.0    | <1.0    | <1.0         | <1.0    | 2.0         | 1.4   | <1.0    | NT                     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 9/11/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019                 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-FB1       | 9/10/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019                 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-FB2       | 9/11/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019                 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-TB        | 9/10/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT                     | <10   | 15J    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-TB        | 9/10/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT                     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-TB        | 9/10/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT                     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |

**NOTES:**

RBSL = Risk-Based Screening Level

BoM lettering indicates parameter exceeds SCDHEC RBSL's except 1,2-DCA which is based on EPA limit

ug/L = micrograms per liter

NT = Parameter was not tested during this event

J - Indicates an estimated value

(DUP) = Duplicate

FB = Field Blank

TB = Trip Blank

MTBE = Methyl tertiary butyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

TAME = tert-Amyl methyl ether

TBA = tert-Butyl Alcohol or t-Butanol

DIPE = Isopropyl ether or diisopropyl ether

ETBE = Ethyl tert-butyl ether

ETBA = 3,3-Dimethyl-1-butanol or ethyl tert-butanol

TAA = tert-amyl alcohol

TBF = tert-butyl formate

TABLE 3A  
GROUNDWATER LABORATORY DATA - PAHs  
HOT SPOT #3005  
CHESNEE, SC  
SCDHEC UST PERMIT #12719  
TERRY PROJECT #2230.8K

| Well             | Date      | Acenaphthene | Benzo(a)anthracene | Benzo(b)fluoranthene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluorene | Phenanthrene | Pyrene |
|------------------|-----------|--------------|--------------------|----------------------|----------------------|----------|-----------------------|----------|--------------|--------|
|                  | Units     | ug/L         | ug/L               | ug/L                 | ug/L                 | ug/L     | ug/L                  | ug/L     | ug/L         | ug/L   |
|                  | RBSL      | N/A          | 10                 | 10                   | 10                   | 10       | 10                    | N/A      | N/A          | N/A    |
| 12719-MW1        | 5/30/2018 |              |                    |                      |                      |          |                       |          |              |        |
| 12719-MW1R       | 9/11/2019 | 0.63J        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | 1.8      | 2.0          | 0.71J  |
| 12719-MW2        | 5/30/2018 |              |                    |                      |                      |          |                       |          |              |        |
| 12719-MW2R       | 9/11/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW3        | 5/30/2018 |              |                    |                      |                      |          |                       |          |              |        |
| 12719-MW3R       | 9/11/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW4        | 9/10/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW5        | 9/10/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW6        | 9/10/2019 | 0.81         | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | 2.6      | 2.7          | 0.31J  |
| 12719-MW7        | 9/10/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW8R       | 9/10/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW9        | 9/10/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW10       | 9/10/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW10R      | 9/10/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW11       | 9/10/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW11R      | 9/10/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW12       | 9/10/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW13       | 9/10/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW14       | 9/11/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW15       | 9/10/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW16       | 9/11/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW16 (DUP) | 9/11/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW17       | 9/10/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW18       | 9/10/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW19       | 9/11/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW20       | 9/11/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW21       | 9/11/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW22       | 9/11/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW23       | 9/11/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW24       | 9/10/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW25       | 9/11/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-RW1        | 9/11/2019 |              |                    |                      |                      |          |                       |          |              |        |
| 12719-RW2        | 9/11/2019 | 1.3          | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | 4.2      | 4.6          | 0.45J  |
| 12719-RW3        | 9/11/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-RW3 (DUP)  | 9/11/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-MW1D       | 9/11/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-DW2        | 9/11/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-DW3        | 9/10/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |
| 12719-SW1        | 9/11/2019 | -0.80        | -0.80              | -0.80                | -0.80                | -0.80    | -0.80                 | -0.80    | -0.80        | -0.80  |

NOTES:

RBSL = Risk-Based Screening Level

Bold lettering indicates parameter exceeds SCDHEC RBSL's except 1,2-DCA which is based on EPA limit

ug/L = micrograms per liter

J - Indicates an estimated value

(DUP) = Duplicate

## **J. FIGURES**

### **1. Topographic Map**

Figure 1 Topographic Map - Attached

### **2. Site Base Map**

Figure 2 Site Base Map - Attached

### **3. CoC Site Maps**

Figure 3 Soil CoC Map - Not Applicable

Figure 4A Groundwater CoC Map - Attached

Figure 4B Groundwater CoC Map (Oxygenates) - Attached

Figure 4C Groundwater CoC Map (PAHs) - Attached

### **4. Site Potentiometric Maps**

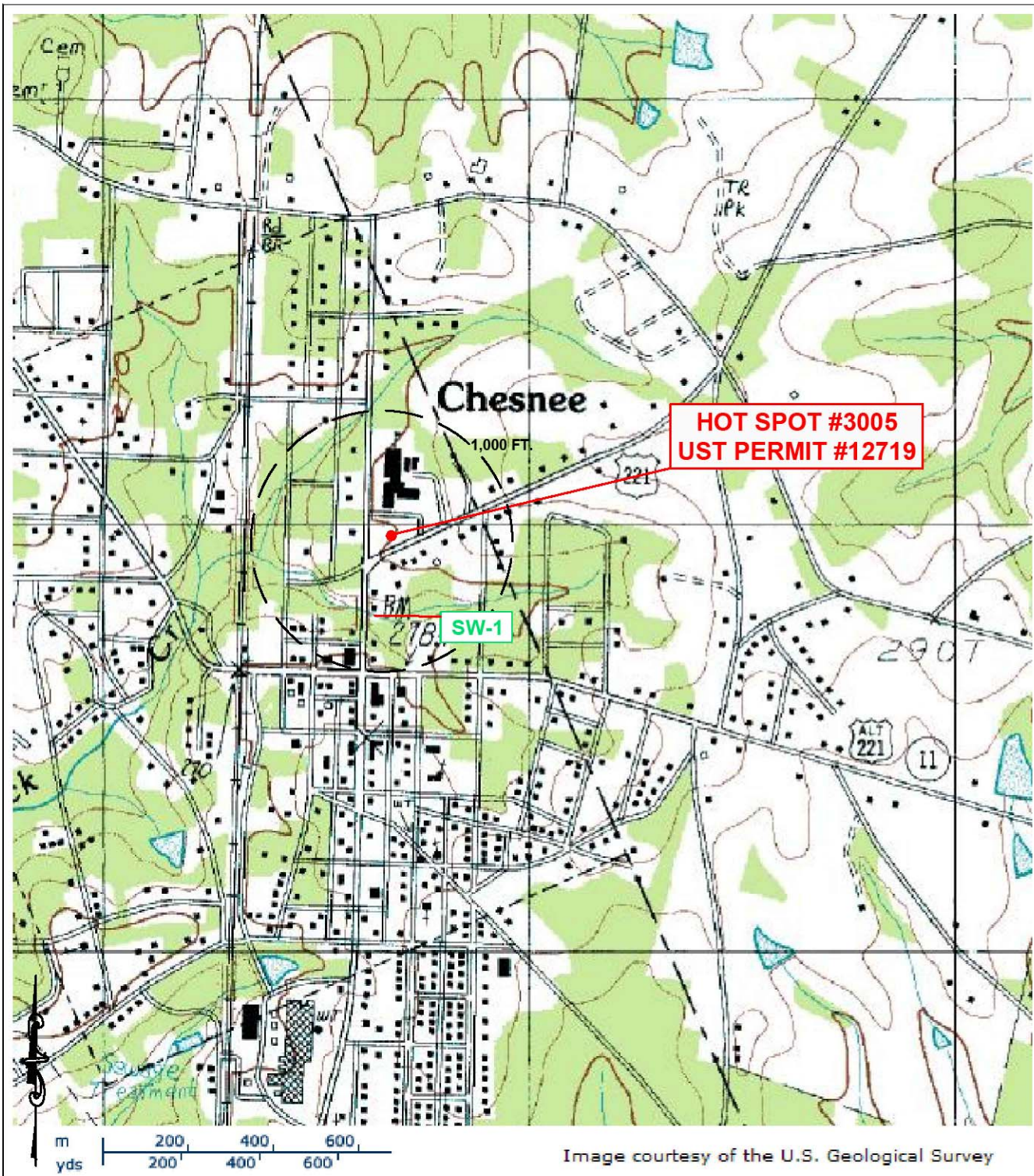
Figure 5 Site Potentiometric Map - Attached

### **5. Geologic Cross Sections**

Figure 6 Geologic Cross Sections - Not Applicable

### **6. Predicted Migration and Attenuation of CoCs**

Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable



## FIGURE 1 TOPOGRAPHIC MAP

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA



... providing our clients with the best services available,  
actually understanding our clients objectives,  
and making their objectives our own!

PO Box 25  
Summerville, South Carolina 29484  
(800) 325-0605 (843)-873-8200 fax: (843)-873-8765

SIZE  
B

TERRY Project No.  
2230.8K

DWG NO.

Figure 1 Topographic Map

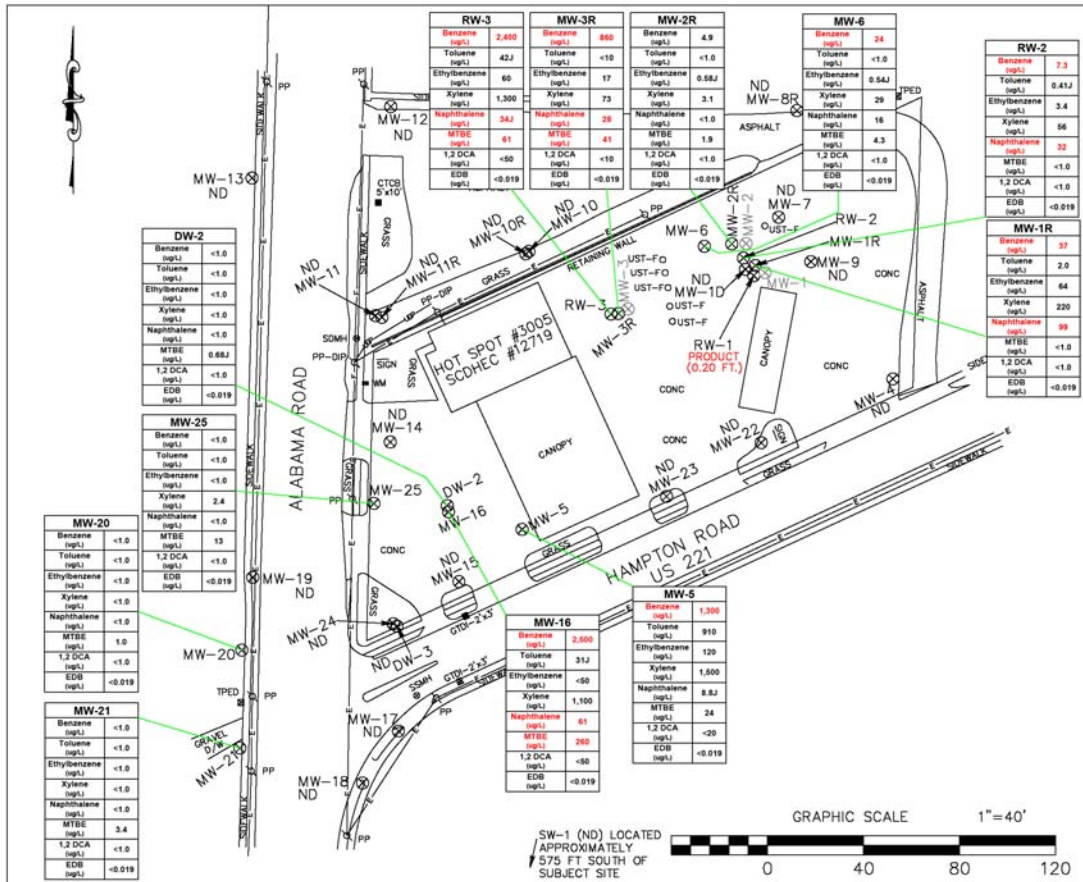
REV

SCALE: As Shown

DATE: October 2019








**LEGEND & ABBREVIATIONS:**

- ⊗ MW = MONITORING WELL
- ⊗ ABANDONED MONITORING WELL
- ⊗ TPED = TELEPHONE PEDESTAL
- ⊗ SDMH = STORM DRAIN SEWER MAN HOLE
- ⊗ SSMH = SANITARY SEWER MAN HOLE
- ⊗ WM = WATER METER
- ⊗ PP = POWER POLE
- ⊗ LP = LIGHT POLE
- ⊗ GM = GAS METER
- ⊗ GV = GAS VALVE
- ⊗ USTF = UNDERGROUND STORAGE TANK FILL
- ⊗ GTCB = GRATE TOP CATCH BASIN
- ⊗ SIGN = SIGN
- ⊗ KD = KEROSENE DISPENSER
- ⊗ E = OVERHEAD POWER LINE
- ⊗ ULP = UNDERGROUND POWER LINE
- ⊗ MTBE = METHYL TERTIARY BUTYL ETHER
- ⊗ 1,2 DCA = 1,2-DICHLOROETHANE
- ⊗ J = ESTIMATED VALUE
- ⊗ NS = NOT SAMPLED

RED INDICATES CONTAMINANTS EXCEED RBSLs  
 ND = LABORATORY ANALYSIS INDICATES ALL CoC AT OR BELOW DETECTION LIMITS

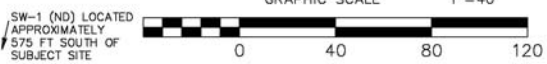
MONITORING WELL SAMPLES COLLECTED SEPTEMBER 10 & 11, 2019

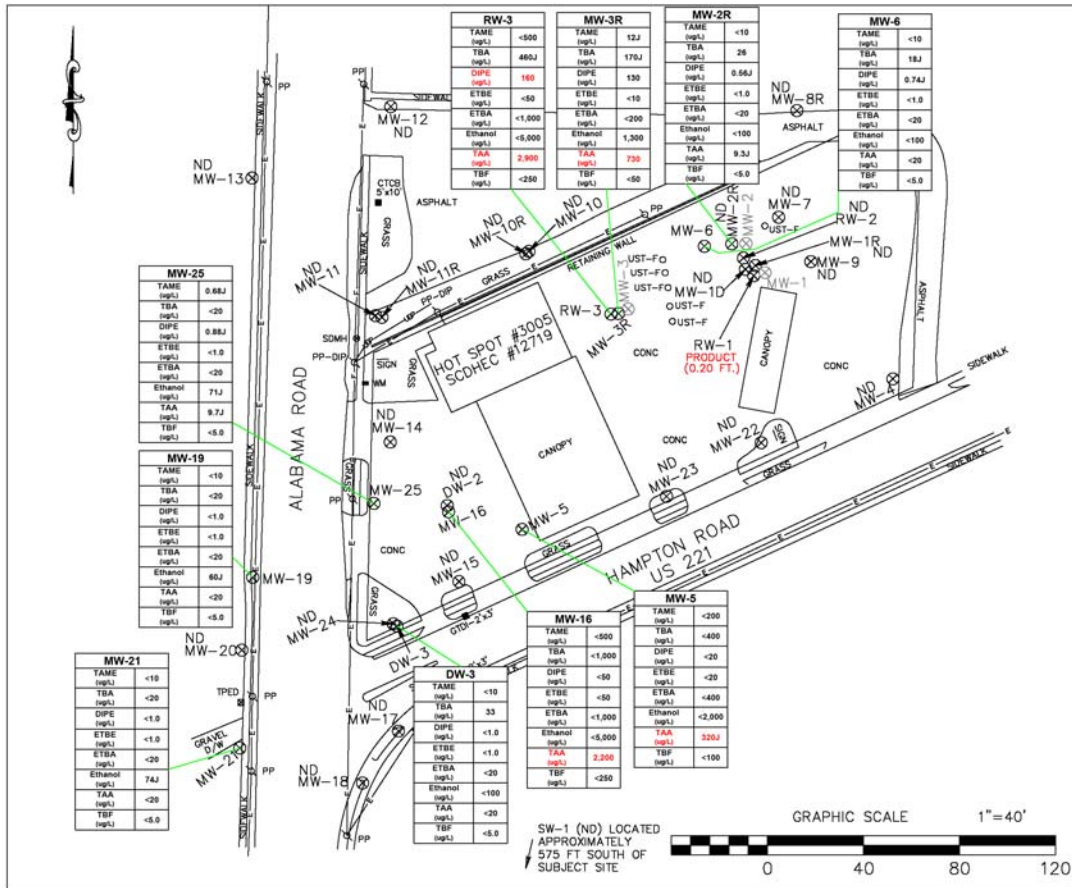
ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (i.e. 12719-MW 1)



**FIGURE 4A**  
**GROUNDWATER COC MAP**  
 HOT SPOT #3005  
 107 HAMPTON STREET  
 CHESNEE, SOUTH CAROLINA

|                 |                   |
|-----------------|-------------------|
| TERRY PROJECT # | SCONEC SITE ID #  |
| 2230.8K         | 12719             |
| SCALE 1" = 40'  | DATE October 2019 |

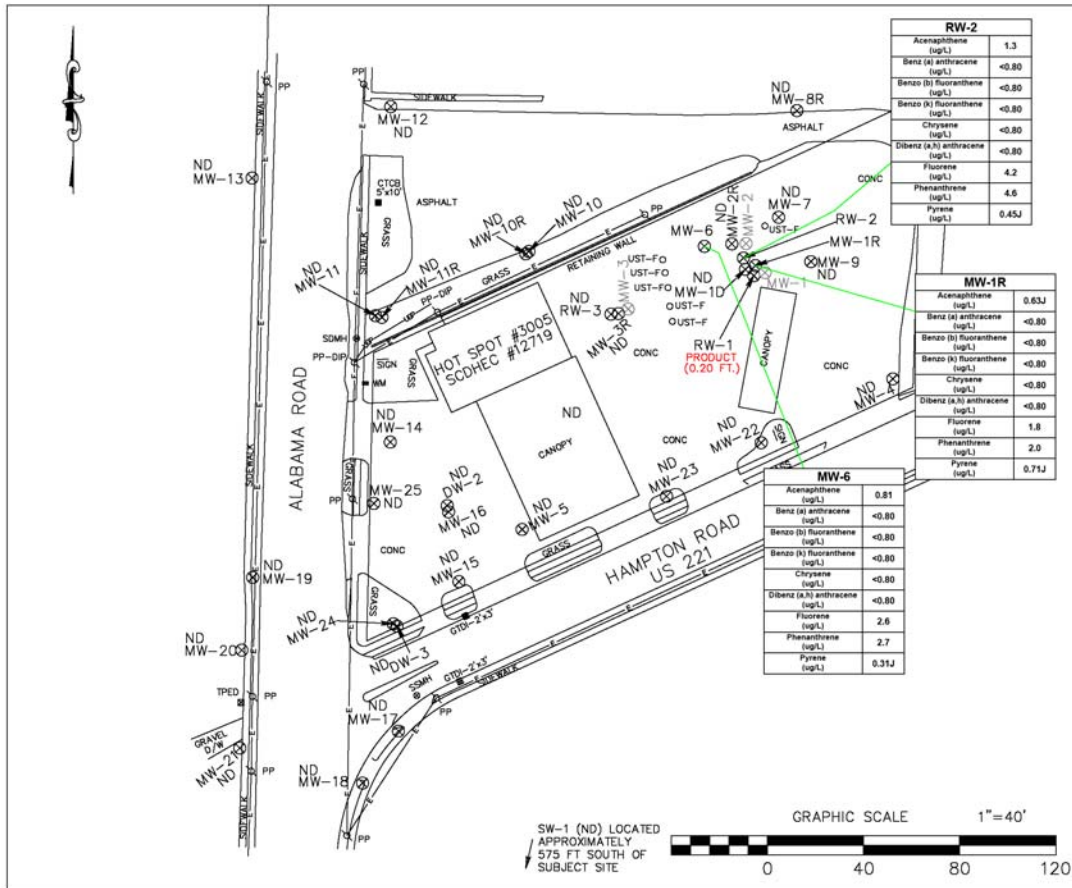




**FIGURE 4B**  
**GROUNDWATER COC MAP (OXYGENATES)**  
 HOT SPOT #3005  
 107 HAMPTON STREET  
 CHESNEE, SOUTH CAROLINA

|                 |                   |
|-----------------|-------------------|
| TERRY PROJECT # | SCDHEC SITE ID #  |
| 2230.8K         | 12719             |
| SCALE 1" = 40'  | DATE October 2019 |






**LEGEND & ABBREVIATIONS:**

- ⊗ MW = MONITORING WELL
- ⊗ ABANDONED MONITORING WELL
- ⊗ TPED = TELEPHONE PEDESTAL
- ⊗ SDMH = STORM DRAIN MAN HOLE
- ⊗ SSMH = SANITARY SEWER MAN HOLE
- ⊗ WM = WATER METER
- ⊗ PP = POWER POLE
- ⊗ LP = LIGHT POLE
- ⊗ GM = GAS METER
- ⊗ GV = GAS VALVE
- USTF = UNDERGROUND STORAGE TANK FILL
- GTCB = GRATE TOP CATCH BASIN
- SIGN = SIGN
- KD = KEROSENE DISPENSER
- E — = OVERHEAD POWER LINE
- UEP — = UNDERGROUND POWER LINE

PAHs = POLYNUCLEAR AROMATIC HYDROCARBONS  
 J = ESTIMATED VALUE  
 NS = NOT SAMPLED  
 RED INDICATES CONTAMINANTS EXCEED RBLS  
 ND = LABORATORY ANALYSIS INDICATES ALL COC AT OR BELOW DETECTION LIMITS

MONITORING WELL SAMPLES COLLECTED SEPTEMBER 10 & 11, 2019

ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (ie. 12719-MW 1)



**FIGURE 4C**  
**GROUNDWATER COC MAP (OXYGENATES)**

HOT SPOT #3005  
 107 HAMPTON STREET  
 CHESNEE, SOUTH CAROLINA

|                 |                   |
|-----------------|-------------------|
| TERRY PROJECT # | SCDHEC SITE ID #  |
| 2230.8K         | 12719             |
| SCALE 1" = 40'  | DATE October 2019 |

SW-1 (ND) LOCATED APPROXIMATELY 575 FT SOUTH OF SUBJECT SITE

GRAPHIC SCALE 1" = 40'

0 40 80 120



**K. APPENDICES**

**1. Appendix A: Site Survey**

Not Applicable

**2. Appendix B: Sampling Logs and Laboratory Data**

**3. Appendix C: Tax Map**

Not Applicable

**4. Appendix D: Soil Boring/Field Screening Logs**

Not Applicable

**5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms**

Not Applicable

**6. Appendix F: Aquifer Evaluation Forms**

Not Applicable

**7. Appendix G: Disposal Manifests**

**8. Appendix H: Local Zoning Regulations**

Not Applicable

**9. Appendix I: Fate and Transport Modeling Data**

Not Applicable

**10. Appendix J: Access Agreements**

Not Applicable

**11. Appendix K: Data Verification Checklist**

**APPENDIX A**

**Site Survey  
(Not Applicable)**

## **APPENDIX B**

### **Sampling Logs and Laboratory Data**



**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |                                     |       |                          | Monitoring Well Information          |   |   |   |
|--------------------------------|-------------------------------------|-------|--------------------------|--------------------------------------|---|---|---|
| Terry Project ID               | 2230.8K                             |       |                          | Well ID                              | 12719 - MW-1R   |   |   |
| SCDHEC Permit No.              | 12719                               |       |                          | Testing Parameters                   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |   |   |
| Project Name                   | Hot Spot #3005                      |       |                          |                                      |   |   |   |
| Date                           | 9/11/2019                           |       |                          |                                      |   |   |   |
| Field Personnel                | LJ CM                               |       |                          | Well Diameter                        | 2   | in  | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH.<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| General Weather                | clear                               |       |                          | Screened Interval                    | unknown   | ft  |   |
| Ambient Air Temperature        | 80                                  |       |                          | Total Well Depth (nearest 0.1')      | 36.1  | ft  |   |
| Quality Assurance              |                                     |       |                          | Depth to Groundwater (nearest 0.01') | 22.46   | ft  |   |
| Meter                          | Horiba U-52-2                       | or    | Meter                    | Horiba U-52-2                        | Length of Water Column                                      | 13.64   |   |
| Serial Number                  | VPTPGA3X                            |       | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                                     | 2.22  | ft  |
| Calibration Constant           | 4.00 su                             |       | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                                    | 6.67  | gals  |
| Calibration Constant           | 4.49 mS/cm                          |       | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged   | 11.25   | gals  |
| Calibration Constant           | 0.0 NTU                             |       | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)                     |   |   |
| Last Calibration (time)        | 0900                                |       | Last Verification (time) | 1200                                 | Well Yield  | Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High <input type="checkbox"/> | 36.1  |
| Volume (gal)                   | initial                             | 2.25  | 4.5                      | 6.75                                 | 9   | 11.25   |   |
| Time (military)                | 1120                                | 1127  | 1140                     | 1151                                 | 1158  | 1212  |   |
| pH (su)                        | 5.37                                | 5.36  | 5.48                     | 5.32                                 | 5.33  | 5.30  |   |
| Spec Conductivity (mS/cm)      | 0.069                               | 0.133 | 0.140                    | 0.126                                | 0.137   | 0.135   |   |
| Water Temperature (°C)         | 22.3                                | 22.05 | 22.1                     | 22.89                                | 23.0  | 23.1  |   |
| Turbidity (NTU)                | 0.0                                 | 19.6  | 30.5                     | 17.7                                 | 16.0  | 6.7   |   |
| Dissolved Oxygen (mg/L)        | 3.05                                | 1.62  | 1.77                     | 1.72                                 | 3.80  | 3.39  |   |
| Well Condition Information     |                                     |       |                          | Additional Comments                  |   |   |   |
| -overall condition acceptable? | <input checked="" type="checkbox"/> |       |                          | moderate shear, moderate petrol odor |   |   |   |
| -well cap acceptable?          | <input type="checkbox"/>            |       |                          |                                      |   |   |   |
| -manhole and cover acceptable? | no bolts                            |       |                          |                                      |   |   |   |
| -well pad acceptable?          | <input type="checkbox"/>            |       |                          |                                      |   |   |   |
| -area safe?                    | <input type="checkbox"/>            |       |                          |                                      |   |   |   |
| -other comments                |                                     |       |                          |                                      |   |   |   |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |      |  |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|------|--|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                              |   | 12719 - MW-2R   |      |  |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |      |  |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |      |  |
| Date                           |               | 9/11/2019      |                          |                                      |   |   |      |  |
| Field Personnel                |               | LJCM           |                          | Well Diameter                        |   | 2   | in   |  |
| General Weather                |               | clear          |                          | Screened Interval                    |   | 20-30   | ft   |  |
| Ambient Air Temperature        |               | 50             |                          | Total Well Depth (nearest 0.1')      |   | 30.2  | ft   |  |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 22.43   | ft   |  |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |   | 7.77 | ft   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   |      | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   |      | gals   |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   |      | gals   |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |      |  |
| Last Calibration (time)        | 0800          |                | Last Verification (time) |                                      | Well Yield                              |   |      | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |
| Volume (gal)                   | Initial       |                |                          |                                      |   |   |      |  |
| Time (military)                | 1109          |                |                          |                                      |   |   |      |  |
| pH (su)                        | 5.31          |                |                          |                                      |   |   |      |  |
| Spec Conductivity (mS/cm)      | 0.189         |                |                          |                                      |   |   |      |  |
| Water Temperature (°C)         | 21.8          |                |                          |                                      |   |   |      |  |
| Turbidity (NTU)                | 0.0           |                |                          |                                      |   |   |      |  |
| Dissolved Oxygen (mg/L)        | 2.20          |                |                          |                                      |   |   |      |  |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |      |  |
| -overall condition acceptable? |               |                |                          |                                      |   |   |      |  |
| -well cap acceptable?          |               |                |                          |                                      |   |   |      |  |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |      |  |
| -well pad acceptable?          |               |                |                          |                                      |   |   |      |  |
| -area safe?                    |               |                |                          |                                      |   |   |      |  |
| -other comments                |               |                |                          |                                      |   |   |      |  |

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

30.2

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |                |                  |                          | Monitoring Well Information          |   |   |             |                          |
|--------------------------------|----------------|------------------|--------------------------|--------------------------------------|---|---|-------------|--------------------------|
| Terry Project ID               |                | 2230.8K          |                          | Well ID                              |   | 12719 - <i>MW-3R</i>  |             |                          |
| SCDHEC Permit No.              |                | 12719            |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |             |                          |
| Project Name                   |                | Hot Spot #3005   |                          |                                      |   |   |             |                          |
| Date                           |                | <i>9/11/2019</i> |                          |                                      |   |   |             |                          |
| Field Personnel                |                | <i>LJCM</i>      |                          | Well Diameter                        |   | <i>2</i>  | in          |                          |
| General Weather                |                | <i>clear</i>     |                          | Screened Interval                    |   | <i>26-36</i>  | ft          |                          |
| Ambient Air Temperature        |                | <i>85</i>        |                          | Total Well Depth (nearest 0.1')      |   | <i>36.1</i>   | ft          |                          |
| Quality Assurance              |                |                  |                          | Depth to Groundwater (nearest 0.01') |   | <i>26.12</i>  | ft          |                          |
| Meter                          | Horiba U-52-2  | or               | Meter                    | Horiba U-52-2                        | Length of Water Column                  |   | <i>9.98</i> | ft                       |
| Serial Number                  | VPTPGA3X       |                  | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   |             | ft                       |
| Calibration Constant           | 4.00 su        |                  | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   |             | gals                     |
| Calibration Constant           | 4.49 mS/cm     |                  | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   |             | gals                     |
| Calibration Constant           | 0.0 NTU        |                  | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |             |                          |
| Last Calibration (time)        | <i>0800</i>    |                  | Last Verification (time) | <i>1200</i>                          | Well Yield                              |   |             | <i>36.1</i>              |
|                                |                |                  |                          |                                      | Low                                     | <input type="checkbox"/>                                    | Medium      | <input type="checkbox"/> |
|                                |                |                  |                          |                                      | High                                    | <input type="checkbox"/>                                    |             |                          |
| Volume (gal)                   | <i>initial</i> |                  |                          |                                      |   |   |             |                          |
| Time (military)                | <i>1300</i>    |                  |                          |                                      |   |   |             |                          |
| pH (su)                        | <i>5.84</i>    |                  |                          |                                      |   |   |             |                          |
| Spec Conductivity (mS/cm)      | <i>0.117</i>   |                  |                          |                                      |   |   |             |                          |
| Water Temperature (°C)         | <i>28.0</i>    |                  |                          |                                      |   |   |             |                          |
| Turbidity (NTU)                | <i>4.8</i>     |                  |                          |                                      |   |   |             |                          |
| Dissolved Oxygen (mg/L)        | <i>3.95</i>    |                  |                          |                                      |   |   |             |                          |
| Well Condition Information     |                |                  |                          | Additional Comments                  |   |   |             |                          |
| -overall condition acceptable? |                |                  |                          |                                      |   |   |             |                          |
| -well cap acceptable?          |                |                  |                          | <i>replaced cap</i>                  |   |   |             |                          |
| -manhole and cover acceptable? |                |                  |                          |                                      |   |   |             |                          |
| -well pad acceptable?          |                |                  |                          |                                      |   |   |             |                          |
| -area safe?                    |                |                  |                          |                                      |   |   |             |                          |
| -other comments                |                |                  |                          |                                      |   |   |             |                          |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |  |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|--|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                              |   | 12719 - MW-4  |  |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |  |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |  |
| Date                           |               | 9/10/2019      |                          |                                      |   |   |  |
| Field Personnel                |               | LJCM           |                          | Well Diameter                        |   | 2   | in   |
| General Weather                |               | clear          |                          | Screened Interval                    |   | 36-46   | ft   |
| Ambient Air Temperature        |               | 90             |                          | Total Well Depth (nearest 0.1')      |   | 45.7  | ft   |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 21.46   | ft   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  | 24.24   | ft   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 | 3.95  | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                | 11.85   | gals                                       |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     | 20  | gals                                       |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |  |
| Last Calibration (time)        | 1130          |                | Last Verification (time) |                                      | Well Yield                              | Low <input type="checkbox"/>                                | Medium <input checked="" type="checkbox"/> |
|                                |               |                |                          |                                      |   | High <input type="checkbox"/>                               | 45.7                                       |
| Volume (gal)                   | initial       | 4.00           | 8.00                     | 12.00                                | 16                                      | 20  |  |
| Time (military)                | 1430          | 1433           | 1436                     | 1440                                 | 1443                                    | 1446  |  |
| pH (su)                        | 3.88          | 6.16           | 6.28                     | 6.32                                 | 6.37                                    | 6.43  |  |
| Spec Conductivity (mS/cm)      | 0.155         | 0.158          | 0.159                    | 0.159                                | 0.157                                   | 0.158   |  |
| Water Temperature (°C)         | 24.0          | 22.1           | 21.2                     | 21.7                                 | 22.3                                    | 21.5  |  |
| Turbidity (NTU)                | 115           | 131            | 0.0                      | 0.0                                  | 0.0                                     | 0.0   |  |
| Dissolved Oxygen (mg/L)        | 3.70          | 2.07           | 3.11                     | 3.30                                 | 4.92                                    | 4.95  |  |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |  |
| -overall condition acceptable? |               |                |                          |                                      |   |   |  |
| -well cap acceptable?          |               |                |                          |                                      |   |   |  |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |  |
| -well pad acceptable?          |               |                |                          |                                      |   |   |  |
| -area safe?                    |               |                |                          |                                      |   |   |  |
| -other comments                |               |                |                          |                                      |   |   |  |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |        |                          |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|--------|--------------------------|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                              |   | 12719 - MW-5  |        |                          |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |        |                          |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |        |                          |
| Date                           |               | 9/10/2019      |                          |                                      |   |   |        |                          |
| Field Personnel                |               | LJ CM          |                          | Well Diameter                        |   | 2   | in     |                          |
| General Weather                |               | clear          |                          | Screened Interval                    |   | 22-32   | ft     |                          |
| Ambient Air Temperature        |               | 85             |                          | Total Well Depth (nearest 0.1')      |   | 32.2  | ft     |                          |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 27.70   | ft     |                          |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |   | 4.5    | ft                       |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   |        | ft                       |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   |        | gals                     |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   |        | gals                     |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |        |                          |
| Last Calibration (time)        | 1130          |                | Last Verification (time) | 1530                                 | Well Yield                              |   |        | 32.2                     |
|                                |               |                |                          |                                      | Low                                     | <input type="checkbox"/>                                    | Medium | <input type="checkbox"/> |
|                                |               |                |                          |                                      | High                                    | <input type="checkbox"/>                                    |        |                          |
| Volume (gal)                   | initial       |                |                          |                                      |   |   |        |                          |
| Time (military)                | 1829          |                |                          |                                      |   |   |        |                          |
| pH (su)                        | 4.87          |                |                          |                                      |   |   |        |                          |
| Spec Conductivity (mS/cm)      | 0.075         |                |                          |                                      |   |   |        |                          |
| Water Temperature (°C)         | 21.70         |                |                          |                                      |   |   |        |                          |
| Turbidity (NTU)                | 356           |                |                          |                                      |   |   |        |                          |
| Dissolved Oxygen (mg/L)        | 7.39          |                |                          |                                      |   |   |        |                          |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |        |                          |
| -overall condition acceptable? |               |                |                          |                                      |   |   |        |                          |
| -well cap acceptable?          |               |                |                          |                                      |   |   |        |                          |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |        |                          |
| -well pad acceptable?          |               |                |                          |                                      |   |   |        |                          |
| -area safe?                    |               |                |                          |                                      |   |   |        |                          |
| -other comments                |               |                |                          |                                      |   |   |        |                          |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |                                     |       |                          | Monitoring Well Information          |   |   |   |
|--------------------------------|-------------------------------------|-------|--------------------------|--------------------------------------|---|---|---|
| Terry Project ID               | 2230.8K                             |       |                          | Well ID                              | 12719-MW-6  |   |   |
| SCDHEC Permit No.              | 12719                               |       |                          | Testing Parameters                   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |   |   |
| Project Name                   | Hot Spot #3005                      |       |                          |                                      |   |   |   |
| Date                           | 9/16/2019                           |       |                          |                                      |   |   |   |
| Field Personnel                | CJ LJ                               |       |                          | Well Diameter                        | 2   | in  | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| General Weather                | Raining                             |       |                          | Screened Interval                    | 26.36   | ft  |   |
| Ambient Air Temperature        | 90°F                                |       |                          | Total Well Depth (nearest 0.1')      | 36.1  | ft  |   |
| Quality Assurance              |                                     |       |                          | Depth to Groundwater (nearest 0.01') | 22.83   | ft  |   |
| Meter                          | Horiba U-52-2                       | or    | Meter                    | Horiba U-52-2                        | Length of Water Column                                      | 13.27   |   |
| Serial Number                  | VPTPGA3X                            |       | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                                     | 2.16  | ft  |
| Calibration Constant           | 4.00 su                             |       | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                                    | 6.49  | gals  |
| Calibration Constant           | 4.49 mS/cm                          |       | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged   | 11.25   | gals  |
| Calibration Constant           | 0.0 NTU                             |       | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)                     |   |   |
| Last Calibration (time)        | 1130                                |       | Last Verification (time) | 1530                                 | Well Yield  | Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High <input type="checkbox"/> | 36.1  |
| Volume (gal)                   | 2.25                                | 4.50  | 6.75                     | 9                                    | 11.25   |   |   |
| Time (military)                | 1656                                | 1700  | 1706                     | 1731                                 | 1735  | 1739  |   |
| pH (su)                        | 5.63                                | 4.86  | 4.89                     | 4.63                                 | 4.48  | 4.48  |   |
| Spec Conductivity (mS/cm)      | 0.040                               | 0.277 | 0.255                    | 0.229                                | 0.278   | 0.277   |   |
| Water Temperature (°C)         | 26.1                                | 24.2  | 22.8                     | 22.4                                 | 21.8  | 22.0  |   |
| Turbidity (NTU)                | 6.4                                 | 50.2  | 149                      | 130                                  | 75.0  | 71.5  |   |
| Dissolved Oxygen (mg/L)        | 4.45                                | 3.51  | 3.55                     | 3.80                                 | 3.60  | 2.61  |   |
| Well Condition Information     |                                     |       |                          | Additional Comments                  |   |   |   |
| -overall condition acceptable? | <input checked="" type="checkbox"/> |       |                          |                                      |   |   |   |
| -well cap acceptable?          | <input checked="" type="checkbox"/> |       |                          |                                      |   |   |   |
| -manhole and cover acceptable? | <input checked="" type="checkbox"/> |       |                          |                                      |   |   |   |
| -well pad acceptable?          | <input checked="" type="checkbox"/> |       |                          |                                      |   |   |   |
| -area safe?                    | <input checked="" type="checkbox"/> |       |                          |                                      |   |   |   |
| -other comments                |                                     |       |                          |                                      |   |   |   |

### Groundwater Sampling Log



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |       |                |       |                          | Monitoring Well Information          |               |   |  |   |
|--------------------------------|-------|----------------|-------|--------------------------|--------------------------------------|---------------|---|--|---|
| Terry Project ID               |       | 2230.8K        |       |                          | Well ID                              |               | 12719-MW-7  |  |   |
| SCDHEC Permit No.              |       | 12719          |       |                          | Testing Parameters                   |               | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |  |   |
| Project Name                   |       | Hot Spot #3005 |       |                          |                                      |               |   |  |   |
| Date                           |       | 9/10/2019      |       |                          |                                      |               |   |  |   |
| Field Personnel                |       | CM LJ          |       |                          | Well Diameter                        |               | 2   | in   | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH.<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| General Weather                |       | Rainy          |       |                          | Screened Interval                    |               | 26-36   | ft   |   |
| Ambient Air Temperature        |       | 90°F           |       |                          | Total Well Depth (nearest 0.1')      |               | 36.2  | ft   |   |
| Quality Assurance              |       |                |       |                          | Depth to Groundwater (nearest 0.01') |               | 21.29   | ft   |   |
| Meter                          |       | Horiba U-52-2  |       | Meter                    |                                      | Horiba U-52-2 |   | Length of Water Column   |   |
| Serial Number                  |       | VPTPGA3X       |       | or                       |                                      | Serial Number |   | V3KNWUE9   |   |
| Calibration Constant           |       | 4.00 su        |       | Calibration Constant     |                                      | 4.00 su       |   | 1 Casing Volume (0.163)  |   |
| Calibration Constant           |       | 4.49 mS/cm     |       | Calibration Constant     |                                      | 4.49 mS/cm    |   | 3 Casing Volumes (0.489)   |   |
| Calibration Constant           |       | 0.0 NTU        |       | Calibration Constant     |                                      | 0.0 NTU       |   | Total Volume Purged  |   |
| Last Calibration (time)        |       | 1130           |       | Last Verification (time) |                                      | 1530          |   | Purge Technique Utilized (bailer, pump)  |   |
|                                |       |                |       |                          |                                      |               |   | Well Yield Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input checked="" type="checkbox"/> |   |
| Volume (gal)                   | 1.1K  | 2.5            | 5.0   | 7.5                      | 10.0                                 |               |   |  |   |
| Time (military)                | 1710  | 1729           | 1739  | 1750                     | 1758                                 |               |   |  |   |
| pH (su)                        | 4.81  | 4.50           | 4.22  | 3.98                     | 3.95                                 |               |   |  |   |
| Spec Conductivity (mS/cm)      | 0.038 | 0.045          | 0.057 | 0.049                    | 0.047                                |               |   |  |   |
| Water Temperature (°C)         | 22.6  | 23.0           | 21.4  | 21.3                     | 21.2                                 |               |   |  |   |
| Turbidity (NTU)                | 7.3   | 44.6           | 32.1  | 34.7                     | 33.4                                 |               |   |  |   |
| Dissolved Oxygen (mg/L)        | 1.34  | 4.97           | 5.62  | 5.96                     | 5.42                                 |               |   |  |   |
| Well Condition Information     |       |                |       |                          | Additional Comments                  |               |   |  |   |
| -overall condition acceptable? |       |                |       |                          |                                      |               |   |  |   |
| -well cap acceptable?          |       |                |       |                          |                                      |               |   |  |   |
| -manhole and cover acceptable? |       |                |       |                          | Full of water                        |               |   |  |   |
| -well pad acceptable?          |       |                |       |                          |                                      |               |   |  |   |
| -area safe?                    |       |                |       |                          |                                      |               |   |  |   |
| -other comments                |       |                |       |                          |                                      |               |   |  |   |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |  |   |  |   |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|--|---|--|---|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                              |  | 12719 - MW-8R   |  |   |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |  |   |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |  |   |  |   |
| Date                           |               | 9/10/2019      |                          |                                      |  |   |  |   |
| Field Personnel                |               | LJ CM          |                          | Well Diameter                        |  | 2   | in                                       |   |
| General Weather                |               | clear          |                          | Screened Interval                    |  | 20-30   | ft                                       |   |
| Ambient Air Temperature        |               | 90             |                          | Total Well Depth (nearest 0.1')      |  | 30.7  | ft                                       |   |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |  |   |  |   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                 |   |  | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                |   |  |   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)               |   |  |   |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                    |   |  |   |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (baller pump) |   |  |   |
| Last Calibration (time)        | 1130          |                | Last Verification (time) |                                      | Well Yield                             |   |  |   |
|                                |               |                |                          |                                      | Low                                    | <input type="checkbox"/> Medium                             | <input checked="" type="checkbox"/> High |   |
| Volume (gal)                   | initial       | 2.25           | 4.50                     | 6.75                                 |  |   |  |   |
| Time (military)                | 1359          | 1402           | 1405                     | 1405                                 |  |   |  |   |
| pH (su)                        | 4.47          | 4.39           | 4.24                     | 4.05                                 |  |   |  |   |
| Spec Conductivity (mS/cm)      | 0.021         | 0.026          | 0.027                    | 0.028                                |  |   |  |   |
| Water Temperature (°C)         | 22.2          | 21.2           | 21.0                     | 20.9                                 |  |   |  |   |
| Turbidity (NTU)                | 104           | 499            | 496                      | 498                                  |  |   |  |   |
| Dissolved Oxygen (mg/L)        | 5.35          | 6.03           | 5.67                     | 6.00                                 |  |   |  |   |
| Well Condition Information     |               |                |                          | Additional Comments                  |  |   |  |   |
| -overall condition acceptable? |               |                |                          |                                      |  |   |  |   |
| -well cap acceptable?          |               |                |                          |                                      |  |   |  |   |
| -manhole and cover acceptable? |               |                |                          |                                      |  |   |  |   |
| -well pad acceptable?          |               |                |                          |                                      |  |   |  |   |
| -area safe?                    |               |                |                          |                                      |  |   |  |   |
| -other comments                |               |                |                          |                                      |  |   |  |   |



**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          |               | Monitoring Well Information             |  |   |      |   |
|--------------------------------|---------------|----------------|--------------------------|---------------|---|--|---|------|---|
| Terry Project ID               |               | 2230.8K        |                          |               | Well ID                                 |  | 12719 - MW-9  |      |   |
| SCDHEC Permit No.              |               | 12719          |                          |               | Testing Parameters                      |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB   |      |   |
| Project Name                   |               | Hot Spot #3005 |                          |               |   |  |   |      |   |
| Date                           |               | 9/10/2019      |                          |               |   |  |   |      |   |
| Field Personnel                |               | CM, LS         |                          |               | Well Diameter                           |  | 2   | in   | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| General Weather                |               | den            |                          |               | Screened Interval                       |  | unknown   | ft   |   |
| Ambient Air Temperature        |               | 85             |                          |               | Total Well Depth (nearest 0.1')         |  | 35.2  | ft   |   |
| Quality Assurance              |               |                |                          |               | Depth to Groundwater (nearest 0.01')    |  | 21.13   | ft   |   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2 | Length of Water Column                  |  | 14.07   | ft   |   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)                 |  | 2.29  | ft   |   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)                |  | 6.88  | gals |   |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged                     |  | 7.5   | gals |   |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailer, pump) |  |   |      |   |
| Last Calibration (time)        | 1130          |                | Last Verification (time) | 1530          | Well Yield                              |  | Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High <input type="checkbox"/> | 35.2 |   |
| Volume (gal)                   | LN            | 2.5            | 5.0                      | 7.5           |   |  |   |      |   |
| Time (military)                | 1747          | 1755           | 1805                     | 1811          |   |  |   |      |   |
| pH (su)                        | 4.15          | 4.09           | 4.10                     | 4.20          |   |  |   |      |   |
| Spec Conductivity (mS/cm)      | 0.038         | 0.049          | 0.045                    | 0.047         |   |  |   |      |   |
| Water Temperature (°C)         | 21.3          | 20.7           | 21.1                     | 20.6          |   |  |   |      |   |
| Turbidity (NTU)                | 0.0           | 0.3            | 1.4                      | 1.0           |   |  |   |      |   |
| Dissolved Oxygen (mg/L)        | 4.13          | 3.87           | 4.01                     | 4.04          |   |  |   |      |   |
| Well Condition Information     |               |                |                          |               | Additional Comments                     |  |   |      |   |
| -overall condition acceptable? |               |                |                          |               |   |  |   |      |   |
| -well cap acceptable?          |               |                |                          |               |   |  |   |      |   |
| -manhole and cover acceptable? |               |                |                          |               | fully of water                          |  |   |      |   |
| -well pad acceptable?          |               |                |                          |               |   |  |   |      |   |
| -area safe?                    |               |                |                          |               |   |  |   |      |   |
| -other comments                |               |                |                          |               |   |  |   |      |   |

**Groundwater Sampling Log**




**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information             |                          |   |    |   |
|--------------------------------|---------------|----------------|--------------------------|---|--------------------------|---|----|---|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                                 |                          | 12719 - MW-10   |    |   |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                      |                          | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |    |   |
| Project Name                   |               | Hot Spot #3005 |                          |   |                          |   |    |   |
| Date                           |               | 9/10/2019      |                          | Well Diameter                           |                          | 2   | in |   |
| Field Personnel                |               | LJ CM          |                          | Screened Interval                       |                          | 17-27   | ft |   |
| General Weather                |               | cloudy         |                          | Total Well Depth (nearest 0.1')         |                          | 26.9  | ft |   |
| Ambient Air Temperature        |               | 80             |                          | Depth to Groundwater (nearest 0.01')    |                          | 18.49   | ft |   |
| Quality Assurance              |               |                |                          | Purge Technique Utilized (bailer, pump) |                          |   |    |   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                           | Length of Water Column   |   |    | 8.41  |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9                                | 1 Casing Volume (0.163)  |   |    | ft  |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                                 | 3 Casing Volumes (0.489) |   |    | gals  |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                              | Total Volume Purged      |   |    | gals  |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                                 | Well Yield               |   |    | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> 26.9 |
| Last Calibration (time)        | 1130          |                | Last Verification (time) |   |                          |   |    |   |
| Volume (gal)                   | Final         |                |                          |   |                          |   |    |   |
| Time (military)                | 1227          |                |                          |   |                          |   |    |   |
| pH (su)                        | 3.80          |                |                          |   |                          |   |    |   |
| Spec Conductivity (mS/cm)      | 0.040         |                |                          |   |                          |   |    |   |
| Water Temperature (°C)         | 21.70         |                |                          |   |                          |   |    |   |
| Turbidity (NTU)                | 57.1          |                |                          |   |                          |   |    |   |
| Dissolved Oxygen (mg/L)        | 1.01          |                |                          |   |                          |   |    |   |
| Well Condition Information     |               |                |                          | Additional Comments                     |                          |   |    |   |
| -overall condition acceptable? |               |                |                          | covered by grass                        |                          |   |    |   |
| -well cap acceptable?          |               |                |                          |   |                          |   |    |   |
| -manhole and cover acceptable? |               |                |                          |   |                          |   |    |   |
| -well pad acceptable?          |               |                |                          |   |                          |   |    |   |
| -area safe?                    |               |                |                          |   |                          |   |    |   |
| -other comments                |               |                |                          |   |                          |   |    |   |

**Groundwater Sampling Log**

|  |               |                |                          |  |   |   |  |                               |
|--|---------------|----------------|--------------------------|--|---|---|--|-------------------------------|
|  |               |                |                          | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |   |   |  |                               |
| <b>Site Specific Information</b>   |               |                |                          | <b>Monitoring Well Information</b>                     |   |   |  |                               |
| Terry Project ID   |               | 2230.8K        |                          | Well ID  |   | 12719-MW-10R  |  |                               |
| SCDHEC Permit No.  |               | 12719          |                          | Testing Parameters                                     |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |  |                               |
| Project Name   |               | Hot Spot #3005 |                          |  |   |   |  |                               |
| Date   |               | 9/10/2019      |                          |  |   |   |  |                               |
| Field Personnel  |               | LJ, CM         |                          | Well Diameter  |   | 2   | in   |                               |
| General Weather  |               | cloudy         |                          | Screened Interval                                      |   | 22-32   | ft   |                               |
| Ambient Air Temperature  |               |                |                          | Total Well Depth (nearest 0.1')                        |   | 32.1  | ft   |                               |
| <b>Quality Assurance</b>   |               |                |                          | Depth to Groundwater (nearest 0.01')                   |   | 18.70   | ft   |                               |
| Meter  | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2  | Length of Water Column  | 13.4  | ft   |                               |
| Serial Number  | VTPGA3X       |                | Serial Number            | V3KNWUE9   | 1 Casing Volume (0.163)   | 2.18  | ft   |                               |
| Calibration Constant   | 4.00 su       |                | Calibration Constant     | 4.00 su  | 3 Casing Volumes (0.489)  | 6.55  | gals                                       |                               |
| Calibration Constant   | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm   | Total Volume Purged   | 6.75  | gals                                       |                               |
| Calibration Constant   | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU  | Purge Technique Utilized (bailer, pump)   |   |  |                               |
| Last Calibration (time)  | 1130          |                | Last Verification (time) |  | Well Yield  | Low <input type="checkbox"/>                                | Medium <input checked="" type="checkbox"/> | High <input type="checkbox"/> |
| Volume (gal)   | initial       | 2.25           | 4.5                      | 6.75   | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |   |  |                               |
| Time (military)  | 1250          | 1256           | 1302                     | 1308   |   |   |  |                               |
| pH (su)  | 3.73          | 3.78           | 3.87                     | 3.87   |   |   |  |                               |
| Spec Conductivity (mS/cm)  | 0.046         | 0.051          | 0.050                    | 0.050  |   |   |  |                               |
| Water Temperature (°C)   | 22.7          | 21.5           | 21.9                     | 21.9   |   |   |  |                               |
| Turbidity (NTU)  | 15.0          | 181            | 177                      | 193  |   |   |  |                               |
| Dissolved Oxygen (mg/L)  | 3.60          | 2.63           | 2.81                     | 2.77   |   |   |  |                               |
| <b>Well Condition Information</b>  |               |                |                          | <b>Additional Comments</b>                             |   |   |  |                               |
| -overall condition acceptable?   |               |                |                          | covered by gear  |   |   |  |                               |
| -well cap acceptable?  |               |                |                          |  |   |   |  |                               |
| -manhole and cover acceptable?   |               |                |                          |  |   |   |  |                               |
| -well pad acceptable?  |               |                |                          |  |   |   |  |                               |
| -area safe?  |               |                |                          |  |   |   |  |                               |
| -other comments  |               |                |                          |  |   |   |  |                               |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |        |                          |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|--------|--------------------------|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                              |   | 12719 - MW-11   |        |                          |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |        |                          |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |        |                          |
| Date                           |               | 9/10/2019      |                          |                                      |   |   |        |                          |
| Field Personnel                |               | LJ, CM         |                          | Well Diameter                        |   | 2   | in     |                          |
| General Weather                |               | cloudy         |                          | Screened Interval                    |   | 18-28   | ft     |                          |
| Ambient Air Temperature        |               | 80°            |                          | Total Well Depth (nearest 0.1')      |   | 28.2  | ft     |                          |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 20.06   | ft     |                          |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |   | 8.14   | ft                       |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   |        | ft                       |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   |        | gals                     |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   |        | gals                     |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |        |                          |
| Last Calibration (time)        | 1130          |                | Last Verification (time) |                                      | Well Yield                              |   |        | 28.2                     |
|                                |               |                |                          |                                      | Low                                     | <input type="checkbox"/>                                    | Medium | <input type="checkbox"/> |
|                                |               |                |                          |                                      |   |   | High   | <input type="checkbox"/> |
| Volume (gal)                   | initial       |                |                          |                                      |   |   |        |                          |
| Time (military)                | 1211          |                |                          |                                      |   |   |        |                          |
| pH (su)                        | 4.07          |                |                          |                                      |   |   |        |                          |
| Spec Conductivity (mS/cm)      | 0.056         |                |                          |                                      |   |   |        |                          |
| Water Temperature (°C)         | 22.2          |                |                          |                                      |   |   |        |                          |
| Turbidity (NTU)                | 2.7           |                |                          |                                      |   |   |        |                          |
| Dissolved Oxygen (mg/L)        | 5.06          |                |                          |                                      |   |   |        |                          |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |        |                          |
| -overall condition acceptable? |               |                |                          | covered by grass                     |   |   |        |                          |
| -well cap acceptable?          |               |                |                          |                                      |   |   |        |                          |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |        |                          |
| -well pad acceptable?          |               |                |                          |                                      |   |   |        |                          |
| -area safe?                    |               |                |                          |                                      |   |   |        |                          |
| -other comments                |               |                |                          |                                      |   |   |        |                          |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |   |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|---|------|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                              |   | 12719 - MW-11R  |   |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |   |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |   |      |
| Date                           |               | 9/10/2019      |                          |                                      |   |   |   |      |
| Field Personnel                |               | LJ, CM         |                          | Well Diameter                        |   | 2   | in  |      |
| General Weather                |               | cloudy         |                          | Screened Interval                    |   | 22-32   | ft  |      |
| Ambient Air Temperature        |               | 50             |                          | Total Well Depth (nearest 0.1')      |   | 32.0  | ft  |      |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 20.25   | ft  |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |   | 14.75   | ft   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   | 1.92  | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   | 5.75  | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   | 6   | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |   |      |
| Last Calibration (time)        | 1130          |                | Last Verification (time) |                                      | Well Yield                              |   | Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High <input type="checkbox"/> | 32.0 |
| Volume (gal)                   | initial       | 2              | 4                        | 6                                    |   |   |   |      |
| Time (military)                | 1229          | 1234           | 1241                     | 1246                                 |   |   |   |      |
| pH (su)                        | 3.94          | 3.89           | 3.81                     | 3.76                                 |   |   |   |      |
| Spec Conductivity (mS/cm)      | 0.051         | 0.043          | 0.042                    | 0.043                                |   |   |   |      |
| Water Temperature (°C)         | 21.6          | 21.0           | 20.5                     | 20.5                                 |   |   |   |      |
| Turbidity (NTU)                | 0.80          | 476            | 447                      | 429                                  |   |   |   |      |
| Dissolved Oxygen (mg/L)        | 4.90          | 5.00           | 4.82                     | 4.90                                 |   |   |   |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |   |      |
| -overall condition acceptable? |               |                |                          |                                      |   |   |   |      |
| -well cap acceptable?          |               |                |                          |                                      |   |   |   |      |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |   |      |
| -well pad acceptable?          |               |                |                          |                                      |   |   |   |      |
| -area safe?                    |               |                |                          |                                      |   |   |   |      |
| -other comments                |               |                |                          | covered by grass                     |   |   |   |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information                 |               |                          |               | Monitoring Well Information  |  |   |      |
|---|---------------|--------------------------|---------------|--|--|---|------|
| Terry Project ID                          |               | 2230.8K                  |               | Well ID  |  | 12719 - MW - 12   |      |
| SCDHEC Permit No.                         |               | 12719                    |               | Testing Parameters   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |      |
| Project Name                              |               | Hot Spot #3005           |               |  |  |   |      |
| Date                                      |               | 9 / 10 / 2019            |               |  |  |   |      |
| Field Personnel                           |               | C.M. LJ                  |               | Well Diameter  |  | 2   | in   |
| General Weather                           |               | Cloudy                   |               | Screened Interval  |  | 20-30   | ft   |
| Ambient Air Temperature                   |               | 80°F                     |               | Total Well Depth (nearest 0.1')  |  | 34.4  | ft   |
| Quality Assurance                         |               |                          |               | Depth to Groundwater (nearest 0.01')   |  |   |      |
| Meter                                     | Horiba U-52-2 | Meter                    | Horiba U-52-2 | Length of Water Column   |  | 16.51   | ft   |
| Serial Number                             | VPTPGA3X      | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)  |  | 2.69  | ft   |
| Calibration Constant                      | 4.00 su       | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)   |  | 8.07  | gals |
| Calibration Constant                      | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged  |  | 8.25  | gals |
| Calibration Constant                      | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (boiler, pump)  |  |   |      |
| Last Calibration (time)                   | 1130          | Last Verification (time) |               | Well Yield Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High <input type="checkbox"/> |  |   |      |
| Volume (gal)                              | INT           | 2.75                     | 5.5           | 8.25   |  |   |      |
| Time (military)                           | 1153          | 1204                     | 1213          | 1221   |  |   |      |
| pH (su)                                   | 4.50          | 4.54                     | 4.23          | 4.16   |  |   |      |
| Spec Conductivity (mS/cm)                 | 0.207         | 0.095                    | 0.095         | 0.091  |  |   |      |
| Water Temperature (°C)                    | 22.6          | 21.5                     | 20.8          | 21.3   |  |   |      |
| Turbidity (NTU)                           | 12.0          | 191                      | 207           | 213  |  |   |      |
| Dissolved Oxygen (mg/L)                   | 6.40          | 6.20                     | 6.10          | 6.10   |  |   |      |
| Well Condition Information                |               |                          |               | Additional Comments  |  |   |      |
| -overall condition acceptable? <u>yes</u> |               |                          |               |  |  |   |      |
| -well cap acceptable? <u>yes</u>          |               |                          |               |  |  |   |      |
| -manhole and cover acceptable? <u>yes</u> |               |                          |               |  |  |   |      |
| -well pad acceptable? <u>yes</u>          |               |                          |               |  |  |   |      |
| -area safe? <u>yes</u>                    |               |                          |               |  |  |   |      |
| -other comments                           |               |                          |               |  |  |   |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |   |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|---|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                              |   | 12719 - MW-13   |   |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |   |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |   |
| Date                           |               | 9/10/2019      |                          |                                      |   |   |   |
| Field Personnel                |               | LJ CM          |                          | Well Diameter                        |   | 2   | in  |
| General Weather                |               | cloudy         |                          | Screened Interval                    |   | 17-27   | ft  |
| Ambient Air Temperature        |               | 80             |                          | Total Well Depth (nearest 0.1')      |   | 27.0  | ft  |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 19.65   | ft  |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |   | 7.35  |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   | ft  |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   | gals  |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   | gals  |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |   |
| Last Calibration (time)        | 11:00         |                | Last Verification (time) |                                      | Well Yield                              |   | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/>      |
| Volume (gal)                   | initial       |                |                          |                                      |   |   | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| Time (military)                | 12:05         |                |                          |                                      |   |   |   |
| pH (su)                        | 4.30          |                |                          |                                      |   |   |   |
| Spec Conductivity (mS/cm)      | 0.059         |                |                          |                                      |   |   |   |
| Water Temperature (°C)         | 21.9          |                |                          |                                      |   |   |   |
| Turbidity (NTU)                | 0.0           |                |                          |                                      |   |   |   |
| Dissolved Oxygen (mg/L)        | 6.11          |                |                          |                                      |   |   |   |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |   |
| -overall condition acceptable? |               |                |                          |                                      |   |   |   |
| -well cap acceptable?          |               |                |                          |                                      |   |   |   |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |   |
| -well pad acceptable?          |               |                |                          |                                      |   |   |   |
| -area safe?                    |               |                |                          |                                      |   |   |   |
| -other comments                |               |                |                          |                                      |   |   |   |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |  |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|--|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                              |   | 12719 - MW-14   |  |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |  |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |  |
| Date                           |               | 9/11/2019      |                          |                                      |   |   |  |
| Field Personnel                |               | LJ CM          |                          | Well Diameter                        |   | 2   | in   |
| General Weather                |               | clear          |                          | Screened Interval                    |   | 21-31   | ft   |
| Ambient Air Temperature        |               | 7.5            |                          | Total Well Depth (nearest 0.1')      |   | 30.6  | ft   |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 29.12   | ft   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |   | ft   |
| Serial Number                  | VP PGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   | gals   |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   | gals   |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |  |
| Last Calibration (time)        | 0800          |                | Last Verification (time) |                                      | Well Yield                              |   | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |
| Volume (gal)                   | initial       |                |                          |                                      |   |   | 30.6   |
| Time (military)                | 0911          |                |                          |                                      |   |   |  |
| pH (su)                        | 3.97          |                |                          |                                      |   |   |  |
| Spec Conductivity (mS/cm)      | 0.114         |                |                          |                                      |   |   |  |
| Water Temperature (°C)         | 21.52         |                |                          |                                      |   |   |  |
| Turbidity (NTU)                | 56.1          |                |                          |                                      |   |   |  |
| Dissolved Oxygen (mg/L)        | 2.42          |                |                          |                                      |   |   |  |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |  |
| -overall condition acceptable? |               |                |                          |                                      |   |   |  |
| -well cap acceptable?          |               |                |                          |                                      |   |   |  |
| -manhole and cover acceptable? |               |                |                          | full of water                        |   |   |  |
| -well pad acceptable?          |               |                |                          |                                      |   |   |  |
| -area safe?                    |               |                |                          |                                      |   |   |  |
| -other comments                |               |                |                          |                                      |   |   |  |



**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information  |               |                |                          | Monitoring Well Information          |   |   |                                 |
|--|---------------|----------------|--------------------------|--------------------------------------|---|---|---------------------------------|
| Terry Project ID   |               | 2230.8K        |                          | Well ID                              |   | 12719 - MW-15   |                                 |
| SCDHEC Permit No.  |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |                                 |
| Project Name   |               | Hot Spot #3005 |                          |                                      |   |   |                                 |
| Date   |               | 9/10/2019      |                          |                                      |   |   |                                 |
| Field Personnel  |               | CM LS          |                          | Well Diameter                        |   | 2   | in                              |
| General Weather  |               | Partly Cloudy  |                          | Screened Interval                    |   | 25.35   | ft                              |
| Ambient Air Temperature  |               | 85°F           |                          | Total Well Depth (nearest 0.1')      |   | 35.5  | ft                              |
| Quality Assurance  |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 26.42   | ft                              |
| Meter  | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  | 9.08  | ft                              |
| Serial Number  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   | ft                              |
| Calibration Constant   | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   | gals                            |
| Calibration Constant   | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   | gals                            |
| Calibration Constant   | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |                                 |
| Last Calibration (time)  | 1130          |                | Last Verification (time) | 1530                                 | Well Yield                              | Low <input type="checkbox"/>                                | Medium <input type="checkbox"/> |
|  |               |                |                          |                                      |   | High <input type="checkbox"/>                               | 35.5                            |
| Volume (gal)   | 0.0           |                |                          |                                      |   |   |                                 |
| Time (military)  | 1546          |                |                          |                                      |   |   |                                 |
| pH (su)  | 4.60          |                |                          |                                      |   |   |                                 |
| Spec Conductivity (mS/cm)  | 0.137         |                |                          |                                      |   |   |                                 |
| Water Temperature (°C)   | 25.24         |                |                          |                                      |   |   |                                 |
| Turbidity (NTU)  | 4.97          |                |                          |                                      |   |   |                                 |
| Dissolved Oxygen (mg/L)  | 2.73          |                |                          |                                      |   |   |                                 |
| Well Condition Information   |               |                |                          | Additional Comments                  |   |   |                                 |
| -overall condition acceptable? <input checked="" type="checkbox"/> |               |                |                          |                                      |   |   |                                 |
| -well cap acceptable? <input checked="" type="checkbox"/>          |               |                |                          |                                      |   |   |                                 |
| -manhole and cover acceptable? <input checked="" type="checkbox"/> |               |                |                          |                                      |   |   |                                 |
| -well pad acceptable? <input checked="" type="checkbox"/>          |               |                |                          |                                      |   |   |                                 |
| -area safe? <input checked="" type="checkbox"/>                    |               |                |                          |                                      |   |   |                                 |
| -other comments  |               |                |                          |                                      |   |   |                                 |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |   |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|---|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                              |   | 12719 - MW-16   |   |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |   |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |   |
| Date                           |               | 9/11/2019      |                          |                                      |   |   |   |
| Field Personnel                |               | LJ CM          |                          | Well Diameter                        |   | 2   | in  |
| General Weather                |               | clear          |                          | Screened Interval                    |   | 28-38   | ft  |
| Ambient Air Temperature        |               | 55             |                          | Total Well Depth (nearest 0.1')      |   | 37.8  | ft  |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 28.34   | ft  |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |   | ft  |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   | ft  |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   | gals  |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   | gals  |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |   |
| Last Calibration (time)        | 0800          |                | Last Verification (time) | 1200                                 | Well Yield                              |   | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/>      |
| Volume (gal)                   | initial       |                |                          |                                      |   |   | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| Time (military)                | 1355          |                |                          |                                      |   |   |   |
| pH (su)                        | 4.81          |                |                          |                                      |   |   |   |
| Spec Conductivity (mS/cm)      | 0.072         |                |                          |                                      |   |   |   |
| Water Temperature (°C)         | 24.7          |                |                          |                                      |   |   |   |
| Turbidity (NTU)                | 4.1           |                |                          |                                      |   |   |   |
| Dissolved Oxygen (mg/L)        | 5.33          |                |                          |                                      |   |   |   |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |   |
| -overall condition acceptable? |               |                |                          | dup 1357                             |   |   |   |
| -well cap acceptable?          |               |                |                          |                                      |   |   |   |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |   |
| -well pad acceptable?          |               |                |                          |                                      |   |   |   |
| -area safe?                    |               |                |                          |                                      |   |   |   |
| -other comments                |               |                |                          |                                      |   |   |   |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |                                 |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|---------------------------------|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                              |   | 12719 - MW-12   |                                 |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |                                 |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |                                 |
| Date                           |               | 9/10/2019      |                          |                                      |   |   |                                 |
| Field Personnel                |               | LJ, CM         |                          | Well Diameter                        |   | 2   | in                              |
| General Weather                |               | clear          |                          | Screened Interval                    |   | 20-30   | ft                              |
| Ambient Air Temperature        |               | 80             |                          | Total Well Depth (nearest 0.1')      |   | 30.5  | ft                              |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 24.55   | ft                              |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  | 5.95  | ft                              |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   | ft                              |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   | gals                            |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   | gals                            |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |                                 |
| Last Calibration (time)        | 1130          |                | Last Verification (time) | 1530                                 | Well Yield                              | Low <input type="checkbox"/>                                | Medium <input type="checkbox"/> |
|                                |               |                |                          |                                      |   | High <input type="checkbox"/>                               | 30.5                            |
| Volume (gal)                   | initial       |                |                          |                                      |   |   |                                 |
| Time (military)                | 1854          |                |                          |                                      |   |   |                                 |
| pH (su)                        | 4.67          |                |                          |                                      |   |   |                                 |
| Spec Conductivity (mS/cm)      | 0.026         |                |                          |                                      |   |   |                                 |
| Water Temperature (°C)         | 19.86         |                |                          |                                      |   |   |                                 |
| Turbidity (NTU)                | 110           |                |                          |                                      |   |   |                                 |
| Dissolved Oxygen (mg/L)        | 7.30          |                |                          |                                      |   |   |                                 |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |                                 |
| -overall condition acceptable? |               |                |                          |                                      |   |   |                                 |
| -well cap acceptable?          |               |                |                          |                                      |   |   |                                 |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |                                 |
| -well pad acceptable?          |               |                |                          |                                      |   |   |                                 |
| -area safe?                    |               |                |                          |                                      |   |   |                                 |
| -other comments                |               |                |                          |                                      |   |   |                                 |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |                |                |                          | Monitoring Well Information          |   |   |  |             |
|--------------------------------|----------------|----------------|--------------------------|--------------------------------------|---|---|--|-------------|
| Terry Project ID               |                | 2230.8K        |                          | Well ID                              |   | 12719 <i>MW-18</i>  |  |             |
| SCDHEC Permit No.              |                | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |  |             |
| Project Name                   |                | Hot Spot #3005 |                          |                                      |   |   |  |             |
| Date                           |                | 9/10/2019      |                          |                                      |   |   |  |             |
| Field Personnel                |                | <i>LJ, CM</i>  |                          | Well Diameter                        |   | <i>2</i>  | in   |             |
| General Weather                |                | <i>clear</i>   |                          | Screened Interval                    |   | <i>20-30</i>  | ft   |             |
| Ambient Air Temperature        |                | <i>80</i>      |                          | Total Well Depth (nearest 0.1')      |   | <i>30.0</i>   | ft   |             |
| Quality Assurance              |                |                |                          | Depth to Groundwater (nearest 0.01') |   | <i>22.96</i>  | ft   |             |
| Meter                          | Horiba U-52-2  | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |   | <i>7.04</i>  | ft          |
| Serial Number                  | VPTPGA3X       |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   |  | ft          |
| Calibration Constant           | 4.00 su        |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   |  | gals        |
| Calibration Constant           | 4.49 mS/cm     |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   |  | gals        |
| Calibration Constant           | 0.0 NTU        |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |  |             |
| Last Calibration (time)        | <i>1130</i>    |                | Last Verification (time) | <i>1530</i>                          | Well Yield                              |   | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> | <i>30.0</i> |
| Volume (gal)                   | <i>initial</i> |                |                          |                                      |   |   |  |             |
| Time (military)                | <i>1902</i>    |                |                          |                                      |   |   |  |             |
| pH (su)                        | <i>4.97</i>    |                |                          |                                      |   |   |  |             |
| Spec Conductivity (mS/cm)      | <i>0.0045</i>  |                |                          |                                      |   |   |  |             |
| Water Temperature (°C)         | <i>20.0</i>    |                |                          |                                      |   |   |  |             |
| Turbidity (NTU)                | <i>2.2</i>     |                |                          |                                      |   |   |  |             |
| Dissolved Oxygen (mg/L)        | <i>8.23</i>    |                |                          |                                      |   |   |  |             |
| Well Condition Information     |                |                |                          | Additional Comments                  |   |   |  |             |
| -overall condition acceptable? |                |                |                          | <i>yes</i>                           |   |   |  |             |
| -well cap acceptable?          |                |                |                          |                                      |   |   |  |             |
| -manhole and cover acceptable? |                |                |                          |                                      |   |   |  |             |
| -well pad acceptable?          |                |                |                          |                                      |   |   |  |             |
| -area safe?                    |                |                |                          |                                      |   |   |  |             |
| -other comments                |                |                |                          |                                      |   |   |  |             |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |                                 |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|---------------------------------|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                              |   | 12719 - MW-19   |                                 |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |                                 |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |                                 |
| Date                           |               | 9/11/2019      |                          |                                      |   |   |                                 |
| Field Personnel                |               | LJ, CM         |                          | Well Diameter                        |   | 2   | in                              |
| General Weather                |               | clear          |                          | Screened Interval                    |   | 20-30   | ft                              |
| Ambient Air Temperature        |               | 75             |                          | Total Well Depth (nearest 0.1')      |   | 30.4  | ft                              |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 25.54   | ft                              |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  | 5.88  | ft                              |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   | ft                              |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   | gals                            |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   | gals                            |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |                                 |
| Last Calibration (time)        | 0800          |                | Last Verification (time) |                                      | Well Yield                              | Low <input type="checkbox"/>                                | Medium <input type="checkbox"/> |
|                                |               |                |                          |                                      |   | High <input type="checkbox"/>                               | 30.4                            |
| Volume (gal)                   | initial       |                |                          |                                      |   |   |                                 |
| Time (military)                | 0820          |                |                          |                                      |   |   |                                 |
| pH (su)                        | 4.08          |                |                          |                                      |   |   |                                 |
| Spec Conductivity (mS/cm)      | 0.150         |                |                          |                                      |   |   |                                 |
| Water Temperature (°C)         | 20.8          |                |                          |                                      |   |   |                                 |
| Turbidity (NTU)                | 0.0           |                |                          |                                      |   |   |                                 |
| Dissolved Oxygen (mg/L)        | 5.35          |                |                          |                                      |   |   |                                 |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |                                 |
| -overall condition acceptable? |               |                |                          | FB-2 0812                            |   |   |                                 |
| -well cap acceptable?          |               |                |                          |                                      |   |   |                                 |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |                                 |
| -well pad acceptable?          |               |                |                          |                                      |   |   |                                 |
| -area safe?                    |               |                |                          |                                      |   |   |                                 |
| -other comments                |               |                |                          |                                      |   |   |                                 |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information   |      |   |    |
|--------------------------------|---------------|----------------|--------------------------|---|------|---|----|
| Terry Project ID               |               | 2230.8K        |                          | Well ID   |      | 12719 - MW-20   |    |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters  |      | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |    |
| Project Name                   |               | Hot Spot #3005 |                          |   |      |   |    |
| Date                           |               | 9/11/2019      |                          | Well Diameter   |      | 2   | in |
| Field Personnel                |               | LJ, CM         |                          | Screened Interval   |      | 20-30   | ft |
| General Weather                |               | clear          |                          | Total Well Depth (nearest 0.1')   |      | 30.4  | ft |
| Ambient Air Temperature        |               | 75             |                          | Depth to Groundwater (nearest 0.01')  |      | 25.09   | ft |
| Quality Assurance              |               |                |                          | Length of Water Column<br>1 Casing Volume (0.163)<br>3 Casing Volumes (0.489)<br>Total Volume Purged<br>Purge Technique Utilized (bailer, pump)<br>Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |      |   |    |
| Meter                          | Horiba U-52-2 | or             | Meter                    |   |      |   |    |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9  | 30.4 |   |    |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su   |      |   |    |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm  |      |   |    |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU   |      |   |    |
| Last Calibration (time)        | 0800          |                | Last Verification (time) |   |      |   |    |
| Volume (gal)                   | initial       |                |                          |   |      |   |    |
| Time (military)                | 0829          |                |                          |   |      |   |    |
| pH (su)                        | 4.08          |                |                          |   |      |   |    |
| Spec Conductivity (mS/cm)      | 0.067         |                |                          |   |      |   |    |
| Water Temperature (°C)         | 20.25         |                |                          |   |      |   |    |
| Turbidity (NTU)                | 497           |                |                          |   |      |   |    |
| Dissolved Oxygen (mg/L)        | 4.12          |                |                          |   |      |   |    |
| Well Condition Information     |               |                |                          | Additional Comments   |      |   |    |
| -overall condition acceptable? |               |                |                          | Yes   |      |   |    |
| -well cap acceptable?          |               |                |                          |   |      |   |    |
| -manhole and cover acceptable? |               |                |                          |   |      |   |    |
| -well pad acceptable?          |               |                |                          |   |      |   |    |
| -area safe?                    |               |                |                          |   |      |   |    |
| -other comments                |               |                |                          |   |      |   |    |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |        |                          |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|--------|--------------------------|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                              |   | 12719 - MW-21   |        |                          |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |        |                          |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |        |                          |
| Date                           |               | 9/11/2019      |                          |                                      |   |   |        |                          |
| Field Personnel                |               | LJCM           |                          | Well Diameter                        |   | 2   | in     |                          |
| General Weather                |               | clear          |                          | Screened Interval                    |   | 20-30   | ft     |                          |
| Ambient Air Temperature        |               | 75             |                          | Total Well Depth (nearest 0.1')      |   | 30.0  | ft     |                          |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   |   |        |                          |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |   | 5.43   | ft                       |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   |        | ft                       |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   |        | gals                     |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   |        | gals                     |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |        |                          |
| Last Calibration (time)        | 0800          |                | Last Verification (time) |                                      | Well Yield                              |   |        | 30.0                     |
|                                |               |                |                          |                                      | Low                                     | <input type="checkbox"/>                                    | Medium | <input type="checkbox"/> |
|                                |               |                |                          |                                      |   |   | High   | <input type="checkbox"/> |
| Volume (gal)                   | initial       |                |                          |                                      |   |   |        |                          |
| Time (military)                | 0840          |                |                          |                                      |   |   |        |                          |
| pH (su)                        | 3.88          |                |                          |                                      |   |   |        |                          |
| Spec Conductivity (mS/cm)      | 0.154         |                |                          |                                      |   |   |        |                          |
| Water Temperature (°C)         | 20.5          |                |                          |                                      |   |   |        |                          |
| Turbidity (NTU)                | 1.55          |                |                          |                                      |   |   |        |                          |
| Dissolved Oxygen (mg/L)        | 6.01          |                |                          |                                      |   |   |        |                          |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |        |                          |
| -overall condition acceptable? |               |                |                          |                                      |   |   |        |                          |
| -well cap acceptable?          |               |                |                          |                                      |   |   |        |                          |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |        |                          |
| -well pad acceptable?          |               |                |                          |                                      |   |   |        |                          |
| -area safe?                    |               |                |                          |                                      |   |   |        |                          |
| -other comments                |               |                |                          |                                      |   |   |        |                          |

### Groundwater Sampling Log




**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |  |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|--|------|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                              |   | 12719 - MW-22   |  |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |  |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |  |      |
| Date                           |               | 9/11/2019      |                          |                                      |   |   |  |      |
| Field Personnel                |               | LJ, CM         |                          | Well Diameter                        |   | 2   | in   |      |
| General Weather                |               | clear          |                          | Screened Interval                    |   | 25.35   | ft   |      |
| Ambient Air Temperature        |               | 80             |                          | Total Well Depth (nearest 0.1')      |   | 35.1  | ft   |      |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 25.85   | ft   |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |   | 9.35   | ft   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   |  | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   |  | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   |  | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |  |      |
| Last Calibration (time)        | 0800          |                | Last Verification (time) |                                      | Well Yield                              |   | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> | 35.2 |
| Volume (gal)                   | Initial       |                |                          |                                      |   |   |  |      |
| Time (military)                | 0954          |                |                          |                                      |   |   |  |      |
| pH (su)                        | 4.63          |                |                          |                                      |   |   |  |      |
| Spec Conductivity (mS/cm)      | 0.033         |                |                          |                                      |   |   |  |      |
| Water Temperature (°C)         | 22.20         |                |                          |                                      |   |   |  |      |
| Turbidity (NTU)                | 11.6          |                |                          |                                      |   |   |  |      |
| Dissolved Oxygen (mg/L)        | 4.60          |                |                          |                                      |   |   |  |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |  |      |
| -overall condition acceptable? |               |                |                          |                                      |   |   |  |      |
| -well cap acceptable?          |               |                |                          |                                      |   |   |  |      |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |  |      |
| -well pad acceptable?          |               |                |                          |                                      |   |   |  |      |
| -area safe?                    |               |                |                          |                                      |   |   |  |      |
| -other comments                |               |                |                          |                                      |   |   |  |      |



**Groundwater Sampling Log**

|   |                |                  |                          |  |   |  |  |
|---|----------------|------------------|--------------------------|--|---|--|--|
|  <b>TERRY Environmental Services</b><br><small>CLIENTS FIRST ALWAYS</small> |                |                  |                          | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |   |  |  |
|   |                |                  |                          | <b>Site Specific Information</b>                       |   | <b>Monitoring Well Information</b>   |  |
| Terry Project ID  |                | 2230.8K          |                          | Well ID  |   | 12719 - <u>MW-23</u>   |  |
| SCDHEC Permit No.   |                | 12719            |                          | Testing Parameters                                     |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB                                |  |
| Project Name  |                | Hot Spot #3005   |                          |  |   |  |  |
| Date  |                | <u>9/11/2019</u> |                          | Well Diameter  |   | <u>2</u>   | in   |
| Field Personnel   |                | <u>LJ, CM</u>    |                          | Screened Interval                                      |   | <u>25-35</u>   | ft   |
| General Weather   |                | <u>clear</u>     |                          | Total Well Depth (nearest 0.1')                        |   | <u>350</u>   | ft   |
| Ambient Air Temperature   |                | <u>80</u>        |                          | Depth to Groundwater (nearest 0.01')                   |   | <u>25.43</u>   | ft   |
| <b>Quality Assurance</b>  |                |                  |                          | Length of Water Column                                 |   | <u>9.57</u>  | ft   |
| Meter   | Horiba U-52-2  | or               | Meter                    | Horiba U-52-2  | 1 Casing Volume (0.163)                 |  | TAG BOTTOM OF WELL TO VERIFY WELL DEPTH. WRITE BELOW TO NEAREST 0.1' |
| Serial Number   | VPTPGA3X       |                  | Serial Number            | V3KNWUE9   | 3 Casing Volumes (0.489)                |  |  |
| Calibration Constant  | 4.00 su        |                  | Calibration Constant     | 4.00 su  | Total Volume Purged                     |  |  |
| Calibration Constant  | 4.49 mS/cm     |                  | Calibration Constant     | 4.49 mS/cm   |   |  |  |
| Calibration Constant  | 0.0 NTU        |                  | Calibration Constant     | 0.0 NTU  | Purge Technique Utilized (bailer, pump) |  |  |
| Last Calibration (time)   | <u>0800</u>    |                  | Last Verification (time) |  | Well Yield                              | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> | <u>35.0</u>  |
| Volume (gal)  | <u>initial</u> |                  |                          |  |   |  |  |
| Time (military)   | <u>0959</u>    |                  |                          |  |   |  |  |
| pH (su)   | <u>4.61</u>    |                  |                          |  |   |  |  |
| Spec Conductivity (mS/cm)   | <u>0.029</u>   |                  |                          |  |   |  |  |
| Water Temperature (°C)  | <u>23.15</u>   |                  |                          |  |   |  |  |
| Turbidity (NTU)   | <u>9.6</u>     |                  |                          |  |   |  |  |
| Dissolved Oxygen (mg/L)   | <u>3.57</u>    |                  |                          |  |   |  |  |
| <b>Well Condition Information</b>   |                |                  |                          | <b>Additional Comments</b>                             |   |  |  |
| -overall condition acceptable?  |                |                  |                          | <u>YES</u>   |   |  |  |
| -well cap acceptable?   |                |                  |                          |  |   |  |  |
| -manhole and cover acceptable?  |                |                  |                          |  |   |  |  |
| -well pad acceptable?   |                |                  |                          |  |   |  |  |
| -area safe?   |                |                  |                          |  |   |  |  |
| -other comments   |                |                  |                          |  |   |  |  |

**Groundwater Sampling Log**




**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |  |   |      |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|--|---|------|------|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                              |  | 12719 - MW-24   |      |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |      |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |  |   |      |      |
| Date                           |               | 9/10/2019      |                          |                                      |  |   |      |      |
| Field Personnel                |               | LJ, CM         |                          | Well Diameter                        |  | 2   | in   |      |
| General Weather                |               | clear          |                          | Screened Interval                    |  | 24-34   | ft   |      |
| Ambient Air Temperature        |               | 90             |                          | Total Well Depth (nearest 0.1')      |  | 34.0  | ft   |      |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |  | 26.75   | ft   |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column   |   | 7.75 | ft   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)  |   |      | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)   |   |      | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged  |   |      | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)  |   |      | 34.0 |
| Last Calibration (time)        | 1130          |                | Last Verification (time) |                                      | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   |      |      |
| Volume (gal)                   | initial       |                |                          |                                      |  |   |      |      |
| Time (military)                | 1511          |                |                          |                                      |  |   |      |      |
| pH (su)                        | 6.33          |                |                          |                                      |  |   |      |      |
| Spec Conductivity (mS/cm)      | 0.068         |                |                          |                                      |  |   |      |      |
| Water Temperature (°C)         | 27.29         |                |                          |                                      |  |   |      |      |
| Turbidity (NTU)                | 276           |                |                          |                                      |  |   |      |      |
| Dissolved Oxygen (mg/L)        | 3.82          |                |                          |                                      |  |   |      |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |  |   |      |      |
| -overall condition acceptable? |               |                |                          |                                      |  |   |      |      |
| -well cap acceptable?          |               |                |                          |                                      |  |   |      |      |
| -manhole and cover acceptable? |               |                |                          |                                      |  |   |      |      |
| -well pad acceptable?          |               |                |                          |                                      |  |   |      |      |
| -area safe?                    |               |                |                          |                                      |  |   |      |      |
| -other comments                |               |                |                          |                                      |  |   |      |      |

**Groundwater Sampling Log**

|  |               |                |                          |  |   |   |                                 |
|--|---------------|----------------|--------------------------|--|---|---|---------------------------------|
|  |               |                |                          | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |   |   |                                 |
| <b>Site Specific Information</b>   |               |                |                          | <b>Monitoring Well Information</b>                     |   |   |                                 |
| Terry Project ID   |               | 2230.8K        |                          | Well ID  |   | 12719 - MW-25   |                                 |
| SCDHEC Permit No.  |               | 12719          |                          | Testing Parameters                                     |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |                                 |
| Project Name   |               | Hot Spot #3005 |                          |  |   |   |                                 |
| Date   |               | 9/11/2019      |                          |  |   |   |                                 |
| Field Personnel  |               | LJCM           |                          | Well Diameter  |   | 2   | in                              |
| General Weather  |               | clear          |                          | Screened Interval                                      |   | 20-30   | ft                              |
| Ambient Air Temperature  |               | 75             |                          | Total Well Depth (nearest 0.1')                        |   | 30.2  | ft                              |
| <b>Quality Assurance</b>   |               |                |                          | Depth to Groundwater (nearest 0.01')                   |   | 23.6  | ft                              |
| Meter  | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2  | Length of Water Column                  | 6.6   | ft                              |
| Serial Number  | VPTPGA3X      |                | Serial Number            | V3KNWUE9   | 1 Casing Volume (0.163)                 |   | ft                              |
| Calibration Constant   | 4.00 su       |                | Calibration Constant     | 4.00 su  | 3 Casing Volumes (0.489)                |   | gals                            |
| Calibration Constant   | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm   | Total Volume Purged                     |   | gals                            |
| Calibration Constant   | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU  | Purge Technique Utilized (bailer, pump) |   |                                 |
| Last Calibration (time)  | 0500          |                | Last Verification (time) |  | Well Yield                              | Low <input type="checkbox"/>                                | Medium <input type="checkbox"/> |
|  |               |                |                          |  |   | High <input type="checkbox"/>                               | 30.2                            |
| Volume (gal)   | initial       |                |                          |  |   |   |                                 |
| Time (military)  | 0924          |                |                          |  |   |   |                                 |
| pH (su)  | 4.22          |                |                          |  |   |   |                                 |
| Spec Conductivity (mS/cm)  | 0.079         |                |                          |  |   |   |                                 |
| Water Temperature (°C)   | 21.5          |                |                          |  |   |   |                                 |
| Turbidity (NTU)  | 190           |                |                          |  |   |   |                                 |
| Dissolved Oxygen (mg/L)  | 4.40          |                |                          |  |   |   |                                 |
| <b>Well Condition Information</b>  |               |                |                          | <b>Additional Comments</b>                             |   |   |                                 |
| -overall condition acceptable?   |               |                |                          |  |   |   |                                 |
| -well cap acceptable?  |               |                |                          |  |   |   |                                 |
| -manhole and cover acceptable?   |               |                |                          |  |   |   |                                 |
| -well pad acceptable?  |               |                |                          |  |   |   |                                 |
| -area safe?  |               |                |                          |  |   |   |                                 |
| -other comments  |               |                |                          |  |   |   |                                 |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |      |                          |        |                          |      |                          |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|------|--------------------------|--------|--------------------------|------|--------------------------|------|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                              |   | 12719 - RW-1  |      |                          |        |                          |      |                          |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |      |                          |        |                          |      |                          |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |      |                          |        |                          |      |                          |      |
| Date                           |               | 9/11/2019      |                          |                                      |   |   |      |                          |        |                          |      |                          |      |
| Field Personnel                |               | LJ, CM         |                          | Well Diameter                        |   | 4   | in   |                          |        |                          |      |                          |      |
| General Weather                |               | Clear          |                          | Screened Interval                    |   | 20-30   | ft   |                          |        |                          |      |                          |      |
| Ambient Air Temperature        |               | 80             |                          | Total Well Depth (nearest 0.1')      |   | 29.6  | ft   |                          |        |                          |      |                          |      |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   |   |      |                          |        |                          |      |                          |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |   | 7.14 | ft                       |        |                          |      |                          |      |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   |      | ft                       |        |                          |      |                          |      |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   |      | gals                     |        |                          |      |                          |      |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   |      | gals                     |        |                          |      |                          |      |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |      |                          |        |                          |      |                          |      |
| Last Calibration (time)        | 0800          |                | Last Verification (time) |                                      | Well Yield                              |   | Low  | <input type="checkbox"/> | Medium | <input type="checkbox"/> | High | <input type="checkbox"/> | 29.6 |
| Volume (gal)                   | initial       |                |                          |                                      |   |   |      |                          |        |                          |      |                          |      |
| Time (military)                | 0800          |                |                          |                                      |   |   |      |                          |        |                          |      |                          |      |
| pH (su)                        |               |                |                          |                                      |   |   |      |                          |        |                          |      |                          |      |
| Spec Conductivity (mS/cm)      |               |                |                          |                                      |   |   |      |                          |        |                          |      |                          |      |
| Water Temperature (°C)         |               |                |                          |                                      |   |   |      |                          |        |                          |      |                          |      |
| Turbidity (NTU)                |               |                |                          |                                      |   |   |      |                          |        |                          |      |                          |      |
| Dissolved Oxygen (mg/L)        |               |                |                          |                                      |   |   |      |                          |        |                          |      |                          |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |      |                          |        |                          |      |                          |      |
| -overall condition acceptable? |               |                |                          | FP 22.26-22.46 (0.2' FP)             |   |   |      |                          |        |                          |      |                          |      |
| -well cap acceptable?          |               |                |                          | golden amber free product            |   |   |      |                          |        |                          |      |                          |      |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |      |                          |        |                          |      |                          |      |
| -well pad acceptable?          |               |                |                          |                                      |   |   |      |                          |        |                          |      |                          |      |
| -area safe?                    |               |                |                          |                                      |   |   |      |                          |        |                          |      |                          |      |
| -other comments                |               |                |                          |                                      |   |   |      |                          |        |                          |      |                          |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |      |   |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|------|---|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                              |   | 12719 - RW-2  |      |   |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |      |   |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |      |   |
| Date                           |               | 9/11/2019      |                          |                                      |   |   |      |   |
| Field Personnel                |               | LJ CM          |                          | Well Diameter                        |   | 4   | in   |   |
| General Weather                |               | clear          |                          | Screened Interval                    |   | 20-30   | ft   |   |
| Ambient Air Temperature        |               | 50             |                          | Total Well Depth (nearest 0.1')      |   | 30.1  | ft   |   |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 22.32   | ft   |   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |   | 7.78 | ft  |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   |      | ft  |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   |      | gals  |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   |      | gals  |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |      |   |
| Last Calibration (time)        | 0500          |                | Last Verification (time) |                                      | Well Yield                              |   |      | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/>      |
| Volume (gal)                   | Initial       |                |                          |                                      |   |   |      | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH.<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| Time (military)                | 1121          |                |                          |                                      |   |   |      |   |
| pH (su)                        | 5.05          |                |                          |                                      |   |   |      |   |
| Spec Conductivity (mS/cm)      | 6.132         |                |                          |                                      |   |   |      |   |
| Water Temperature (°C)         | 22.0          |                |                          |                                      |   |   |      |   |
| Turbidity (NTU)                | 0.0           |                |                          |                                      |   |   |      |   |
| Dissolved Oxygen (mg/L)        | 1.90          |                |                          |                                      |   |   |      |   |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |      |   |
| -overall condition acceptable? |               |                |                          |                                      |   |   |      |   |
| -well cap acceptable?          |               |                |                          |                                      |   |   |      |   |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |      |   |
| -well pad acceptable?          |               |                |                          |                                      |   |   |      |   |
| -area safe?                    |               |                |                          |                                      |   |   |      |   |
| -other comments                |               |                |                          |                                      |   |   |      |   |

**Groundwater Sampling Log**



P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information  |   |   |      |
|--------------------------------|---------------|----------------|--------------------------|--|---|---|------|
| Terry Project ID               |               | 2230.8K        |                          | Well ID  |   | 12719 - RW-3  |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |      |
| Project Name                   |               | Hot Spot #3005 |                          |  |   |   |      |
| Date                           |               | 9/11/2019      |                          | Well Diameter  |   | 4   | in   |
| Field Personnel                |               | LJ, CM         |                          | Screened Interval  |   | 25-35   | ft   |
| General Weather                |               | clear          |                          | Total Well Depth (nearest 0.1')  |   | 35.1  | ft   |
| Ambient Air Temperature        |               | 85             |                          | Depth to Groundwater (nearest 0.01')   |   | 26.14   | ft   |
| Quality Assurance              |               |                |                          | Length of Water Column<br>1 Casing Volume (0.163)<br>3 Casing Volumes (0.489)<br>Total Volume Purged<br>Purge Technique Utilized <del>(bailer, pump)</del> |   |   |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    |  |   |   |      |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9   | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |   | 35.1 |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su  |   |   |      |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm   |   |   |      |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU  |   |   |      |
| Last Calibration (time)        | 0800          |                | Last Verification (time) | 1200   |   |   |      |
| Volume (gal)                   | Initial       |                |                          |  |   |   |      |
| Time (military)                | 1306          |                |                          |  |   |   |      |
| pH (su)                        | 6.28          |                |                          |  |   |   |      |
| Spec Conductivity (mS/cm)      | 3.107         |                |                          |  |   |   |      |
| Water Temperature (°C)         | 25.9          |                |                          |  |   |   |      |
| Turbidity (NTU)                | 0.0           |                |                          |  |   |   |      |
| Dissolved Oxygen (mg/L)        | 2.29          |                |                          |  |   |   |      |
| Well Condition Information     |               |                |                          | Additional Comments  |   |   |      |
| -overall condition acceptable? |               |                |                          | Yes  |   |   |      |
| -well cap acceptable?          |               |                |                          |  |   |   |      |
| -manhole and cover acceptable? |               |                |                          |  |   |   |      |
| -well pad acceptable?          |               |                |                          |  |   |   |      |
| -area safe?                    |               |                |                          |  |   |   |      |
| -other comments                |               |                |                          | Dup. @ 1308  |   |   |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information                 |               |                |                          | Monitoring Well Information          |   |   |      |
|---|---------------|----------------|--------------------------|--------------------------------------|---|---|------|
| Terry Project ID                          |               | 2230.8K        |                          | Well ID                              |   | 12719 - MW-1D   |      |
| SCDHEC Permit No.                         |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |      |
| Project Name                              |               | Hot Spot #3005 |                          |                                      |   |   |      |
| Date                                      |               | 9/11/2019      |                          |                                      |   |   |      |
| Field Personnel                           |               | LJ CM          |                          | Well Diameter                        |   | 2   | in   |
| General Weather                           |               | clear          |                          | Screened Interval                    |   | 55-60   | ft   |
| Ambient Air Temperature                   |               | 80             |                          | Total Well Depth (nearest 0.1')      |   | 58.5  | ft   |
| Quality Assurance                         |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 23.18   | ft   |
|   |               |                |                          | Length of Water Column               |   | 35.32   | ft   |
| Meter                                     | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | 1 Casing Volume (0.163)   | 5.76  | ft   |
| Serial Number                             | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 3 Casing Volumes (0.489)  | 17.27   | gals |
| Calibration Constant                      | 4.00 su       |                | Calibration Constant     | 4.00 su                              | Total Volume Purged   | 30  | gals |
| Calibration Constant                      | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Purge Technique Utilized (bailer, pump)   |   |      |
| Calibration Constant                      | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input checked="" type="checkbox"/> |   |      |
| Last Calibration (time)                   | 0800          |                | Last Verification (time) |                                      | 58.5  |   |      |
| Volume (gal)                              | initial       | 6              | 12                       | 18                                   | 24  | 30  |      |
| Time (military)                           | 1031          | 1035           | 1040                     | 1043                                 | 1046  | 1050  |      |
| pH (su)                                   | 5.42          | 5.36           | 5.37                     | 5.32                                 | 5.23  | 5.18  |      |
| Spec Conductivity (mS/cm)                 | 0.071         | 0.055          | 0.054                    | 0.054                                | 0.051   | 0.050   |      |
| Water Temperature (°C)                    | 23.0          | 21.3           | 20.9                     | 20.4                                 | 20.2  | 20.0  |      |
| Turbidity (NTU)                           | 46.1          | 5.7            | 10.3                     | 2.7                                  | 0.0   | 0.0   |      |
| Dissolved Oxygen (mg/L)                   | 4.55          | 6.50           | 4.50                     | 0.558                                | 5.43  | 6.21  |      |
| Well Condition Information                |               |                |                          | Additional Comments                  |   |   |      |
| -overall condition acceptable? <i>Yes</i> |               |                |                          |                                      |   |   |      |
| -wellcap acceptable?                      |               |                |                          |                                      |   |   |      |
| -manhole and cover acceptable?            |               |                |                          |                                      |   |   |      |
| -well pad acceptable?                     |               |                |                          |                                      |   |   |      |
| -area safe?                               |               |                |                          |                                      |   |   |      |
| -other comments                           |               |                |                          |                                      |   |   |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|------|
| Terry Project ID               |               | 2230.8K        |                          | Well ID                              |   | 12719 - DW-2  |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |      |
| Date                           |               | 9/11/2019      |                          | Well Diameter                        |   | 2   | in   |
| Field Personnel                |               | LJ, CM         |                          | Screened Interval                    |   | 55-60   | ft   |
| General Weather                |               | Clear          |                          | Total Well Depth (nearest 0.1')      |   | 60.1  | ft   |
| Ambient Air Temperature        |               | 75             |                          | Depth to Groundwater (nearest 0.01') |   | 28.91   | ft   |
| Quality Assurance              |               |                |                          | Length of Water Column               |   | 31.19   | ft   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | 1 Casing Volume (0.163)   | 5.08  | ft   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 3 Casing Volumes (0.489)  | 15.25   | gals |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | Total Volume Purged   | 15.75   | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Purge Technique Utilized (bailer, pump)   |   |      |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input checked="" type="checkbox"/> |   |      |
| Last Calibration (time)        | 0800          |                | Last Verification (time) | 1200                                 | 60:1  |   |      |
| Volume (gal)                   | initial       | 5.25           | 10.5                     | 15.75                                |   |   |      |
| Time (military)                | 1400          | 1404           | 1407                     | 1412                                 |   |   |      |
| pH (su)                        | 5.66          | 5.46           | 5.43                     | 5.37                                 |   |   |      |
| Spec Conductivity (mS/cm)      | 0.053         | 0.047          | 0.046                    | 0.047                                |   |   |      |
| Water Temperature (°C)         | 27.2          | 23.2           | 22.6                     | 22.3                                 |   |   |      |
| Turbidity (NTU)                | 0.0           | 0.0            | 0.0                      | 0.0                                  |   |   |      |
| Dissolved Oxygen (mg/L)        | 4.97          | 5.27           | 5.33                     | 5.44                                 |   |   |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |      |
| -overall condition acceptable? |               |                |                          |                                      |   |   |      |
| -well cap acceptable?          |               |                |                          |                                      |   |   |      |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |      |
| -well pad acceptable?          |               |                |                          |                                      |   |   |      |
| -area safe?                    |               |                |                          |                                      |   |   |      |
| -other comments                |               |                |                          |                                      |   |   |      |



**Groundwater Sampling Log**




**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information                 |               |                          |               | Monitoring Well Information  |  |   |                                 |
|---|---------------|--------------------------|---------------|--|--|---|---------------------------------|
| Terry Project ID                          |               | 2230.8K                  |               | Well ID  |  | 12719 - DW-3  |                                 |
| SCDHEC Permit No.                         |               | 12719                    |               | Testing Parameters   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |                                 |
| Project Name                              |               | Hot Spot #3005           |               |  |  |   |                                 |
| Date                                      |               | 9/10/2019                |               |  |  |   |                                 |
| Field Personnel                           |               | LJ CM                    |               | Well Diameter  |  | 2   | in                              |
| General Weather                           |               | clear                    |               | Screened Interval  |  | 60-65   | ft                              |
| Ambient Air Temperature                   |               | 90                       |               | Total Well Depth (nearest 0.1')  |  | 65.00   | ft                              |
| Quality Assurance                         |               |                          |               | Depth to Groundwater (nearest 0.01')   |  | 25.10   | ft                              |
| Meter                                     | Horiba U-52-2 | Meter                    | Horiba U-52-2 | Length of Water Column   |  | 39.9  | ft                              |
| Serial Number                             | VPTPGA3X      | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)  |  | 6.50  | ft                              |
| Calibration Constant                      | 4.00 su       | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)   |  | 19.51   | gals                            |
| Calibration Constant                      | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged  |  | 7.75  | gals                            |
| Calibration Constant                      | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailer, pump)  |  |   |                                 |
| Last Calibration (time)                   | 1130          | Last Verification (time) |               | Well Yield   |  | Low <input checked="" type="checkbox"/>                     | Medium <input type="checkbox"/> |
|   |               |                          |               |  |  | High <input type="checkbox"/>                               | 65.0                            |
| Volume (gal)                              | 6.5           | 7.5                      | 7.75          |  |  |   |                                 |
| Time (military)                           | 1512          | 1516                     | 1528          |  |  |   |                                 |
| pH (su)                                   | 6.10          | 6.96                     | 6.99          |  |  |   |                                 |
| Spec Conductivity (mS/cm)                 | 0.242         | 0.238                    | 0.236         |  |  |   |                                 |
| Water Temperature (°C)                    | 26.0          | 22.5                     | 21.8          |  |  |   |                                 |
| Turbidity (NTU)                           | 3.1           | 176                      | 186           |  |  |   |                                 |
| Dissolved Oxygen (mg/L)                   | 2.48          | 1.94                     | 2.07          |  |  |   |                                 |
| Well Condition Information                |               |                          |               | Additional Comments  |  |   |                                 |
| -overall condition acceptable? <i>yes</i> |               |                          |               | <i>dry @ 1.5 cv<br/>wait 10 minutes for recharge and sample<br/>-very limited recharge</i> |  |   |                                 |
| -well cap acceptable?                     |               |                          |               |  |  |   |                                 |
| -manhole and cover acceptable?            |               |                          |               |  |  |   |                                 |
| -well pad acceptable?                     |               |                          |               |  |  |   |                                 |
| -area safe?                               |               |                          |               |  |  |   |                                 |
| -other comments                           |               |                          |               |  |  |   |                                 |

**Groundwater Sampling Log**

|  |               |                |                          |  |  |   |  |   |
|--|---------------|----------------|--------------------------|--|--|---|--|---|
|  |               |                |                          | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |  |   |  |   |
| <b>Site Specific Information</b>   |               |                |                          | <b>Monitoring Well Information</b>                     |  |   |  |   |
| Terry Project ID   |               | 2230.8K        |                          | Well ID  |  | 12719-5W-1  |  |   |
| SCDHEC Permit No.  |               | 12719          |                          | Testing Parameters                                     |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, PAHs, & EDB |  |   |
| Project Name   |               | Hot Spot #3005 |                          |  |  |   |  |   |
| Date   |               | 9/11/2019      |                          |  |  |   |  |   |
| Field Personnel  |               | LJ, CM         |                          | Well Diameter  |  | in  |  |   |
| General Weather  |               | clear          |                          | Screened Interval                                      |  | ft  |  |   |
| Ambient Air Temperature  |               | 85             |                          | Total Well Depth (nearest 0.1')                        |  | ft  |  |   |
| <b>Quality Assurance</b>   |               |                |                          | Depth to Groundwater (nearest 0.01')                   |  |   |  |   |
| Meter  | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2  | Length of Water Column   |   |  | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| Serial Number  | VPTPGA3X      |                | Serial Number            | V3KNWUE9   | 1 Casing Volume (0.163)  |   |  |   |
| Calibration Constant   | 4.00 su       |                | Calibration Constant     | 4.00 su  | 3 Casing Volumes (0.489)   |   |  |   |
| Calibration Constant   | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm   | Total Volume Purged  |   |  |   |
| Calibration Constant   | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU  | Purge Technique Utilized (bailer, pump)  |   |  |   |
| Last Calibration (time)  | 0800          |                | Last Verification (time) | 1200   | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   |  |   |
| Volume (gal)   | initial       |                |                          |  |  |   |  |   |
| Time (military)  | 1424          |                |                          |  |  |   |  |   |
| pH (su)  | 5.84          |                |                          |  |  |   |  |   |
| Spec Conductivity (mS/cm)  | 0.100         |                |                          |  |  |   |  |   |
| Water Temperature (°C)   | 26.8          |                |                          |  |  |   |  |   |
| Turbidity (NTU)  | 69.0          |                |                          |  |  |   |  |   |
| Dissolved Oxygen (mg/L)  | 1.95          |                |                          |  |  |   |  |   |
| <b>Well Condition Information</b>  |               |                |                          | <b>Additional Comments</b>                             |  |   |  |   |
| -overall condition acceptable?   |               |                |                          |  |  |   |  |   |
| -well cap acceptable?  |               |                |                          |  |  |   |  |   |
| -manhole and cover acceptable?   |               |                |                          |  |  |   |  |   |
| -well pad acceptable?  |               |                |                          |  |  |   |  |   |
| -area safe?  |               |                |                          |  |  |   |  |   |
| -other comments  |               |                |                          |  |  |   |  |   |



**HORIBA U-52-2 DAILY CALIBRATION DATA SHEET**

|   |   |   |
|---|---|---|
| <b>Serial Number:</b><br><u>J6RAKC0E/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | <b>Date:</b> <u>9 / 10 / 19</u><br><br><b>Time:</b> <u>1130</u> | <b>Inspector(s):</b> <u>CM &amp; LJ</u> |
|---|---|---|

**Solution Manufacturer:** Eastern Solutions   
 **Lot Number:** 1712d79   
 **Expiration Date:** 12-30-2011

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>     |
|--------------------------|---------------------------|---------------------|
| pH: 4.00                 | <u>3.99</u>               | ± <u>0.01</u>       |
| Conductivity: 4.49 mS/cm | <u>4.50</u> mS/cm         | ± <u>0.01</u> mS/cm |
| Turbidity: 0.0 NTU       | <u>0.00</u> NTU           | ± <u>∅</u> NTU      |

| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--|---------------------------|-----------------|
| NIST-Traceable Thermometer: <u>24.6</u> °C | <u>23.7</u> °C            | ± <u>0.9</u> °C |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

2280.8K  
Hotspot #3005

---



---



---



---



---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

|   |   |   |
|---|---|---|
| <b>Serial Number:</b><br><u>J6RAKC0E/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | <b>Date:</b> <u>9 / 10 / 19</u><br><br><b>Time:</b> <u>1530</u> | <b>Inspector(s):</b> <u>LJ &amp; CM</u> |
|---|---|---|

**Solution Manufacturer:** Eastern Solutions   
 **Lot Number:** 1712179   
 **Expiration Date:** 12-30-2019

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--------------------------|---------------------------|-----------------|
| pH: 4.00                 | <u>4.01</u>               | ± 0.01          |
| Conductivity: 4.49 mS/cm | <u>4.50</u> mS/cm         | ± 0.01 mS/cm    |
| Turbidity: 0.0 NTU       | <u>0.00</u> NTU           | ± 0 NTU         |

|                             | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
|-----------------------------|-------------------------|---------------------------|-----------------|
| NIST-Traceable Thermometer: | <u>30.1</u> °C          | <u>29.1</u> °C            | ± 1.0 °C        |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

2230.8h  
Hot Spot # 3005

---



---



---



---



---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

|   |   |   |
|---|---|---|
| <b>Serial Number:</b><br><u>J6RAKC0E/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | <b>Date:</b> <u>9 / 10 / 19</u><br><br><b>Time:</b> <u>1909</u> | <b>Inspector(s):</b> <u>CM &amp; LJ</u> |
|---|---|---|

**Solution Manufacturer:** Eastern Solutions    **Lot Number:** 1712179    **Expiration Date:** 12-30-2019

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>  |
|--------------------------|---------------------------|------------------|
| pH: 4.00                 | <u>4.01</u>               | ± <u>0.01</u>    |
| Conductivity: 4.49 mS/cm | <u>4.49</u> mS/cm         | ± <u>∅</u> mS/cm |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± <u>∅</u> NTU   |

|                             | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
|-----------------------------|-------------------------|---------------------------|-----------------|
| NIST-Traceable Thermometer: | <u>22.5</u> °C          | <u>21.9</u> °C            | ± <u>0.6</u> °C |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

2230.8h  
Hotspot #3005

---

---

---

---

---

---

---

---



**HORIBA U-52-2 DAILY CALIBRATION DATA SHEET**

|   |   |   |
|---|---|---|
| <b>Serial Number:</b><br><u>J6RAKC0E/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | <b>Date:</b> <u>9 / 11 / 19</u><br><br><b>Time:</b> <u>0800</u> | <b>Inspector(s):</b> <u>CM &amp; LJ</u> |
|---|---|---|

**Solution Manufacturer:** Eastern Solutions   
 **Lot Number:** 1712d79   
 **Expiration Date:** 12-30-19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>     |
|--------------------------|---------------------------|---------------------|
| pH: 4.00                 | <u>4.00</u>               | ± $\emptyset$       |
| Conductivity: 4.49 mS/cm | <u>4.50</u> mS/cm         | ± <u>0.01</u> mS/cm |
| Turbidity: 0.0 NTU       | <u>0.00</u> NTU           | ± $\emptyset$ NTU   |

|                             | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
|-----------------------------|-------------------------|---------------------------|-----------------|
| NIST-Traceable Thermometer: | <u>22.5</u> °C          | <u>21.9</u> °C            | ± <u>0.6</u> °C |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

22302 8h  
Hotspot #3005

---

---

---

---

---

---

---

---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

|  |   |                             |
|--|---|-----------------------------|
| Serial Number:<br><u>J6RAKC0E/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | Date: <u>9 / 11 / 19</u><br><br>Time: <u>1200</u> | Inspector(s): <u>CM BLS</u> |
|--|---|-----------------------------|

Solution Manufacturer: Eastern Solutions Lot Number: 1712879 Expiration Date: 12-30-2019

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>     |
|--------------------------|---------------------------|---------------------|
| pH: 4.00                 | <u>4.00</u>               | ± <u>∅</u>          |
| Conductivity: 4.49 mS/cm | <u>4.50</u> mS/cm         | ± <u>0.01</u> mS/cm |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± <u>∅</u> NTU      |

| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--|---------------------------|-----------------|
| NIST-Traceable Thermometer: <u>25.9</u> °C | <u>25.4</u> °C            | ± <u>0.5</u> °C |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

2230.811  
Hot spot #3005

---

---

---

---

---

---

---

---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

|   |   |                                    |
|---|---|------------------------------------|
| <b>Serial Number:</b><br><u>J6RAKC0E/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | <b>Date:</b> <u>9 / 11 / 19</u><br><br><b>Time:</b> <u>1530</u> | <b>Inspector(s):</b> <u>CM JLS</u> |
|---|---|------------------------------------|

**Solution Manufacturer:** Eastern Solutions    **Lot Number:** 1712179    **Expiration Date:** 12-30-2019

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>     |
|--------------------------|---------------------------|---------------------|
| pH: 4.00                 | <u>4.00</u>               | ± $\emptyset$       |
| Conductivity: 4.49 mS/cm | <u>4.43</u> mS/cm         | ± <u>0.06</u> mS/cm |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± $\emptyset$ NTU   |

| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--|---------------------------|-----------------|
| NIST-Traceable Thermometer: <u>30.4</u> °C | <u>29.7</u> °C            | ± <u>0.7</u> °C |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

2230.8k  
Hotspot# 3005

---

---

---

---

---

---

---

---



# SHEALY ENVIRONMENTAL SERVICES, INC.

---

## Report of Analysis

**Terry Environmental Services, Inc.**  
222 Varnfield Drive  
Suite F  
Summerville, SC 29483  
Attention: Kelly Cone

Project Name: Hot Spot #3005

Project Number: 2230.8I

Lot Number: **UI11080**

Date Completed: 09/19/2019



09/20/2019 12:43 PM  
Approved and released by:  
Project Manager: Kelly M. Nance



The electronic signature above is the equivalent of a handwritten signature.  
This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

Shealy Environmental Services, Inc.  
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 [www.shealylab.com](http://www.shealylab.com)

# SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

## Case Narrative Terry Environmental Services, Inc. Lot Number: UI11080

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

### Volatiles

The matrix spike/matrix spike duplicate (MS/MSD) associated with sample -016 had tert-butyl formate (TBF) recovered outside of the acceptance limits. The laboratory control sample (LCS) was recovered within the required acceptance limits; therefore, this likely demonstrates a matrix effect.

The MS/MSD associated with sample -031 had TBF and ethanol recovered outside of the acceptance limits. The LCS was recovered within the required acceptance limits; therefore, this likely demonstrates a matrix effect.

Sample -016 had sediment in the sample vials. The liquid was decanted prior to analysis.

Sample -038 for volatiles analysis contained vials with air bubbles greater than ¼" or 6mm in diameter. The laboratory uses these vials for screening and the vials without bubbles for analysis whenever possible.

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Sample Summary Terry Environmental Services, Inc.

Lot Number: UI11080

| Sample Number | Sample ID        | Matrix  | Date Sampled    | Date Received |
|---------------|------------------|---------|-----------------|---------------|
| 001           | 12719 FB-1       | Aqueous | 09/10/2019 1135 | 09/11/2019    |
| 002           | 12719 MW-13      | Aqueous | 09/10/2019 1200 | 09/11/2019    |
| 003           | 12719 MW-12      | Aqueous | 09/10/2019 1221 | 09/11/2019    |
| 004           | 12719 MW-11      | Aqueous | 09/10/2019 1211 | 09/11/2019    |
| 005           | 12719 MW-10      | Aqueous | 09/10/2019 1227 | 09/11/2019    |
| 006           | 12719 MW-11R     | Aqueous | 09/10/2019 1246 | 09/11/2019    |
| 007           | 12719 MW-10R     | Aqueous | 09/10/2019 1308 | 09/11/2019    |
| 008           | 12719 MW-8R      | Aqueous | 09/10/2019 1415 | 09/11/2019    |
| 009           | 12719 MW-4       | Aqueous | 09/10/2019 1446 | 09/11/2019    |
| 010           | 12719 MW-24      | Aqueous | 09/10/2019 1511 | 09/11/2019    |
| 011           | 12719 DW-3       | Aqueous | 09/10/2019 1528 | 09/11/2019    |
| 012           | 12719 MW-15      | Aqueous | 09/10/2019 1546 | 09/11/2019    |
| 013           | 12719 MW-6       | Aqueous | 09/10/2019 1739 | 09/11/2019    |
| 014           | 12719 MW-7       | Aqueous | 09/10/2019 1758 | 09/11/2019    |
| 015           | 12719 MW-9       | Aqueous | 09/10/2019 1811 | 09/11/2019    |
| 016           | 12719 MW-5       | Aqueous | 09/10/2019 1829 | 09/11/2019    |
| 017           | 12719 MW-17      | Aqueous | 09/10/2019 1854 | 09/11/2019    |
| 018           | 12719 MW-18      | Aqueous | 09/10/2019 1902 | 09/11/2019    |
| 019           | 12719 FB-2       | Aqueous | 09/11/2019 0812 | 09/11/2019    |
| 020           | 12719 MW-19      | Aqueous | 09/11/2019 0820 | 09/11/2019    |
| 021           | 12719 MW-20      | Aqueous | 09/11/2019 0829 | 09/11/2019    |
| 022           | 12719 MW-21      | Aqueous | 09/11/2019 0840 | 09/11/2019    |
| 023           | 12719 MW-14      | Aqueous | 09/11/2019 0911 | 09/11/2019    |
| 024           | 12719 MW-25      | Aqueous | 09/11/2019 0924 | 09/11/2019    |
| 025           | 12719 MW-22      | Aqueous | 09/11/2019 0954 | 09/11/2019    |
| 026           | 12719 MW-23      | Aqueous | 09/11/2019 0959 | 09/11/2019    |
| 027           | 12719 MW-1D      | Aqueous | 09/11/2019 1050 | 09/11/2019    |
| 028           | 12719 MW-2R      | Aqueous | 09/11/2019 1109 | 09/11/2019    |
| 029           | 12719 RW-2       | Aqueous | 09/11/2019 1121 | 09/11/2019    |
| 030           | 12719 MW-1R      | Aqueous | 09/11/2019 1212 | 09/11/2019    |
| 031           | 12719 MW-3R      | Aqueous | 09/11/2019 1300 | 09/11/2019    |
| 032           | 12719 RW-3       | Aqueous | 09/11/2019 1306 | 09/11/2019    |
| 033           | 12719 RW-3 dup   | Aqueous | 09/11/2019 1308 | 09/11/2019    |
| 034           | 12719 MW-16      | Aqueous | 09/11/2019 1355 | 09/11/2019    |
| 035           | 12719 MW-16 dup  | Aqueous | 09/11/2019 1357 | 09/11/2019    |
| 036           | 12719 DW-2       | Aqueous | 09/11/2019 1412 | 09/11/2019    |
| 037           | 12719 SW-1       | Aqueous | 09/11/2019 1444 | 09/11/2019    |
| 038           | 12719 Trip Blank | Aqueous | 09/10/2019      | 09/11/2019    |
| 039           | 12719 Trip Blank | Aqueous | 09/10/2019      | 09/11/2019    |
| 040           | 12719 Trip Blank | Aqueous | 09/10/2019      | 09/11/2019    |

(40 samples)

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Detection Summary Terry Environmental Services, Inc. Lot Number: UI11080

| Sample ID | Sample ID   | Matrix  | Parameter                   | Method | Result | Q | Units | Page |
|-----------|-------------|---------|-----------------------------|--------|--------|---|-------|------|
| 011       | 12719 DW-3  | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 33     |   | ug/L  | 27   |
| 013       | 12719 MW-6  | Aqueous | Benzene                     | 8260B  | 24     |   | ug/L  | 31   |
| 013       | 12719 MW-6  | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 0.74   | J | ug/L  | 31   |
| 013       | 12719 MW-6  | Aqueous | Ethylbenzene                | 8260B  | 0.54   | J | ug/L  | 31   |
| 013       | 12719 MW-6  | Aqueous | Methyl tertiary butyl ether | 8260B  | 4.3    |   | ug/L  | 31   |
| 013       | 12719 MW-6  | Aqueous | Naphthalene                 | 8260B  | 16     |   | ug/L  | 31   |
| 013       | 12719 MW-6  | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 18     | J | ug/L  | 31   |
| 013       | 12719 MW-6  | Aqueous | Xylenes (total)             | 8260B  | 29     |   | ug/L  | 31   |
| 013       | 12719 MW-6  | Aqueous | Acenaphthene                | 8270D  | 0.81   |   | ug/L  | 31   |
| 013       | 12719 MW-6  | Aqueous | Fluorene                    | 8270D  | 2.6    |   | ug/L  | 31   |
| 013       | 12719 MW-6  | Aqueous | Naphthalene                 | 8270D  | 9.5    |   | ug/L  | 32   |
| 013       | 12719 MW-6  | Aqueous | Phenanthrene                | 8270D  | 2.7    |   | ug/L  | 32   |
| 013       | 12719 MW-6  | Aqueous | Pyrene                      | 8270D  | 0.31   | J | ug/L  | 32   |
| 016       | 12719 MW-5  | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 320    | J | ug/L  | 37   |
| 016       | 12719 MW-5  | Aqueous | Benzene                     | 8260B  | 1300   |   | ug/L  | 37   |
| 016       | 12719 MW-5  | Aqueous | Ethylbenzene                | 8260B  | 120    |   | ug/L  | 37   |
| 016       | 12719 MW-5  | Aqueous | Methyl tertiary butyl ether | 8260B  | 24     |   | ug/L  | 37   |
| 016       | 12719 MW-5  | Aqueous | Naphthalene                 | 8260B  | 8.8    | J | ug/L  | 37   |
| 016       | 12719 MW-5  | Aqueous | Toluene                     | 8260B  | 910    |   | ug/L  | 37   |
| 016       | 12719 MW-5  | Aqueous | Xylenes (total)             | 8260B  | 1500   |   | ug/L  | 37   |
| 016       | 12719 MW-5  | Aqueous | Naphthalene                 | 8270D  | 1.6    |   | ug/L  | 38   |
| 020       | 12719 MW-19 | Aqueous | Ethanol                     | 8260B  | 60     | J | ug/L  | 44   |
| 021       | 12719 MW-20 | Aqueous | Methyl tertiary butyl ether | 8260B  | 1.0    |   | ug/L  | 46   |
| 022       | 12719 MW-21 | Aqueous | Ethanol                     | 8260B  | 74     | J | ug/L  | 48   |
| 022       | 12719 MW-21 | Aqueous | Methyl tertiary butyl ether | 8260B  | 3.4    |   | ug/L  | 48   |
| 024       | 12719 MW-25 | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 9.7    | J | ug/L  | 52   |
| 024       | 12719 MW-25 | Aqueous | tert-Amyl methyl ether      | 8260B  | 0.68   | J | ug/L  | 52   |
| 024       | 12719 MW-25 | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 0.88   | J | ug/L  | 52   |
| 024       | 12719 MW-25 | Aqueous | Ethanol                     | 8260B  | 71     | J | ug/L  | 52   |
| 024       | 12719 MW-25 | Aqueous | Methyl tertiary butyl ether | 8260B  | 13     |   | ug/L  | 52   |
| 024       | 12719 MW-25 | Aqueous | Xylenes (total)             | 8260B  | 2.4    |   | ug/L  | 52   |
| 028       | 12719 MW-2R | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 9.3    | J | ug/L  | 60   |
| 028       | 12719 MW-2R | Aqueous | Benzene                     | 8260B  | 4.9    |   | ug/L  | 60   |
| 028       | 12719 MW-2R | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 0.56   | J | ug/L  | 60   |
| 028       | 12719 MW-2R | Aqueous | Ethylbenzene                | 8260B  | 0.58   | J | ug/L  | 60   |
| 028       | 12719 MW-2R | Aqueous | Methyl tertiary butyl ether | 8260B  | 1.9    |   | ug/L  | 60   |
| 028       | 12719 MW-2R | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 26     |   | ug/L  | 60   |
| 028       | 12719 MW-2R | Aqueous | Xylenes (total)             | 8260B  | 3.1    |   | ug/L  | 60   |
| 029       | 12719 RW-2  | Aqueous | Benzene                     | 8260B  | 7.3    |   | ug/L  | 62   |
| 029       | 12719 RW-2  | Aqueous | Ethylbenzene                | 8260B  | 3.4    |   | ug/L  | 62   |
| 029       | 12719 RW-2  | Aqueous | Naphthalene                 | 8260B  | 32     |   | ug/L  | 62   |
| 029       | 12719 RW-2  | Aqueous | Toluene                     | 8260B  | 0.41   | J | ug/L  | 62   |
| 029       | 12719 RW-2  | Aqueous | Xylenes (total)             | 8260B  | 56     |   | ug/L  | 62   |
| 029       | 12719 RW-2  | Aqueous | Acenaphthene                | 8270D  | 1.3    |   | ug/L  | 62   |
| 029       | 12719 RW-2  | Aqueous | Fluorene                    | 8270D  | 4.2    |   | ug/L  | 62   |

# Detection Summary (Continued)

Lot Number: UI11080

| Sample | Sample ID      | Matrix  | Parameter                   | Method | Result | Q | Units | Page |
|--------|----------------|---------|-----------------------------|--------|--------|---|-------|------|
| 029    | 12719 RW-2     | Aqueous | Naphthalene                 | 8270D  | 18     |   | ug/L  | 63   |
| 029    | 12719 RW-2     | Aqueous | Phenanthrene                | 8270D  | 4.6    |   | ug/L  | 63   |
| 029    | 12719 RW-2     | Aqueous | Pyrene                      | 8270D  | 0.45   | J | ug/L  | 63   |
| 030    | 12719 MW-1R    | Aqueous | Benzene                     | 8260B  | 37     |   | ug/L  | 64   |
| 030    | 12719 MW-1R    | Aqueous | Ethylbenzene                | 8260B  | 64     |   | ug/L  | 64   |
| 030    | 12719 MW-1R    | Aqueous | Naphthalene                 | 8260B  | 99     |   | ug/L  | 64   |
| 030    | 12719 MW-1R    | Aqueous | Toluene                     | 8260B  | 2.0    |   | ug/L  | 64   |
| 030    | 12719 MW-1R    | Aqueous | Xylenes (total)             | 8260B  | 220    |   | ug/L  | 64   |
| 030    | 12719 MW-1R    | Aqueous | Acenaphthene                | 8270D  | 0.63   | J | ug/L  | 64   |
| 030    | 12719 MW-1R    | Aqueous | Fluorene                    | 8270D  | 1.8    |   | ug/L  | 64   |
| 030    | 12719 MW-1R    | Aqueous | Naphthalene                 | 8270D  | 58     |   | ug/L  | 65   |
| 030    | 12719 MW-1R    | Aqueous | Phenanthrene                | 8270D  | 2.0    |   | ug/L  | 65   |
| 030    | 12719 MW-1R    | Aqueous | Pyrene                      | 8270D  | 0.71   | J | ug/L  | 65   |
| 031    | 12719 MW-3R    | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 730    |   | ug/L  | 66   |
| 031    | 12719 MW-3R    | Aqueous | tert-Amyl methyl ether      | 8260B  | 12     | J | ug/L  | 66   |
| 031    | 12719 MW-3R    | Aqueous | Benzene                     | 8260B  | 860    |   | ug/L  | 66   |
| 031    | 12719 MW-3R    | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 130    |   | ug/L  | 66   |
| 031    | 12719 MW-3R    | Aqueous | Ethanol                     | 8260B  | 1300   |   | ug/L  | 66   |
| 031    | 12719 MW-3R    | Aqueous | Ethylbenzene                | 8260B  | 17     |   | ug/L  | 66   |
| 031    | 12719 MW-3R    | Aqueous | Methyl tertiary butyl ether | 8260B  | 41     |   | ug/L  | 66   |
| 031    | 12719 MW-3R    | Aqueous | Naphthalene                 | 8260B  | 28     |   | ug/L  | 66   |
| 031    | 12719 MW-3R    | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 170    | J | ug/L  | 66   |
| 031    | 12719 MW-3R    | Aqueous | Xylenes (total)             | 8260B  | 73     |   | ug/L  | 66   |
| 031    | 12719 MW-3R    | Aqueous | Naphthalene                 | 8270D  | 18     |   | ug/L  | 67   |
| 032    | 12719 RW-3     | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 2900   |   | ug/L  | 68   |
| 032    | 12719 RW-3     | Aqueous | Benzene                     | 8260B  | 2400   |   | ug/L  | 68   |
| 032    | 12719 RW-3     | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 160    |   | ug/L  | 68   |
| 032    | 12719 RW-3     | Aqueous | Ethylbenzene                | 8260B  | 60     |   | ug/L  | 68   |
| 032    | 12719 RW-3     | Aqueous | Methyl tertiary butyl ether | 8260B  | 61     |   | ug/L  | 68   |
| 032    | 12719 RW-3     | Aqueous | Naphthalene                 | 8260B  | 34     | J | ug/L  | 68   |
| 032    | 12719 RW-3     | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 460    | J | ug/L  | 68   |
| 032    | 12719 RW-3     | Aqueous | Toluene                     | 8260B  | 42     | J | ug/L  | 68   |
| 032    | 12719 RW-3     | Aqueous | Xylenes (total)             | 8260B  | 1300   |   | ug/L  | 68   |
| 032    | 12719 RW-3     | Aqueous | Naphthalene                 | 8270D  | 14     |   | ug/L  | 69   |
| 033    | 12719 RW-3 dup | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 2800   |   | ug/L  | 70   |
| 033    | 12719 RW-3 dup | Aqueous | Benzene                     | 8260B  | 2600   |   | ug/L  | 70   |
| 033    | 12719 RW-3 dup | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 160    |   | ug/L  | 70   |
| 033    | 12719 RW-3 dup | Aqueous | Ethylbenzene                | 8260B  | 61     |   | ug/L  | 70   |
| 033    | 12719 RW-3 dup | Aqueous | Methyl tertiary butyl ether | 8260B  | 81     |   | ug/L  | 70   |
| 033    | 12719 RW-3 dup | Aqueous | Naphthalene                 | 8260B  | 36     | J | ug/L  | 70   |
| 033    | 12719 RW-3 dup | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 450    | J | ug/L  | 70   |
| 033    | 12719 RW-3 dup | Aqueous | Toluene                     | 8260B  | 37     | J | ug/L  | 70   |
| 033    | 12719 RW-3 dup | Aqueous | Xylenes (total)             | 8260B  | 1300   |   | ug/L  | 70   |
| 033    | 12719 RW-3 dup | Aqueous | Naphthalene                 | 8270D  | 15     |   | ug/L  | 71   |
| 034    | 12719 MW-16    | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 2200   |   | ug/L  | 72   |
| 034    | 12719 MW-16    | Aqueous | Benzene                     | 8260B  | 2500   |   | ug/L  | 72   |
| 034    | 12719 MW-16    | Aqueous | Methyl tertiary butyl ether | 8260B  | 260    |   | ug/L  | 72   |
| 034    | 12719 MW-16    | Aqueous | Naphthalene                 | 8260B  | 61     |   | ug/L  | 72   |

## Detection Summary (Continued)

Lot Number: UI11080

| Sample | Sample ID        | Matrix  | Parameter                   | Method | Result | Q | Units | Page |
|--------|------------------|---------|-----------------------------|--------|--------|---|-------|------|
| 034    | 12719 MW-16      | Aqueous | Toluene                     | 8260B  | 31     | J | ug/L  | 72   |
| 034    | 12719 MW-16      | Aqueous | Xylenes (total)             | 8260B  | 1100   |   | ug/L  | 72   |
| 034    | 12719 MW-16      | Aqueous | Naphthalene                 | 8270D  | 39     |   | ug/L  | 73   |
| 035    | 12719 MW-16 dup  | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 2100   |   | ug/L  | 74   |
| 035    | 12719 MW-16 dup  | Aqueous | Benzene                     | 8260B  | 2600   |   | ug/L  | 74   |
| 035    | 12719 MW-16 dup  | Aqueous | Methyl tertiary butyl ether | 8260B  | 270    |   | ug/L  | 74   |
| 035    | 12719 MW-16 dup  | Aqueous | Naphthalene                 | 8260B  | 67     |   | ug/L  | 74   |
| 035    | 12719 MW-16 dup  | Aqueous | Toluene                     | 8260B  | 33     | J | ug/L  | 74   |
| 035    | 12719 MW-16 dup  | Aqueous | Xylenes (total)             | 8260B  | 1100   |   | ug/L  | 74   |
| 035    | 12719 MW-16 dup  | Aqueous | Naphthalene                 | 8270D  | 40     |   | ug/L  | 75   |
| 036    | 12719 DW-2       | Aqueous | Methyl tertiary butyl ether | 8260B  | 0.68   | J | ug/L  | 76   |
| 038    | 12719 Trip Blank | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 15     | J | ug/L  | 80   |

(105 detections)

Description: 12719 FB-1

Matrix: Aqueous

Date Sampled: 09/10/2019 1135

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/12/2019 1222 | JJG     |           | 28737 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 98                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 95                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 99                | 70-130            |                 |         |           |       |     |  |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|-------|-----|--|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 1619 | DAL1    | 09/17/2019 1208 | 29139 |     |  |
| Parameter                 | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL              | Units | Run |  |
| 1,2-Dibromoethane (EDB)   | 106-93-4    | 8011              | ND                |                 | 0.019   | 0.019           | ug/L  | 1   |  |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |       |     |  |
| 1,1,1,2-Tetrachloroethane |             | 99                | 57-137            |                 |         |                 |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-13

Matrix: Aqueous

Date Sampled: 09/10/2019 1200

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/12/2019 1244 | JJG     |           | 28737 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 97                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 93                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 98                | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/13/2019 1545 | JCG     | 09/12/2019 1415 | 28732 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: 12719 MW-13

Matrix: Aqueous

Date Sampled: 09/10/2019 1200

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/13/2019 1545 | JCG     | 09/12/2019 1415 | 28732 |

| Parameter    | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|--------------|------------|-------------------|--------|---|------|------|-------|-----|
| Naphthalene  | 91-20-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Phenanthrene | 85-01-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Pyrene       | 129-00-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

| Surrogate        | Q | Run 1 % Recovery | Acceptance Limits |
|------------------|---|------------------|-------------------|
| Nitrobenzene-d5  |   | 54               | 38-127            |
| 2-Fluorobiphenyl |   | 66               | 37-129            |
| Terphenyl-d14    |   | 99               | 10-148            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/17/2019 1630 | DAL1    | 09/17/2019 1208 | 29139 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL    | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|-------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.019 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 93               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-12

Matrix: Aqueous

Date Sampled: 09/10/2019 1221

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 09/12/2019 1307 | JJG     |           | 28737 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 98               | 70-130            |
| Bromofluorobenzene    |   | 95               | 70-130            |
| Toluene-d8            |   | 98               | 70-130            |

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/13/2019 1610 | JCG     | 09/12/2019 1415 | 28732 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|-------------------------|------------|-------------------|--------|---|------|------|-------|-----|
| Acenaphthene            | 83-32-9    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Acenaphthylene          | 208-96-8   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Anthracene              | 120-12-7   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(a)anthracene      | 56-55-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(a)pyrene          | 50-32-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(b)fluoranthene    | 205-99-2   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(g,h,i)perylene    | 191-24-2   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(k)fluoranthene    | 207-08-9   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Chrysene                | 218-01-9   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Dibenzo(a,h)anthracene  | 53-70-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Fluoranthene            | 206-44-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Fluorene                | 86-73-7    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Indeno(1,2,3-c,d)pyrene | 193-39-5   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-12

Matrix: Aqueous

Date Sampled: 09/10/2019 1221

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |      |       |     |
|------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/13/2019 1610   | JCG     | 09/12/2019 1415 | 28732 |      |       |     |
| Parameter        |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL   | Units | Run |
| Naphthalene      |             | 91-20-3           |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Phenanthrene     |             | 85-01-8           |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Pyrene           |             | 129-00-0          |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |      |       |     |
| Nitrobenzene-d5  |             | 60                | 38-127            |                   |         |                 |       |      |       |     |
| 2-Fluorobiphenyl |             | 72                | 37-129            |                   |         |                 |       |      |       |     |
| Terphenyl-d14    |             | 101               | 10-148            |                   |         |                 |       |      |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |       |       |     |
|---------------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|-------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 1640   | DAL1    | 09/17/2019 1208 | 29139 |       |       |     |
| Parameter                 |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL    | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          |                   | 8011              | ND      |                 | 0.019 | 0.019 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |       |       |     |
| 1,1,1,2-Tetrachloroethane |             | 87                | 57-137            |                   |         |                 |       |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-11

Matrix: Aqueous

Date Sampled: 09/10/2019 1211

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/12/2019 1329 | JJG     |           | 28737 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 98                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 93                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 97                | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/13/2019 1635 | JCG     | 09/12/2019 1415 | 28732 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-11

Matrix: Aqueous

Date Sampled: 09/10/2019 1211

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/13/2019 1635 | JCG     | 09/12/2019 1415 | 28732 |

| Parameter    | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|--------------|------------|-------------------|--------|---|------|------|-------|-----|
| Naphthalene  | 91-20-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Phenanthrene | 85-01-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Pyrene       | 129-00-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

| Surrogate        | Q | Run 1 % Recovery | Acceptance Limits |
|------------------|---|------------------|-------------------|
| Nitrobenzene-d5  |   | 65               | 38-127            |
| 2-Fluorobiphenyl |   | 74               | 37-129            |
| Terphenyl-d14    |   | 93               | 10-148            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/17/2019 1651 | DAL1    | 09/17/2019 1208 | 29139 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL    | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|-------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.019 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 79               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-10

Matrix: Aqueous

Date Sampled: 09/10/2019 1227

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/12/2019 1352 | JJG     |           | 28737 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 98                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 96                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 99                | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/13/2019 1700 | JCG     | 09/12/2019 1415 | 28732 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-10

Matrix: Aqueous

Date Sampled: 09/10/2019 1227

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/13/2019 1700 | JCG     | 09/12/2019 1415 | 28732 |

| Parameter    | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|--------------|------------|-------------------|--------|---|------|------|-------|-----|
| Naphthalene  | 91-20-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Phenanthrene | 85-01-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Pyrene       | 129-00-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

| Surrogate        | Q | Run 1 % Recovery | Acceptance Limits |
|------------------|---|------------------|-------------------|
| Nitrobenzene-d5  |   | 58               | 38-127            |
| 2-Fluorobiphenyl |   | 65               | 37-129            |
| Terphenyl-d14    |   | 93               | 10-148            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/17/2019 1702 | DAL1    | 09/17/2019 1208 | 29139 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL    | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|-------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.019 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 93               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-11R

Matrix: Aqueous

Date Sampled: 09/10/2019 1246

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/12/2019 1414 | JJG     |           | 28737 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 98                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 95                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 98                | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/13/2019 1725 | JCG     | 09/12/2019 1415 | 28732 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: 12719 MW-11R

Matrix: Aqueous

Date Sampled: 09/10/2019 1246

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/13/2019 1725 | JCG     | 09/12/2019 1415 | 28732 |

| Parameter    | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|--------------|------------|-------------------|--------|---|------|------|-------|-----|
| Naphthalene  | 91-20-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Phenanthrene | 85-01-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Pyrene       | 129-00-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

| Surrogate        | Q | Run 1 % Recovery | Acceptance Limits |
|------------------|---|------------------|-------------------|
| Nitrobenzene-d5  |   | 63               | 38-127            |
| 2-Fluorobiphenyl |   | 75               | 37-129            |
| Terphenyl-d14    |   | 100              | 10-148            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/17/2019 1712 | DAL1    | 09/17/2019 1208 | 29139 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL    | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|-------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.019 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 96               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-10R

Matrix: Aqueous

Date Sampled: 09/10/2019 1308

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/12/2019 1436 | JJG     |           | 28737 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 97                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 93                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 98                | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/13/2019 1750 | JCG     | 09/12/2019 1415 | 28732 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-10R

Matrix: Aqueous

Date Sampled: 09/10/2019 1308

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch |     |
|------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/13/2019 1750 | JCG     | 09/12/2019 1415 | 28732 |     |
| Parameter        | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL              | Units | Run |
| Naphthalene      | 91-20-3     | 8270D             | ND                |                 | 0.80    | 0.20            | ug/L  | 1   |
| Phenanthrene     | 85-01-8     | 8270D             | ND                |                 | 0.80    | 0.20            | ug/L  | 1   |
| Pyrene           | 129-00-0    | 8270D             | ND                |                 | 0.80    | 0.20            | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |       |     |
| Nitrobenzene-d5  |             | 57                | 38-127            |                 |         |                 |       |     |
| 2-Fluorobiphenyl |             | 68                | 37-129            |                 |         |                 |       |     |
| Terphenyl-d14    |             | 96                | 10-148            |                 |         |                 |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 1723 | DAL1    | 09/17/2019 1208 | 29139 |     |
| Parameter                 | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL              | Units | Run |
| 1,2-Dibromoethane (EDB)   | 106-93-4    | 8011              | ND                |                 | 0.019   | 0.019           | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |       |     |
| 1,1,1,2-Tetrachloroethane |             | 87                | 57-137            |                 |         |                 |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-8R

Matrix: Aqueous

Date Sampled: 09/10/2019 1415

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/12/2019 1459 | JJG     |           | 28737 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 97                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 92                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 96                | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/13/2019 1815 | JCG     | 09/12/2019 1415 | 28732 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-8R

Matrix: Aqueous

Date Sampled: 09/10/2019 1415

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch |     |
|------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/13/2019 1815 | JCG     | 09/12/2019 1415 | 28732 |     |
| Parameter        | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL              | Units | Run |
| Naphthalene      | 91-20-3     | 8270D             | ND                |                 | 0.80    | 0.20            | ug/L  | 1   |
| Phenanthrene     | 85-01-8     | 8270D             | ND                |                 | 0.80    | 0.20            | ug/L  | 1   |
| Pyrene           | 129-00-0    | 8270D             | ND                |                 | 0.80    | 0.20            | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |       |     |
| Nitrobenzene-d5  |             | 66                | 38-127            |                 |         |                 |       |     |
| 2-Fluorobiphenyl |             | 77                | 37-129            |                 |         |                 |       |     |
| Terphenyl-d14    |             | 96                | 10-148            |                 |         |                 |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 1733 | DAL1    | 09/17/2019 1208 | 29139 |     |
| Parameter                 | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL              | Units | Run |
| 1,2-Dibromoethane (EDB)   | 106-93-4    | 8011              | ND                |                 | 0.019   | 0.019           | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |       |     |
| 1,1,1,2-Tetrachloroethane |             | 92                | 57-137            |                 |         |                 |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-4

Matrix: Aqueous

Date Sampled: 09/10/2019 1446

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/12/2019 1522 | JJG     |           | 28737 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 99                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 95                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 98                | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/13/2019 1840 | JCG     | 09/12/2019 1415 | 28732 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-4

Matrix: Aqueous

Date Sampled: 09/10/2019 1446

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/13/2019 1840 | JCG     | 09/12/2019 1415 | 28732 |

| Parameter    | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|--------------|------------|-------------------|--------|---|------|------|-------|-----|
| Naphthalene  | 91-20-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Phenanthrene | 85-01-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Pyrene       | 129-00-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

| Surrogate        | Q | Run 1 % Recovery | Acceptance Limits |
|------------------|---|------------------|-------------------|
| Nitrobenzene-d5  |   | 64               | 38-127            |
| 2-Fluorobiphenyl |   | 76               | 37-129            |
| Terphenyl-d14    |   | 100              | 10-148            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/17/2019 1744 | DAL1    | 09/17/2019 1208 | 29139 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL    | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|-------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.019 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 95               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-24

Matrix: Aqueous

Date Sampled: 09/10/2019 1511

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/12/2019 1544 | JJG     |           | 28737 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 98                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 94                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 97                | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/13/2019 1905 | JCG     | 09/12/2019 1415 | 28732 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: 12719 MW-24

Matrix: Aqueous

Date Sampled: 09/10/2019 1511

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/13/2019 1905 | JCG     | 09/12/2019 1415 | 28732 |

| Parameter    | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|--------------|------------|-------------------|--------|---|------|------|-------|-----|
| Naphthalene  | 91-20-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Phenanthrene | 85-01-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Pyrene       | 129-00-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

| Surrogate        | Q | Run 1 % Recovery | Acceptance Limits |
|------------------|---|------------------|-------------------|
| Nitrobenzene-d5  |   | 54               | 38-127            |
| 2-Fluorobiphenyl |   | 63               | 37-129            |
| Terphenyl-d14    |   | 98               | 10-148            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/17/2019 1755 | DAL1    | 09/17/2019 1208 | 29139 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL    | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|-------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.019 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 99               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 DW-3

Matrix: Aqueous

Date Sampled: 09/10/2019 1528

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method    | Analytical Method | Dilution          | Analysis Date   | Analyst   | Prep Date  | Batch       |          |  |
|------------------------------------|----------------|-------------------|-------------------|-----------------|-----------|------------|-------------|----------|--|
| 1                                  | 5030B          | 8260B             | 1                 | 09/12/2019 1607 | JJG       |            | 28737       |          |  |
| Parameter                          | CAS Number     | Analytical Method | Result            | Q               | LOQ       | DL         | Units       | Run      |  |
| tert-Amyl alcohol (TAA)            | 75-85-4        | 8260B             | ND                |                 | 20        | 8.0        | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8       | 8260B             | ND                |                 | 10        | 0.42       | ug/L        | 1        |  |
| Benzene                            | 71-43-2        | 8260B             | ND                |                 | 1.0       | 0.40       | ug/L        | 1        |  |
| tert-Butyl formate (TBF)           | 762-75-4       | 8260B             | ND                |                 | 5.0       | 2.0        | ug/L        | 1        |  |
| 1,2-Dichloroethane                 | 107-06-2       | 8260B             | ND                |                 | 1.0       | 0.40       | ug/L        | 1        |  |
| Diisopropyl ether (IPE)            | 108-20-3       | 8260B             | ND                |                 | 1.0       | 0.40       | ug/L        | 1        |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3       | 8260B             | ND                |                 | 20        | 8.0        | ug/L        | 1        |  |
| Ethanol                            | 64-17-5        | 8260B             | ND                |                 | 100       | 52         | ug/L        | 1        |  |
| Ethylbenzene                       | 100-41-4       | 8260B             | ND                |                 | 1.0       | 0.40       | ug/L        | 1        |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3       | 8260B             | ND                |                 | 1.0       | 0.40       | ug/L        | 1        |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4      | 8260B             | ND                |                 | 1.0       | 0.40       | ug/L        | 1        |  |
| Naphthalene                        | 91-20-3        | 8260B             | ND                |                 | 1.0       | 0.40       | ug/L        | 1        |  |
| <b>tert-butyl alcohol (TBA)</b>    | <b>75-65-0</b> | <b>8260B</b>      | <b>33</b>         |                 | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>1</b> |  |
| Toluene                            | 108-88-3       | 8260B             | ND                |                 | 1.0       | 0.40       | ug/L        | 1        |  |
| Xylenes (total)                    | 1330-20-7      | 8260B             | ND                |                 | 1.0       | 0.40       | ug/L        | 1        |  |
| Surrogate                          | Q              | Run 1 % Recovery  | Acceptance Limits |                 |           |            |             |          |  |
| 1,2-Dichloroethane-d4              |                | 100               | 70-130            |                 |           |            |             |          |  |
| Bromofluorobenzene                 |                | 96                | 70-130            |                 |           |            |             |          |  |
| Toluene-d8                         |                | 99                | 70-130            |                 |           |            |             |          |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/13/2019 1930 | JCG     | 09/12/2019 1415 | 28732 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 DW-3

Matrix: Aqueous

Date Sampled: 09/10/2019 1528

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |      |       |     |
|------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/13/2019 1930   | JCG     | 09/12/2019 1415 | 28732 |      |       |     |
| Parameter        |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL   | Units | Run |
| Naphthalene      |             | 91-20-3           |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Phenanthrene     |             | 85-01-8           |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Pyrene           |             | 129-00-0          |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |      |       |     |
| Nitrobenzene-d5  |             | 60                | 38-127            |                   |         |                 |       |      |       |     |
| 2-Fluorobiphenyl |             | 67                | 37-129            |                   |         |                 |       |      |       |     |
| Terphenyl-d14    |             | 36                | 10-148            |                   |         |                 |       |      |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |       |       |     |
|---------------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|-------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 1805   | DAL1    | 09/17/2019 1208 | 29139 |       |       |     |
| Parameter                 |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL    | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          |                   | 8011              | ND      |                 | 0.019 | 0.019 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |       |       |     |
| 1,1,1,2-Tetrachloroethane |             | 100               | 57-137            |                   |         |                 |       |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-15

Matrix: Aqueous

Date Sampled: 09/10/2019 1546

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/12/2019 1201 | JJG     |           | 28739 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 89                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 96                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 97                | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/13/2019 1955 | JCG     | 09/12/2019 1415 | 28732 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-15

Matrix: Aqueous

Date Sampled: 09/10/2019 1546

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/13/2019 1955 | JCG     | 09/12/2019 1415 | 28732 |

| Parameter    | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|--------------|------------|-------------------|--------|---|------|------|-------|-----|
| Naphthalene  | 91-20-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Phenanthrene | 85-01-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Pyrene       | 129-00-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

| Surrogate        | Q | Run 1 % Recovery | Acceptance Limits |
|------------------|---|------------------|-------------------|
| Nitrobenzene-d5  |   | 60               | 38-127            |
| 2-Fluorobiphenyl |   | 72               | 37-129            |
| Terphenyl-d14    |   | 99               | 10-148            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/17/2019 1816 | DAL1    | 09/17/2019 1208 | 29139 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL    | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|-------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.019 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 92               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-6

Matrix: Aqueous

Date Sampled: 09/10/2019 1739

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst    | Prep Date   | Batch       |          |  |
|---|------------------|-------------------|-------------------|-----------------|------------|-------------|-------------|----------|--|
| 1   | 5030B            | 8260B             | 1                 | 09/12/2019 1226 | JJG        |             | 28739       |          |  |
| Parameter                                 | CAS Number       | Analytical Method | Result            | Q               | LOQ        | DL          | Units       | Run      |  |
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND                |                 | 10         | 0.42        | ug/L        | 1        |  |
| <b>Benzene</b>                            | <b>71-43-2</b>   | <b>8260B</b>      | <b>24</b>         |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND                |                 | 5.0        | 2.0         | ug/L        | 1        |  |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Diisopropyl ether (IPE)</b>            | <b>108-20-3</b>  | <b>8260B</b>      | <b>0.74</b>       | <b>J</b>        | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| Ethanol                                   | 64-17-5          | 8260B             | ND                |                 | 100        | 52          | ug/L        | 1        |  |
| <b>Ethylbenzene</b>                       | <b>100-41-4</b>  | <b>8260B</b>      | <b>0.54</b>       | <b>J</b>        | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>4.3</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Naphthalene</b>                        | <b>91-20-3</b>   | <b>8260B</b>      | <b>16</b>         |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | 18                | J               | 20         | 8.0         | ug/L        | 1        |  |
| Toluene                                   | 108-88-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Xylenes (total)</b>                    | <b>1330-20-7</b> | <b>8260B</b>      | <b>29</b>         |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Surrogate                                 | Q                | Run 1 % Recovery  | Acceptance Limits |                 |            |             |             |          |  |
| 1,2-Dichloroethane-d4                     |                  | 90                | 70-130            |                 |            |             |             |          |  |
| Bromofluorobenzene                        |                  | 94                | 70-130            |                 |            |             |             |          |  |
| Toluene-d8                                |                  | 96                | 70-130            |                 |            |             |             |          |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method    | Analytical Method | Dilution    | Analysis Date   | Analyst     | Prep Date       | Batch       |          |  |
|-------------------------|----------------|-------------------|-------------|-----------------|-------------|-----------------|-------------|----------|--|
| 1                       | 3520C          | 8270D             | 1           | 09/13/2019 2020 | JCG         | 09/12/2019 1415 | 28732       |          |  |
| Parameter               | CAS Number     | Analytical Method | Result      | Q               | LOQ         | DL              | Units       | Run      |  |
| <b>Acenaphthene</b>     | <b>83-32-9</b> | <b>8270D</b>      | <b>0.81</b> |                 | <b>0.80</b> | <b>0.20</b>     | <b>ug/L</b> | <b>1</b> |  |
| Acenaphthylene          | 208-96-8       | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Anthracene              | 120-12-7       | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Benzo(a)anthracene      | 56-55-3        | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Benzo(a)pyrene          | 50-32-8        | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Benzo(b)fluoranthene    | 205-99-2       | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Benzo(g,h,i)perylene    | 191-24-2       | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Benzo(k)fluoranthene    | 207-08-9       | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Chrysene                | 218-01-9       | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Dibenzo(a,h)anthracene  | 53-70-3        | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Fluoranthene            | 206-44-0       | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| <b>Fluorene</b>         | <b>86-73-7</b> | <b>8270D</b>      | <b>2.6</b>  |                 | <b>0.80</b> | <b>0.20</b>     | <b>ug/L</b> | <b>1</b> |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5       | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-6

Matrix: Aqueous

Date Sampled: 09/10/2019 1739

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |      |       |     |
|------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/13/2019 2020   | JCG     | 09/12/2019 1415 | 28732 |      |       |     |
| Parameter        |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL   | Units | Run |
| Naphthalene      |             | 91-20-3           |                   | 8270D             | 9.5     |                 | 0.80  | 0.20 | ug/L  | 1   |
| Phenanthrene     |             | 85-01-8           |                   | 8270D             | 2.7     |                 | 0.80  | 0.20 | ug/L  | 1   |
| Pyrene           |             | 129-00-0          |                   | 8270D             | 0.31    | J               | 0.80  | 0.20 | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |      |       |     |
| Nitrobenzene-d5  |             | 60                | 38-127            |                   |         |                 |       |      |       |     |
| 2-Fluorobiphenyl |             | 71                | 37-129            |                   |         |                 |       |      |       |     |
| Terphenyl-d14    |             | 90                | 10-148            |                   |         |                 |       |      |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |       |       |     |
|---------------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|-------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 1827   | DAL1    | 09/17/2019 1208 | 29139 |       |       |     |
| Parameter                 |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL    | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          |                   | 8011              | ND      |                 | 0.019 | 0.019 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |       |       |     |
| 1,1,1,2-Tetrachloroethane |             | 88                | 57-137            |                   |         |                 |       |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-7

Matrix: Aqueous

Date Sampled: 09/10/2019 1758

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/12/2019 1251 | JJG     |           | 28739 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 89                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 92                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 96                | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/16/2019 1811 | JCG     | 09/12/2019 1415 | 28732 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: 12719 MW-7

Matrix: Aqueous

Date Sampled: 09/10/2019 1758

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch |     |
|------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/16/2019 1811 | JCG     | 09/12/2019 1415 | 28732 |     |
| Parameter        | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL              | Units | Run |
| Naphthalene      | 91-20-3     | 8270D             | ND                |                 | 0.80    | 0.20            | ug/L  | 1   |
| Phenanthrene     | 85-01-8     | 8270D             | ND                |                 | 0.80    | 0.20            | ug/L  | 1   |
| Pyrene           | 129-00-0    | 8270D             | ND                |                 | 0.80    | 0.20            | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |       |     |
| Nitrobenzene-d5  |             | 47                | 38-127            |                 |         |                 |       |     |
| 2-Fluorobiphenyl |             | 58                | 37-129            |                 |         |                 |       |     |
| Terphenyl-d14    |             | 102               | 10-148            |                 |         |                 |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 1838 | DAL1    | 09/17/2019 1208 | 29139 |     |
| Parameter                 | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL              | Units | Run |
| 1,2-Dibromoethane (EDB)   | 106-93-4    | 8011              | ND                |                 | 0.019   | 0.019           | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |       |     |
| 1,1,1,2-Tetrachloroethane |             | 94                | 57-137            |                 |         |                 |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-9

Matrix: Aqueous

Date Sampled: 09/10/2019 1811

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/12/2019 1316 | JJG     |           | 28739 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 90                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 93                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 96                | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/16/2019 1837 | JCG     | 09/12/2019 1415 | 28732 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-9

Matrix: Aqueous

Date Sampled: 09/10/2019 1811

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/16/2019 1837 | JCG     | 09/12/2019 1415 | 28732 |

| Parameter    | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|--------------|------------|-------------------|--------|---|------|------|-------|-----|
| Naphthalene  | 91-20-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Phenanthrene | 85-01-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Pyrene       | 129-00-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

| Surrogate        | Q | Run 1 % Recovery | Acceptance Limits |
|------------------|---|------------------|-------------------|
| Nitrobenzene-d5  |   | 61               | 38-127            |
| 2-Fluorobiphenyl |   | 72               | 37-129            |
| Terphenyl-d14    |   | 81               | 10-148            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/17/2019 1848 | DAL1    | 09/17/2019 1208 | 29139 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL    | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|-------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.019 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 95               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-5

Matrix: Aqueous

Date Sampled: 09/10/2019 1829

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 20       | 09/12/2019 1910 | JJG     |           | 28739 |
| 2   | 5030B       | 8260B             | 20       | 09/15/2019 0011 | STM     |           | 28939 |

| Parameter                                 | CAS Number       | Analytical Method | Result      | Q        | LOQ       | DL         | Units       | Run      |
|---|------------------|-------------------|-------------|----------|-----------|------------|-------------|----------|
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | 320         | J        | 400       | 160        | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND          |          | 200       | 8.4        | ug/L        | 1        |
| <b>Benzene</b>                            | <b>71-43-2</b>   | <b>8260B</b>      | <b>1300</b> |          | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>1</b> |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND          |          | 100       | 40         | ug/L        | 1        |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND          |          | 20        | 8.0        | ug/L        | 1        |
| Diisopropyl ether (IPE)                   | 108-20-3         | 8260B             | ND          |          | 20        | 8.0        | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND          |          | 400       | 160        | ug/L        | 1        |
| Ethanol                                   | 64-17-5          | 8260B             | ND          |          | 2000      | 1000       | ug/L        | 1        |
| <b>Ethylbenzene</b>                       | <b>100-41-4</b>  | <b>8260B</b>      | <b>120</b>  |          | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>1</b> |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND          |          | 20        | 8.0        | ug/L        | 1        |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>24</b>   |          | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>1</b> |
| <b>Naphthalene</b>                        | <b>91-20-3</b>   | <b>8260B</b>      | <b>8.8</b>  | <b>J</b> | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>2</b> |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | ND          |          | 400       | 160        | ug/L        | 1        |
| <b>Toluene</b>                            | <b>108-88-3</b>  | <b>8260B</b>      | <b>910</b>  |          | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>1</b> |
| <b>Xylenes (total)</b>                    | <b>1330-20-7</b> | <b>8260B</b>      | <b>1500</b> |          | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>1</b> |

| Surrogate             | Run 1 |            |                   | Run 2 |            |                   |
|-----------------------|-------|------------|-------------------|-------|------------|-------------------|
|                       | Q     | % Recovery | Acceptance Limits | Q     | % Recovery | Acceptance Limits |
| 1,2-Dichloroethane-d4 |       | 84         | 70-130            |       | 96         | 70-130            |
| Bromofluorobenzene    |       | 94         | 70-130            |       | 99         | 70-130            |
| Toluene-d8            |       | 96         | 70-130            |       | 104        | 70-130            |

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/16/2019 1902 | JCG     | 09/12/2019 1415 | 28732 |

| Parameter              | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|------------------------|------------|-------------------|--------|---|------|------|-------|-----|
| Acenaphthene           | 83-32-9    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Acenaphthylene         | 208-96-8   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Anthracene             | 120-12-7   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(a)anthracene     | 56-55-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(a)pyrene         | 50-32-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(b)fluoranthene   | 205-99-2   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(g,h,i)perylene   | 191-24-2   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(k)fluoranthene   | 207-08-9   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Chrysene               | 218-01-9   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Dibenzo(a,h)anthracene | 53-70-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Fluoranthene           | 206-44-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Fluorene               | 86-73-7    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-5

Matrix: Aqueous

Date Sampled: 09/10/2019 1829

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst    | Prep Date       | Batch       |             |             |          |
|-------------------------|-------------|-------------------|-------------------|-------------------|------------|-----------------|-------------|-------------|-------------|----------|
| 1                       | 3520C       | 8270D             | 1                 | 09/16/2019 1902   | JCG        | 09/12/2019 1415 | 28732       |             |             |          |
| Parameter               |             | CAS Number        |                   | Analytical Method | Result     | Q               | LOQ         | DL          | Units       | Run      |
| Indeno(1,2,3-c,d)pyrene |             | 193-39-5          |                   | 8270D             | ND         |                 | 0.80        | 0.20        | ug/L        | 1        |
| <b>Naphthalene</b>      |             | <b>91-20-3</b>    |                   | <b>8270D</b>      | <b>1.6</b> |                 | <b>0.80</b> | <b>0.20</b> | <b>ug/L</b> | <b>1</b> |
| Phenanthrene            |             | 85-01-8           |                   | 8270D             | ND         |                 | 0.80        | 0.20        | ug/L        | 1        |
| Pyrene                  |             | 129-00-0          |                   | 8270D             | ND         |                 | 0.80        | 0.20        | ug/L        | 1        |
| Surrogate               | Q           | Run 1 % Recovery  | Acceptance Limits |                   |            |                 |             |             |             |          |
| Nitrobenzene-d5         |             | 45                | 38-127            |                   |            |                 |             |             |             |          |
| 2-Fluorobiphenyl        |             | 54                | 37-129            |                   |            |                 |             |             |             |          |
| Terphenyl-d14           |             | 96                | 10-148            |                   |            |                 |             |             |             |          |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |       |       |     |
|---------------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|-------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 1859   | DAL1    | 09/17/2019 1208 | 29139 |       |       |     |
| Parameter                 |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL    | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          |                   | 8011              | ND      |                 | 0.019 | 0.019 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |       |       |     |
| 1,1,1,2-Tetrachloroethane |             | 94                | 57-137            |                   |         |                 |       |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-17

Matrix: Aqueous

Date Sampled: 09/10/2019 1854

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/12/2019 1342 | JJG     |           | 28739 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 89                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 92                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 96                | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/16/2019 1927 | JCG     | 09/12/2019 1415 | 28732 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-17

Matrix: Aqueous

Date Sampled: 09/10/2019 1854

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |      |       |     |
|------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/16/2019 1927   | JCG     | 09/12/2019 1415 | 28732 |      |       |     |
| Parameter        |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL   | Units | Run |
| Naphthalene      |             | 91-20-3           |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Phenanthrene     |             | 85-01-8           |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Pyrene           |             | 129-00-0          |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |      |       |     |
| Nitrobenzene-d5  |             | 58                | 38-127            |                   |         |                 |       |      |       |     |
| 2-Fluorobiphenyl |             | 72                | 37-129            |                   |         |                 |       |      |       |     |
| Terphenyl-d14    |             | 95                | 10-148            |                   |         |                 |       |      |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |       |       |     |
|---------------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|-------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 1910   | DAL1    | 09/17/2019 1208 | 29139 |       |       |     |
| Parameter                 |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL    | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          |                   | 8011              | ND      |                 | 0.019 | 0.019 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |       |       |     |
| 1,1,1,2-Tetrachloroethane |             | 85                | 57-137            |                   |         |                 |       |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-18

Matrix: Aqueous

Date Sampled: 09/10/2019 1902

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/12/2019 1407 | JJG     |           | 28739 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 89                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 94                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 98                | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/16/2019 1952 | JCG     | 09/12/2019 1415 | 28732 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: 12719 MW-18

Matrix: Aqueous

Date Sampled: 09/10/2019 1902

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch |       |     |
|------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|-------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/16/2019 1952 | JCG     | 09/12/2019 1415 | 28732 |       |     |
| Parameter        |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL    | Units | Run |
| Naphthalene      |             | 91-20-3           | 8270D             | ND              |         | 0.80            | 0.20  | ug/L  | 1   |
| Phenanthrene     |             | 85-01-8           | 8270D             | ND              |         | 0.80            | 0.20  | ug/L  | 1   |
| Pyrene           |             | 129-00-0          | 8270D             | ND              |         | 0.80            | 0.20  | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |       |       |     |
| Nitrobenzene-d5  |             | 58                | 38-127            |                 |         |                 |       |       |     |
| 2-Fluorobiphenyl |             | 72                | 37-129            |                 |         |                 |       |       |     |
| Terphenyl-d14    |             | 96                | 10-148            |                 |         |                 |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|-------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 1953 | DAL1    | 09/17/2019 1435 | 29156 |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL    | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.019 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |       |       |     |
| 1,1,1,2-Tetrachloroethane |             | 88                | 57-137            |                 |         |                 |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 FB-2

Matrix: Aqueous

Date Sampled: 09/11/2019 0812

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 09/12/2019 1135 | JJG     |           | 28739 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 91               | 70-130            |
| Bromofluorobenzene    |   | 93               | 70-130            |
| Toluene-d8            |   | 97               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/17/2019 2014 | DAL1    | 09/17/2019 1435 | 29156 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL    | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|-------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.019 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 97               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-19

Matrix: Aqueous

Date Sampled: 09/11/2019 0820

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method    | Analytical Method | Dilution          | Analysis Date   | Analyst    | Prep Date | Batch       |          |  |
|------------------------------------|----------------|-------------------|-------------------|-----------------|------------|-----------|-------------|----------|--|
| 1                                  | 5030B          | 8260B             | 1                 | 09/12/2019 1432 | JJG        |           | 28739       |          |  |
| Parameter                          | CAS Number     | Analytical Method | Result            | Q               | LOQ        | DL        | Units       | Run      |  |
| tert-Amyl alcohol (TAA)            | 75-85-4        | 8260B             | ND                |                 | 20         | 8.0       | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8       | 8260B             | ND                |                 | 10         | 0.42      | ug/L        | 1        |  |
| Benzene                            | 71-43-2        | 8260B             | ND                |                 | 1.0        | 0.40      | ug/L        | 1        |  |
| tert-Butyl formate (TBF)           | 762-75-4       | 8260B             | ND                |                 | 5.0        | 2.0       | ug/L        | 1        |  |
| 1,2-Dichloroethane                 | 107-06-2       | 8260B             | ND                |                 | 1.0        | 0.40      | ug/L        | 1        |  |
| Diisopropyl ether (IPE)            | 108-20-3       | 8260B             | ND                |                 | 1.0        | 0.40      | ug/L        | 1        |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3       | 8260B             | ND                |                 | 20         | 8.0       | ug/L        | 1        |  |
| <b>Ethanol</b>                     | <b>64-17-5</b> | <b>8260B</b>      | <b>60</b>         | <b>J</b>        | <b>100</b> | <b>52</b> | <b>ug/L</b> | <b>1</b> |  |
| Ethylbenzene                       | 100-41-4       | 8260B             | ND                |                 | 1.0        | 0.40      | ug/L        | 1        |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3       | 8260B             | ND                |                 | 1.0        | 0.40      | ug/L        | 1        |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4      | 8260B             | ND                |                 | 1.0        | 0.40      | ug/L        | 1        |  |
| Naphthalene                        | 91-20-3        | 8260B             | ND                |                 | 1.0        | 0.40      | ug/L        | 1        |  |
| tert-butyl alcohol (TBA)           | 75-65-0        | 8260B             | ND                |                 | 20         | 8.0       | ug/L        | 1        |  |
| Toluene                            | 108-88-3       | 8260B             | ND                |                 | 1.0        | 0.40      | ug/L        | 1        |  |
| Xylenes (total)                    | 1330-20-7      | 8260B             | ND                |                 | 1.0        | 0.40      | ug/L        | 1        |  |
| Surrogate                          | Q              | Run 1 % Recovery  | Acceptance Limits |                 |            |           |             |          |  |
| 1,2-Dichloroethane-d4              |                | 90                | 70-130            |                 |            |           |             |          |  |
| Bromofluorobenzene                 |                | 93                | 70-130            |                 |            |           |             |          |  |
| Toluene-d8                         |                | 97                | 70-130            |                 |            |           |             |          |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/16/2019 2016 | JCG     | 09/12/2019 1415 | 28732 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-19

Matrix: Aqueous

Date Sampled: 09/11/2019 0820

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/16/2019 2016 | JCG     | 09/12/2019 1415 | 28732 |

| Parameter    | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|--------------|------------|-------------------|--------|---|------|------|-------|-----|
| Naphthalene  | 91-20-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Phenanthrene | 85-01-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Pyrene       | 129-00-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

| Surrogate        | Q | Run 1 % Recovery | Acceptance Limits |
|------------------|---|------------------|-------------------|
| Nitrobenzene-d5  |   | 63               | 38-127            |
| 2-Fluorobiphenyl |   | 74               | 37-129            |
| Terphenyl-d14    |   | 99               | 10-148            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/17/2019 2025 | DAL1    | 09/17/2019 1435 | 29156 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL    | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|-------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.019 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 90               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-20

Matrix: Aqueous

Date Sampled: 09/11/2019 0829

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 09/12/2019 1458 | JJG     |           | 28739 |

| Parameter                                 | CAS Number       | Analytical Method | Result     | Q | LOQ        | DL          | Units       | Run      |
|---|------------------|-------------------|------------|---|------------|-------------|-------------|----------|
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | ND         |   | 20         | 8.0         | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND         |   | 10         | 0.42        | ug/L        | 1        |
| Benzene                                   | 71-43-2          | 8260B             | ND         |   | 1.0        | 0.40        | ug/L        | 1        |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND         |   | 5.0        | 2.0         | ug/L        | 1        |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND         |   | 1.0        | 0.40        | ug/L        | 1        |
| Diisopropyl ether (IPE)                   | 108-20-3         | 8260B             | ND         |   | 1.0        | 0.40        | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND         |   | 20         | 8.0         | ug/L        | 1        |
| Ethanol                                   | 64-17-5          | 8260B             | ND         |   | 100        | 52          | ug/L        | 1        |
| Ethylbenzene                              | 100-41-4         | 8260B             | ND         |   | 1.0        | 0.40        | ug/L        | 1        |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND         |   | 1.0        | 0.40        | ug/L        | 1        |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>1.0</b> |   | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Naphthalene                               | 91-20-3          | 8260B             | ND         |   | 1.0        | 0.40        | ug/L        | 1        |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | ND         |   | 20         | 8.0         | ug/L        | 1        |
| Toluene                                   | 108-88-3         | 8260B             | ND         |   | 1.0        | 0.40        | ug/L        | 1        |
| Xylenes (total)                           | 1330-20-7        | 8260B             | ND         |   | 1.0        | 0.40        | ug/L        | 1        |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 90               | 70-130            |
| Bromofluorobenzene    |   | 92               | 70-130            |
| Toluene-d8            |   | 96               | 70-130            |

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/16/2019 2042 | JCG     | 09/12/2019 1415 | 28732 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|-------------------------|------------|-------------------|--------|---|------|------|-------|-----|
| Acenaphthene            | 83-32-9    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Acenaphthylene          | 208-96-8   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Anthracene              | 120-12-7   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(a)anthracene      | 56-55-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(a)pyrene          | 50-32-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(b)fluoranthene    | 205-99-2   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(g,h,i)perylene    | 191-24-2   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(k)fluoranthene    | 207-08-9   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Chrysene                | 218-01-9   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Dibenzo(a,h)anthracene  | 53-70-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Fluoranthene            | 206-44-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Fluorene                | 86-73-7    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Indeno(1,2,3-c,d)pyrene | 193-39-5   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-20

Matrix: Aqueous

Date Sampled: 09/11/2019 0829

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/16/2019 2042 | JCG     | 09/12/2019 1415 | 28732 |

| Parameter    | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|--------------|------------|-------------------|--------|---|------|------|-------|-----|
| Naphthalene  | 91-20-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Phenanthrene | 85-01-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Pyrene       | 129-00-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

| Surrogate        | Q | Run 1 % Recovery | Acceptance Limits |
|------------------|---|------------------|-------------------|
| Nitrobenzene-d5  |   | 59               | 38-127            |
| 2-Fluorobiphenyl |   | 69               | 37-129            |
| Terphenyl-d14    |   | 98               | 10-148            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/17/2019 2046 | DAL1    | 09/17/2019 1435 | 29156 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL    | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|-------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.019 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 91               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-21

Matrix: Aqueous

Date Sampled: 09/11/2019 0840

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method      | Analytical Method | Dilution   | Analysis Date   | Analyst    | Prep Date   | Batch       |          |
|---|------------------|-------------------|------------|-----------------|------------|-------------|-------------|----------|
| 1   | 5030B            | 8260B             | 1          | 09/12/2019 1523 | JJG        |             | 28739       |          |
| Parameter                                 | CAS Number       | Analytical Method | Result     | Q               | LOQ        | DL          | Units       | Run      |
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | ND         |                 | 20         | 8.0         | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND         |                 | 10         | 0.42        | ug/L        | 1        |
| Benzene                                   | 71-43-2          | 8260B             | ND         |                 | 1.0        | 0.40        | ug/L        | 1        |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND         |                 | 5.0        | 2.0         | ug/L        | 1        |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND         |                 | 1.0        | 0.40        | ug/L        | 1        |
| Diisopropyl ether (IPE)                   | 108-20-3         | 8260B             | ND         |                 | 1.0        | 0.40        | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND         |                 | 20         | 8.0         | ug/L        | 1        |
| <b>Ethanol</b>                            | <b>64-17-5</b>   | <b>8260B</b>      | <b>74</b>  | <b>J</b>        | <b>100</b> | <b>52</b>   | <b>ug/L</b> | <b>1</b> |
| Ethylbenzene                              | 100-41-4         | 8260B             | ND         |                 | 1.0        | 0.40        | ug/L        | 1        |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND         |                 | 1.0        | 0.40        | ug/L        | 1        |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>3.4</b> |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Naphthalene                               | 91-20-3          | 8260B             | ND         |                 | 1.0        | 0.40        | ug/L        | 1        |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | ND         |                 | 20         | 8.0         | ug/L        | 1        |
| Toluene                                   | 108-88-3         | 8260B             | ND         |                 | 1.0        | 0.40        | ug/L        | 1        |
| Xylenes (total)                           | 1330-20-7        | 8260B             | ND         |                 | 1.0        | 0.40        | ug/L        | 1        |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 89               | 70-130            |
| Bromofluorobenzene    |   | 95               | 70-130            |
| Toluene-d8            |   | 97               | 70-130            |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|
| 1                       | 3520C       | 8270D             | 1        | 09/16/2019 2107 | JCG     | 09/12/2019 1415 | 28732 |     |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-21

Matrix: Aqueous

Date Sampled: 09/11/2019 0840

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/16/2019 2107 | JCG     | 09/12/2019 1415 | 28732 |

| Parameter    | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|--------------|------------|-------------------|--------|---|------|------|-------|-----|
| Naphthalene  | 91-20-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Phenanthrene | 85-01-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Pyrene       | 129-00-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

| Surrogate        | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|------------------|---|---------------------|----------------------|
| Nitrobenzene-d5  |   | 52                  | 38-127               |
| 2-Fluorobiphenyl |   | 65                  | 37-129               |
| Terphenyl-d14    |   | 98                  | 10-148               |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/17/2019 2056 | DAL1    | 09/17/2019 1435 | 29156 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL    | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|-------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.019 | ug/L  | 1   |

| Surrogate                 | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|---------------------------|---|---------------------|----------------------|
| 1,1,1,2-Tetrachloroethane |   | 94                  | 57-137               |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: 12719 MW-14

Matrix: Aqueous

Date Sampled: 09/11/2019 0911

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 09/12/2019 1548 | JJG     |           | 28739 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 91               | 70-130            |
| Bromofluorobenzene    |   | 94               | 70-130            |
| Toluene-d8            |   | 97               | 70-130            |

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/18/2019 1344 | JCG     | 09/16/2019 1512 | 29038 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|-------------------------|------------|-------------------|--------|---|------|------|-------|-----|
| Acenaphthene            | 83-32-9    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Acenaphthylene          | 208-96-8   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Anthracene              | 120-12-7   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(a)anthracene      | 56-55-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(a)pyrene          | 50-32-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(b)fluoranthene    | 205-99-2   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(g,h,i)perylene    | 191-24-2   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(k)fluoranthene    | 207-08-9   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Chrysene                | 218-01-9   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Dibenzo(a,h)anthracene  | 53-70-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Fluoranthene            | 206-44-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Fluorene                | 86-73-7    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Indeno(1,2,3-c,d)pyrene | 193-39-5   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-14

Matrix: Aqueous

Date Sampled: 09/11/2019 0911

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/18/2019 1344 | JCG     | 09/16/2019 1512 | 29038 |

| Parameter    | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|--------------|------------|-------------------|--------|---|------|------|-------|-----|
| Naphthalene  | 91-20-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Phenanthrene | 85-01-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Pyrene       | 129-00-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

| Surrogate        | Q | Run 1 % Recovery | Acceptance Limits |
|------------------|---|------------------|-------------------|
| Nitrobenzene-d5  |   | 48               | 38-127            |
| 2-Fluorobiphenyl |   | 51               | 37-129            |
| Terphenyl-d14    |   | 71               | 10-148            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/17/2019 2107 | DAL1    | 09/17/2019 1435 | 29156 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL    | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|-------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.019 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 91               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-25

Matrix: Aqueous

Date Sampled: 09/11/2019 0924

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/12/2019 1613 | JJG     |           | 28739 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | 9.7               | J               | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | 0.68              | J               | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | 0.88              | J               | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | 71                | J               | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | 13                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | 2.4               |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 90                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 94                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 96                | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/18/2019 1407 | JCG     | 09/16/2019 1512 | 29038 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-25

Matrix: Aqueous

Date Sampled: 09/11/2019 0924

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/18/2019 1407 | JCG     | 09/16/2019 1512 | 29038 |

| Parameter    | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|--------------|------------|-------------------|--------|---|------|------|-------|-----|
| Naphthalene  | 91-20-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Phenanthrene | 85-01-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Pyrene       | 129-00-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

| Surrogate        | Q | Run 1 % Recovery | Acceptance Limits |
|------------------|---|------------------|-------------------|
| Nitrobenzene-d5  |   | 43               | 38-127            |
| 2-Fluorobiphenyl |   | 44               | 37-129            |
| Terphenyl-d14    |   | 71               | 10-148            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/17/2019 2118 | DAL1    | 09/17/2019 1435 | 29156 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL    | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|-------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.019 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 82               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-22

Matrix: Aqueous

Date Sampled: 09/11/2019 0954

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 09/12/2019 1639 | JJG     |           | 28739 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 90               | 70-130            |
| Bromofluorobenzene    |   | 95               | 70-130            |
| Toluene-d8            |   | 96               | 70-130            |

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/18/2019 1431 | JCG     | 09/16/2019 1512 | 29038 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|-------------------------|------------|-------------------|--------|---|------|------|-------|-----|
| Acenaphthene            | 83-32-9    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Acenaphthylene          | 208-96-8   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Anthracene              | 120-12-7   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(a)anthracene      | 56-55-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(a)pyrene          | 50-32-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(b)fluoranthene    | 205-99-2   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(g,h,i)perylene    | 191-24-2   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Benzo(k)fluoranthene    | 207-08-9   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Chrysene                | 218-01-9   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Dibenzo(a,h)anthracene  | 53-70-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Fluoranthene            | 206-44-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Fluorene                | 86-73-7    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Indeno(1,2,3-c,d)pyrene | 193-39-5   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-22

Matrix: Aqueous

Date Sampled: 09/11/2019 0954

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/18/2019 1431 | JCG     | 09/16/2019 1512 | 29038 |

| Parameter    | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|--------------|------------|-------------------|--------|---|------|------|-------|-----|
| Naphthalene  | 91-20-3    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Phenanthrene | 85-01-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Pyrene       | 129-00-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

| Surrogate        | Q | Run 1 % Recovery | Acceptance Limits |
|------------------|---|------------------|-------------------|
| Nitrobenzene-d5  |   | 50               | 38-127            |
| 2-Fluorobiphenyl |   | 51               | 37-129            |
| Terphenyl-d14    |   | 71               | 10-148            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/17/2019 2128 | DAL1    | 09/17/2019 1435 | 29156 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL    | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|-------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.019 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 89               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-23

Matrix: Aqueous

Date Sampled: 09/11/2019 0959

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/12/2019 1704 | JJG     |           | 28739 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 89                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 94                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 95                | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/18/2019 1454 | JCG     | 09/16/2019 1512 | 29038 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-23

Matrix: Aqueous

Date Sampled: 09/11/2019 0959

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |      |       |     |
|------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/18/2019 1454   | JCG     | 09/16/2019 1512 | 29038 |      |       |     |
| Parameter        |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL   | Units | Run |
| Naphthalene      |             | 91-20-3           |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Phenanthrene     |             | 85-01-8           |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Pyrene           |             | 129-00-0          |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |      |       |     |
| Nitrobenzene-d5  |             | 52                | 38-127            |                   |         |                 |       |      |       |     |
| 2-Fluorobiphenyl |             | 56                | 37-129            |                   |         |                 |       |      |       |     |
| Terphenyl-d14    |             | 74                | 10-148            |                   |         |                 |       |      |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |       |       |     |
|---------------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|-------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 2139   | DAL1    | 09/17/2019 1435 | 29156 |       |       |     |
| Parameter                 |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL    | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          |                   | 8011              | ND      |                 | 0.019 | 0.019 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |       |       |     |
| 1,1,1,2-Tetrachloroethane |             | 81                | 57-137            |                   |         |                 |       |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: 12719 MW-1D

Matrix: Aqueous

Date Sampled: 09/11/2019 1050

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/12/2019 1729 | JJG     |           | 28739 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 89                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 91                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 94                | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/18/2019 1517 | JCG     | 09/16/2019 1512 | 29038 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-1D

Matrix: Aqueous

Date Sampled: 09/11/2019 1050

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |      |       |     |
|------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/18/2019 1517   | JCG     | 09/16/2019 1512 | 29038 |      |       |     |
| Parameter        |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL   | Units | Run |
| Naphthalene      |             | 91-20-3           |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Phenanthrene     |             | 85-01-8           |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Pyrene           |             | 129-00-0          |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |      |       |     |
| Nitrobenzene-d5  |             | 46                | 38-127            |                   |         |                 |       |      |       |     |
| 2-Fluorobiphenyl |             | 50                | 37-129            |                   |         |                 |       |      |       |     |
| Terphenyl-d14    |             | 71                | 10-148            |                   |         |                 |       |      |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |       |       |     |
|---------------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|-------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 2150   | DAL1    | 09/17/2019 1435 | 29156 |       |       |     |
| Parameter                 |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL    | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          |                   | 8011              | ND      |                 | 0.020 | 0.020 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |       |       |     |
| 1,1,1,2-Tetrachloroethane |             | 92                | 57-137            |                   |         |                 |       |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-2R

Matrix: Aqueous

Date Sampled: 09/11/2019 1109

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst    | Prep Date   | Batch       |          |  |
|---|------------------|-------------------|-------------------|-----------------|------------|-------------|-------------|----------|--|
| 1   | 5030B            | 8260B             | 1                 | 09/12/2019 1755 | JJG        |             | 28739       |          |  |
| Parameter                                 | CAS Number       | Analytical Method | Result            | Q               | LOQ        | DL          | Units       | Run      |  |
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | 9.3               | J               | 20         | 8.0         | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND                |                 | 10         | 0.42        | ug/L        | 1        |  |
| <b>Benzene</b>                            | <b>71-43-2</b>   | <b>8260B</b>      | <b>4.9</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND                |                 | 5.0        | 2.0         | ug/L        | 1        |  |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Diisopropyl ether (IPE)</b>            | <b>108-20-3</b>  | <b>8260B</b>      | <b>0.56</b>       | <b>J</b>        | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| Ethanol                                   | 64-17-5          | 8260B             | ND                |                 | 100        | 52          | ug/L        | 1        |  |
| <b>Ethylbenzene</b>                       | <b>100-41-4</b>  | <b>8260B</b>      | <b>0.58</b>       | <b>J</b>        | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>1.9</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Naphthalene                               | 91-20-3          | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | 26                |                 | 20         | 8.0         | ug/L        | 1        |  |
| Toluene                                   | 108-88-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Xylenes (total)</b>                    | <b>1330-20-7</b> | <b>8260B</b>      | <b>3.1</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Surrogate                                 | Q                | Run 1 % Recovery  | Acceptance Limits |                 |            |             |             |          |  |
| 1,2-Dichloroethane-d4                     |                  | 89                | 70-130            |                 |            |             |             |          |  |
| Bromofluorobenzene                        |                  | 93                | 70-130            |                 |            |             |             |          |  |
| Toluene-d8                                |                  | 95                | 70-130            |                 |            |             |             |          |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/18/2019 1540 | JCG     | 09/16/2019 1512 | 29038 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-2R

Matrix: Aqueous

Date Sampled: 09/11/2019 1109

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |      |       |     |
|------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/18/2019 1540   | JCG     | 09/16/2019 1512 | 29038 |      |       |     |
| Parameter        |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL   | Units | Run |
| Naphthalene      |             | 91-20-3           |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Phenanthrene     |             | 85-01-8           |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Pyrene           |             | 129-00-0          |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |      |       |     |
| Nitrobenzene-d5  |             | 55                | 38-127            |                   |         |                 |       |      |       |     |
| 2-Fluorobiphenyl |             | 57                | 37-129            |                   |         |                 |       |      |       |     |
| Terphenyl-d14    |             | 55                | 10-148            |                   |         |                 |       |      |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |       |       |     |
|---------------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|-------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 2200   | DAL1    | 09/17/2019 1435 | 29156 |       |       |     |
| Parameter                 |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL    | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          |                   | 8011              | ND      |                 | 0.019 | 0.019 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |       |       |     |
| 1,1,1,2-Tetrachloroethane |             | 101               | 57-137            |                   |         |                 |       |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 RW-2

Matrix: Aqueous

Date Sampled: 09/11/2019 1121

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst    | Prep Date   | Batch       |          |  |
|------------------------------------|------------------|-------------------|-------------------|-----------------|------------|-------------|-------------|----------|--|
| 1                                  | 5030B            | 8260B             | 1                 | 09/12/2019 1820 | JJG        |             | 28739       |          |  |
| Parameter                          | CAS Number       | Analytical Method | Result            | Q               | LOQ        | DL          | Units       | Run      |  |
| tert-Amyl alcohol (TAA)            | 75-85-4          | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8         | 8260B             | ND                |                 | 10         | 0.42        | ug/L        | 1        |  |
| <b>Benzene</b>                     | <b>71-43-2</b>   | <b>8260B</b>      | <b>7.3</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-Butyl formate (TBF)           | 762-75-4         | 8260B             | ND                |                 | 5.0        | 2.0         | ug/L        | 1        |  |
| 1,2-Dichloroethane                 | 107-06-2         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Diisopropyl ether (IPE)            | 108-20-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3         | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| Ethanol                            | 64-17-5          | 8260B             | ND                |                 | 100        | 52          | ug/L        | 1        |  |
| <b>Ethylbenzene</b>                | <b>100-41-4</b>  | <b>8260B</b>      | <b>3.4</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4        | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Naphthalene</b>                 | <b>91-20-3</b>   | <b>8260B</b>      | <b>32</b>         |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-butyl alcohol (TBA)           | 75-65-0          | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| <b>Toluene</b>                     | <b>108-88-3</b>  | <b>8260B</b>      | <b>0.41</b>       | <b>J</b>        | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Xylenes (total)</b>             | <b>1330-20-7</b> | <b>8260B</b>      | <b>56</b>         |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Surrogate                          | Q                | Run 1 % Recovery  | Acceptance Limits |                 |            |             |             |          |  |
| 1,2-Dichloroethane-d4              |                  | 92                | 70-130            |                 |            |             |             |          |  |
| Bromofluorobenzene                 |                  | 94                | 70-130            |                 |            |             |             |          |  |
| Toluene-d8                         |                  | 95                | 70-130            |                 |            |             |             |          |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method    | Analytical Method | Dilution   | Analysis Date   | Analyst     | Prep Date       | Batch       |          |  |
|-------------------------|----------------|-------------------|------------|-----------------|-------------|-----------------|-------------|----------|--|
| 1                       | 3520C          | 8270D             | 1          | 09/18/2019 1604 | JCG         | 09/16/2019 1512 | 29038       |          |  |
| Parameter               | CAS Number     | Analytical Method | Result     | Q               | LOQ         | DL              | Units       | Run      |  |
| <b>Acenaphthene</b>     | <b>83-32-9</b> | <b>8270D</b>      | <b>1.3</b> |                 | <b>0.80</b> | <b>0.20</b>     | <b>ug/L</b> | <b>1</b> |  |
| Acenaphthylene          | 208-96-8       | 8270D             | ND         |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Anthracene              | 120-12-7       | 8270D             | ND         |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Benzo(a)anthracene      | 56-55-3        | 8270D             | ND         |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Benzo(a)pyrene          | 50-32-8        | 8270D             | ND         |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Benzo(b)fluoranthene    | 205-99-2       | 8270D             | ND         |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Benzo(g,h,i)perylene    | 191-24-2       | 8270D             | ND         |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Benzo(k)fluoranthene    | 207-08-9       | 8270D             | ND         |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Chrysene                | 218-01-9       | 8270D             | ND         |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Dibenzo(a,h)anthracene  | 53-70-3        | 8270D             | ND         |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Fluoranthene            | 206-44-0       | 8270D             | ND         |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| <b>Fluorene</b>         | <b>86-73-7</b> | <b>8270D</b>      | <b>4.2</b> |                 | <b>0.80</b> | <b>0.20</b>     | <b>ug/L</b> | <b>1</b> |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5       | 8270D             | ND         |                 | 0.80        | 0.20            | ug/L        | 1        |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 RW-2

Matrix: Aqueous

Date Sampled: 09/11/2019 1121

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |      |       |     |
|------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/18/2019 1604   | JCG     | 09/16/2019 1512 | 29038 |      |       |     |
| Parameter        |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL   | Units | Run |
| Naphthalene      |             | 91-20-3           |                   | 8270D             | 18      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Phenanthrene     |             | 85-01-8           |                   | 8270D             | 4.6     |                 | 0.80  | 0.20 | ug/L  | 1   |
| Pyrene           |             | 129-00-0          |                   | 8270D             | 0.45    | J               | 0.80  | 0.20 | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |      |       |     |
| Nitrobenzene-d5  |             | 55                | 38-127            |                   |         |                 |       |      |       |     |
| 2-Fluorobiphenyl |             | 57                | 37-129            |                   |         |                 |       |      |       |     |
| Terphenyl-d14    |             | 77                | 10-148            |                   |         |                 |       |      |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |       |       |     |
|---------------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|-------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 2211   | DAL1    | 09/17/2019 1435 | 29156 |       |       |     |
| Parameter                 |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL    | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          |                   | 8011              | ND      |                 | 0.019 | 0.019 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |       |       |     |
| 1,1,1,2-Tetrachloroethane |             | 84                | 57-137            |                   |         |                 |       |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-1R

Matrix: Aqueous

Date Sampled: 09/11/2019 1212

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst    | Prep Date   | Batch       |          |  |
|------------------------------------|------------------|-------------------|-------------------|-----------------|------------|-------------|-------------|----------|--|
| 1                                  | 5030B            | 8260B             | 1                 | 09/12/2019 1845 | JJG        |             | 28739       |          |  |
| Parameter                          | CAS Number       | Analytical Method | Result            | Q               | LOQ        | DL          | Units       | Run      |  |
| tert-Amyl alcohol (TAA)            | 75-85-4          | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8         | 8260B             | ND                |                 | 10         | 0.42        | ug/L        | 1        |  |
| <b>Benzene</b>                     | <b>71-43-2</b>   | <b>8260B</b>      | <b>37</b>         |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-Butyl formate (TBF)           | 762-75-4         | 8260B             | ND                |                 | 5.0        | 2.0         | ug/L        | 1        |  |
| 1,2-Dichloroethane                 | 107-06-2         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Diisopropyl ether (IPE)            | 108-20-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3         | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| Ethanol                            | 64-17-5          | 8260B             | ND                |                 | 100        | 52          | ug/L        | 1        |  |
| <b>Ethylbenzene</b>                | <b>100-41-4</b>  | <b>8260B</b>      | <b>64</b>         |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4        | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Naphthalene</b>                 | <b>91-20-3</b>   | <b>8260B</b>      | <b>99</b>         |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-butyl alcohol (TBA)           | 75-65-0          | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| <b>Toluene</b>                     | <b>108-88-3</b>  | <b>8260B</b>      | <b>2.0</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Xylenes (total)</b>             | <b>1330-20-7</b> | <b>8260B</b>      | <b>220</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Surrogate                          | Q                | Run 1 % Recovery  | Acceptance Limits |                 |            |             |             |          |  |
| 1,2-Dichloroethane-d4              |                  | 87                | 70-130            |                 |            |             |             |          |  |
| Bromofluorobenzene                 |                  | 98                | 70-130            |                 |            |             |             |          |  |
| Toluene-d8                         |                  | 96                | 70-130            |                 |            |             |             |          |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method    | Analytical Method | Dilution    | Analysis Date   | Analyst     | Prep Date       | Batch       |          |  |
|-------------------------|----------------|-------------------|-------------|-----------------|-------------|-----------------|-------------|----------|--|
| 1                       | 3520C          | 8270D             | 1           | 09/18/2019 1627 | JCG         | 09/16/2019 1512 | 29038       |          |  |
| Parameter               | CAS Number     | Analytical Method | Result      | Q               | LOQ         | DL              | Units       | Run      |  |
| <b>Acenaphthene</b>     | <b>83-32-9</b> | <b>8270D</b>      | <b>0.63</b> | <b>J</b>        | <b>0.80</b> | <b>0.20</b>     | <b>ug/L</b> | <b>1</b> |  |
| Acenaphthylene          | 208-96-8       | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Anthracene              | 120-12-7       | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Benzo(a)anthracene      | 56-55-3        | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Benzo(a)pyrene          | 50-32-8        | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Benzo(b)fluoranthene    | 205-99-2       | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Benzo(g,h,i)perylene    | 191-24-2       | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Benzo(k)fluoranthene    | 207-08-9       | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Chrysene                | 218-01-9       | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Dibenzo(a,h)anthracene  | 53-70-3        | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| Fluoranthene            | 206-44-0       | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |
| <b>Fluorene</b>         | <b>86-73-7</b> | <b>8270D</b>      | <b>1.8</b>  |                 | <b>0.80</b> | <b>0.20</b>     | <b>ug/L</b> | <b>1</b> |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5       | 8270D             | ND          |                 | 0.80        | 0.20            | ug/L        | 1        |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-1R

Matrix: Aqueous

Date Sampled: 09/11/2019 1212

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |      |       |     |
|------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/18/2019 1627   | JCG     | 09/16/2019 1512 | 29038 |      |       |     |
| Parameter        |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL   | Units | Run |
| Naphthalene      |             | 91-20-3           |                   | 8270D             | 58      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Phenanthrene     |             | 85-01-8           |                   | 8270D             | 2.0     |                 | 0.80  | 0.20 | ug/L  | 1   |
| Pyrene           |             | 129-00-0          |                   | 8270D             | 0.71    | J               | 0.80  | 0.20 | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |      |       |     |
| Nitrobenzene-d5  |             | 57                | 38-127            |                   |         |                 |       |      |       |     |
| 2-Fluorobiphenyl |             | 52                | 37-129            |                   |         |                 |       |      |       |     |
| Terphenyl-d14    |             | 77                | 10-148            |                   |         |                 |       |      |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |       |       |     |
|---------------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|-------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 2221   | DAL1    | 09/17/2019 1435 | 29156 |       |       |     |
| Parameter                 |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL    | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          |                   | 8011              | ND      |                 | 0.019 | 0.019 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |       |       |     |
| 1,1,1,2-Tetrachloroethane |             | 91                | 57-137            |                   |         |                 |       |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: 12719 MW-3R

Matrix: Aqueous

Date Sampled: 09/11/2019 1300

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 10                | 09/13/2019 1941 | JJG     |           | 28860 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | 730               |                 | 200     | 80        | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | 12                | J               | 100     | 4.2       | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | 860               |                 | 10      | 4.0       | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 50      | 20        | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 10      | 4.0       | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | 130               |                 | 10      | 4.0       | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 200     | 80        | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | 1300              |                 | 1000    | 520       | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | 17                |                 | 10      | 4.0       | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 10      | 4.0       | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | 41                |                 | 10      | 4.0       | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | 28                |                 | 10      | 4.0       | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | 170               | J               | 200     | 80        | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 10      | 4.0       | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | 73                |                 | 10      | 4.0       | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 89                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 96                | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 96                | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/18/2019 1650 | JCG     | 09/16/2019 1512 | 29038 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-3R

Matrix: Aqueous

Date Sampled: 09/11/2019 1300

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/18/2019 1650 | JCG     | 09/16/2019 1512 | 29038 |

| Parameter    | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|--------------|------------|-------------------|--------|---|------|------|-------|-----|
| Naphthalene  | 91-20-3    | 8270D             | 18     |   | 0.80 | 0.20 | ug/L  | 1   |
| Phenanthrene | 85-01-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Pyrene       | 129-00-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

| Surrogate        | Q | Run 1 % Recovery | Acceptance Limits |
|------------------|---|------------------|-------------------|
| Nitrobenzene-d5  |   | 64               | 38-127            |
| 2-Fluorobiphenyl |   | 58               | 37-129            |
| Terphenyl-d14    |   | 60               | 10-148            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/17/2019 2232 | DAL1    | 09/17/2019 1435 | 29156 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL    | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|-------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.019 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 82               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 RW-3

Matrix: Aqueous

Date Sampled: 09/11/2019 1306

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst   | Prep Date | Batch       |          |  |
|---|------------------|-------------------|-------------------|-----------------|-----------|-----------|-------------|----------|--|
| 1   | 5030B            | 8260B             | 50                | 09/13/2019 1740 | JJG       |           | 28862       |          |  |
| Parameter                                 | CAS Number       | Analytical Method | Result            | Q               | LOQ       | DL        | Units       | Run      |  |
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | 2900              |                 | 1000      | 400       | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND                |                 | 500       | 21        | ug/L        | 1        |  |
| <b>Benzene</b>                            | <b>71-43-2</b>   | <b>8260B</b>      | <b>2400</b>       |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND                |                 | 250       | 100       | ug/L        | 1        |  |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| <b>Diisopropyl ether (IPE)</b>            | <b>108-20-3</b>  | <b>8260B</b>      | <b>160</b>        |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND                |                 | 1000      | 400       | ug/L        | 1        |  |
| Ethanol                                   | 64-17-5          | 8260B             | ND                |                 | 5000      | 2600      | ug/L        | 1        |  |
| <b>Ethylbenzene</b>                       | <b>100-41-4</b>  | <b>8260B</b>      | <b>60</b>         |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>61</b>         |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Naphthalene</b>                        | <b>91-20-3</b>   | <b>8260B</b>      | <b>34</b>         | <b>J</b>        | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | 460               | J               | 1000      | 400       | ug/L        | 1        |  |
| <b>Toluene</b>                            | <b>108-88-3</b>  | <b>8260B</b>      | <b>42</b>         | <b>J</b>        | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Xylenes (total)</b>                    | <b>1330-20-7</b> | <b>8260B</b>      | <b>1300</b>       |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| Surrogate                                 | Q                | Run 1 % Recovery  | Acceptance Limits |                 |           |           |             |          |  |
| 1,2-Dichloroethane-d4                     |                  | 93                | 70-130            |                 |           |           |             |          |  |
| Bromofluorobenzene                        |                  | 101               | 70-130            |                 |           |           |             |          |  |
| Toluene-d8                                |                  | 102               | 70-130            |                 |           |           |             |          |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/18/2019 1713 | JCG     | 09/16/2019 1512 | 29038 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 RW-3

Matrix: Aqueous

Date Sampled: 09/11/2019 1306

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch |     |
|------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/18/2019 1713 | JCG     | 09/16/2019 1512 | 29038 |     |
| Parameter        | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL              | Units | Run |
| Naphthalene      | 91-20-3     | 8270D             | 14                |                 | 0.80    | 0.20            | ug/L  | 1   |
| Phenanthrene     | 85-01-8     | 8270D             | ND                |                 | 0.80    | 0.20            | ug/L  | 1   |
| Pyrene           | 129-00-0    | 8270D             | ND                |                 | 0.80    | 0.20            | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |       |     |
| Nitrobenzene-d5  |             | 64                | 38-127            |                 |         |                 |       |     |
| 2-Fluorobiphenyl |             | 58                | 37-129            |                 |         |                 |       |     |
| Terphenyl-d14    |             | 69                | 10-148            |                 |         |                 |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 2243 | DAL1    | 09/17/2019 1435 | 29156 |     |
| Parameter                 | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL              | Units | Run |
| 1,2-Dibromoethane (EDB)   | 106-93-4    | 8011              | ND                |                 | 0.019   | 0.019           | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |       |     |
| 1,1,1,2-Tetrachloroethane |             | 78                | 57-137            |                 |         |                 |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 RW-3 dup

Matrix: Aqueous

Date Sampled: 09/11/2019 1308

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst   | Prep Date | Batch       |          |  |
|---|------------------|-------------------|-------------------|-----------------|-----------|-----------|-------------|----------|--|
| 1   | 5030B            | 8260B             | 50                | 09/13/2019 1803 | JJG       |           | 28862       |          |  |
| Parameter                                 | CAS Number       | Analytical Method | Result            | Q               | LOQ       | DL        | Units       | Run      |  |
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | 2800              |                 | 1000      | 400       | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND                |                 | 500       | 21        | ug/L        | 1        |  |
| <b>Benzene</b>                            | <b>71-43-2</b>   | <b>8260B</b>      | <b>2600</b>       |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND                |                 | 250       | 100       | ug/L        | 1        |  |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| <b>Diisopropyl ether (IPE)</b>            | <b>108-20-3</b>  | <b>8260B</b>      | <b>160</b>        |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND                |                 | 1000      | 400       | ug/L        | 1        |  |
| Ethanol                                   | 64-17-5          | 8260B             | ND                |                 | 5000      | 2600      | ug/L        | 1        |  |
| <b>Ethylbenzene</b>                       | <b>100-41-4</b>  | <b>8260B</b>      | <b>61</b>         |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>81</b>         |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Naphthalene</b>                        | <b>91-20-3</b>   | <b>8260B</b>      | <b>36</b>         | <b>J</b>        | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | 450               | J               | 1000      | 400       | ug/L        | 1        |  |
| <b>Toluene</b>                            | <b>108-88-3</b>  | <b>8260B</b>      | <b>37</b>         | <b>J</b>        | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Xylenes (total)</b>                    | <b>1330-20-7</b> | <b>8260B</b>      | <b>1300</b>       |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| Surrogate                                 | Q                | Run 1 % Recovery  | Acceptance Limits |                 |           |           |             |          |  |
| 1,2-Dichloroethane-d4                     |                  | 94                | 70-130            |                 |           |           |             |          |  |
| Bromofluorobenzene                        |                  | 101               | 70-130            |                 |           |           |             |          |  |
| Toluene-d8                                |                  | 102               | 70-130            |                 |           |           |             |          |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/18/2019 1736 | JCG     | 09/16/2019 1512 | 29038 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 RW-3 dup

Matrix: Aqueous

Date Sampled: 09/11/2019 1308

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch |       |     |
|------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|-------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/18/2019 1736 | JCG     | 09/16/2019 1512 | 29038 |       |     |
| Parameter        |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL    | Units | Run |
| Naphthalene      |             | 91-20-3           | 8270D             | 15              |         | 0.80            | 0.20  | ug/L  | 1   |
| Phenanthrene     |             | 85-01-8           | 8270D             | ND              |         | 0.80            | 0.20  | ug/L  | 1   |
| Pyrene           |             | 129-00-0          | 8270D             | ND              |         | 0.80            | 0.20  | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |       |       |     |
| Nitrobenzene-d5  |             | 66                | 38-127            |                 |         |                 |       |       |     |
| 2-Fluorobiphenyl |             | 57                | 37-129            |                 |         |                 |       |       |     |
| Terphenyl-d14    |             | 73                | 10-148            |                 |         |                 |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|-------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 2253 | DAL1    | 09/17/2019 1435 | 29156 |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL    | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.019 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |       |       |     |
| 1,1,1,2-Tetrachloroethane |             | 99                | 57-137            |                 |         |                 |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-16

Matrix: Aqueous

Date Sampled: 09/11/2019 1355

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst   | Prep Date | Batch       |          |  |
|---|------------------|-------------------|-------------------|-----------------|-----------|-----------|-------------|----------|--|
| 1   | 5030B            | 8260B             | 50                | 09/13/2019 1825 | JJG       |           | 28862       |          |  |
| Parameter                                 | CAS Number       | Analytical Method | Result            | Q               | LOQ       | DL        | Units       | Run      |  |
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | 2200              |                 | 1000      | 400       | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND                |                 | 500       | 21        | ug/L        | 1        |  |
| <b>Benzene</b>                            | <b>71-43-2</b>   | <b>8260B</b>      | <b>2500</b>       |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND                |                 | 250       | 100       | ug/L        | 1        |  |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| Diisopropyl ether (IPE)                   | 108-20-3         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND                |                 | 1000      | 400       | ug/L        | 1        |  |
| Ethanol                                   | 64-17-5          | 8260B             | ND                |                 | 5000      | 2600      | ug/L        | 1        |  |
| Ethylbenzene                              | 100-41-4         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>260</b>        |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Naphthalene</b>                        | <b>91-20-3</b>   | <b>8260B</b>      | <b>61</b>         |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | ND                |                 | 1000      | 400       | ug/L        | 1        |  |
| <b>Toluene</b>                            | <b>108-88-3</b>  | <b>8260B</b>      | <b>31</b>         | <b>J</b>        | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Xylenes (total)</b>                    | <b>1330-20-7</b> | <b>8260B</b>      | <b>1100</b>       |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| Surrogate                                 | Q                | Run 1 % Recovery  | Acceptance Limits |                 |           |           |             |          |  |
| 1,2-Dichloroethane-d4                     |                  | 92                | 70-130            |                 |           |           |             |          |  |
| Bromofluorobenzene                        |                  | 100               | 70-130            |                 |           |           |             |          |  |
| Toluene-d8                                |                  | 102               | 70-130            |                 |           |           |             |          |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/18/2019 1759 | JCG     | 09/16/2019 1512 | 29038 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-16

Matrix: Aqueous

Date Sampled: 09/11/2019 1355

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 3520C       | 8270D             | 1        | 09/18/2019 1759 | JCG     | 09/16/2019 1512 | 29038 |

| Parameter    | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|--------------|------------|-------------------|--------|---|------|------|-------|-----|
| Naphthalene  | 91-20-3    | 8270D             | 39     |   | 0.80 | 0.20 | ug/L  | 1   |
| Phenanthrene | 85-01-8    | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |
| Pyrene       | 129-00-0   | 8270D             | ND     |   | 0.80 | 0.20 | ug/L  | 1   |

| Surrogate        | Q | Run 1 % Recovery | Acceptance Limits |
|------------------|---|------------------|-------------------|
| Nitrobenzene-d5  |   | 51               | 38-127            |
| 2-Fluorobiphenyl |   | 54               | 37-129            |
| Terphenyl-d14    |   | 82               | 10-148            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/17/2019 2304 | DAL1    | 09/17/2019 1435 | 29156 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL    | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|-------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.019 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 91               | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: 12719 MW-16 dup

Matrix: Aqueous

Date Sampled: 09/11/2019 1357

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst   | Prep Date | Batch       |          |  |
|---|------------------|-------------------|-------------------|-----------------|-----------|-----------|-------------|----------|--|
| 1   | 5030B            | 8260B             | 50                | 09/13/2019 1847 | JJG       |           | 28862       |          |  |
| Parameter                                 | CAS Number       | Analytical Method | Result            | Q               | LOQ       | DL        | Units       | Run      |  |
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | 2100              |                 | 1000      | 400       | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND                |                 | 500       | 21        | ug/L        | 1        |  |
| <b>Benzene</b>                            | <b>71-43-2</b>   | <b>8260B</b>      | <b>2600</b>       |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND                |                 | 250       | 100       | ug/L        | 1        |  |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| Diisopropyl ether (IPE)                   | 108-20-3         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND                |                 | 1000      | 400       | ug/L        | 1        |  |
| Ethanol                                   | 64-17-5          | 8260B             | ND                |                 | 5000      | 2600      | ug/L        | 1        |  |
| Ethylbenzene                              | 100-41-4         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>270</b>        |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Naphthalene</b>                        | <b>91-20-3</b>   | <b>8260B</b>      | <b>67</b>         |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | ND                |                 | 1000      | 400       | ug/L        | 1        |  |
| <b>Toluene</b>                            | <b>108-88-3</b>  | <b>8260B</b>      | <b>33</b>         | <b>J</b>        | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Xylenes (total)</b>                    | <b>1330-20-7</b> | <b>8260B</b>      | <b>1100</b>       |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| Surrogate                                 | Q                | Run 1 % Recovery  | Acceptance Limits |                 |           |           |             |          |  |
| 1,2-Dichloroethane-d4                     |                  | 93                | 70-130            |                 |           |           |             |          |  |
| Bromofluorobenzene                        |                  | 103               | 70-130            |                 |           |           |             |          |  |
| Toluene-d8                                |                  | 103               | 70-130            |                 |           |           |             |          |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/18/2019 1823 | JCG     | 09/16/2019 1512 | 29038 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 MW-16 dup

Matrix: Aqueous

Date Sampled: 09/11/2019 1357

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch |     |
|------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/18/2019 1823 | JCG     | 09/16/2019 1512 | 29038 |     |
| Parameter        | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL              | Units | Run |
| Naphthalene      | 91-20-3     | 8270D             | 40                |                 | 0.80    | 0.20            | ug/L  | 1   |
| Phenanthrene     | 85-01-8     | 8270D             | ND                |                 | 0.80    | 0.20            | ug/L  | 1   |
| Pyrene           | 129-00-0    | 8270D             | ND                |                 | 0.80    | 0.20            | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |       |     |
| Nitrobenzene-d5  |             | 52                | 38-127            |                 |         |                 |       |     |
| 2-Fluorobiphenyl |             | 55                | 37-129            |                 |         |                 |       |     |
| Terphenyl-d14    |             | 81                | 10-148            |                 |         |                 |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 2314 | DAL1    | 09/17/2019 1435 | 29156 |     |
| Parameter                 | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL              | Units | Run |
| 1,2-Dibromoethane (EDB)   | 106-93-4    | 8011              | ND                |                 | 0.019   | 0.019           | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |       |     |
| 1,1,1,2-Tetrachloroethane |             | 98                | 57-137            |                 |         |                 |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 DW-2

Matrix: Aqueous

Date Sampled: 09/11/2019 1412

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst    | Prep Date   | Batch       |          |  |
|---|------------------|-------------------|-------------------|-----------------|------------|-------------|-------------|----------|--|
| 1   | 5030B            | 8260B             | 1                 | 09/13/2019 1310 | JJG        |             | 28862       |          |  |
| Parameter                                 | CAS Number       | Analytical Method | Result            | Q               | LOQ        | DL          | Units       | Run      |  |
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND                |                 | 10         | 0.42        | ug/L        | 1        |  |
| Benzene                                   | 71-43-2          | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND                |                 | 5.0        | 2.0         | ug/L        | 1        |  |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Diisopropyl ether (IPE)                   | 108-20-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| Ethanol                                   | 64-17-5          | 8260B             | ND                |                 | 100        | 52          | ug/L        | 1        |  |
| Ethylbenzene                              | 100-41-4         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>0.68</b>       | <b>J</b>        | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Naphthalene                               | 91-20-3          | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| Toluene                                   | 108-88-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Xylenes (total)                           | 1330-20-7        | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Surrogate                                 | Q                | Run 1 % Recovery  | Acceptance Limits |                 |            |             |             |          |  |
| 1,2-Dichloroethane-d4                     |                  | 93                | 70-130            |                 |            |             |             |          |  |
| Bromofluorobenzene                        |                  | 102               | 70-130            |                 |            |             |             |          |  |
| Toluene-d8                                |                  | 104               | 70-130            |                 |            |             |             |          |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/18/2019 1846 | JCG     | 09/16/2019 1512 | 29038 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 DW-2

Matrix: Aqueous

Date Sampled: 09/11/2019 1412

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |      |       |     |
|------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/18/2019 1846   | JCG     | 09/16/2019 1512 | 29038 |      |       |     |
| Parameter        |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL   | Units | Run |
| Naphthalene      |             | 91-20-3           |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Phenanthrene     |             | 85-01-8           |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Pyrene           |             | 129-00-0          |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |      |       |     |
| Nitrobenzene-d5  |             | 54                | 38-127            |                   |         |                 |       |      |       |     |
| 2-Fluorobiphenyl |             | 55                | 37-129            |                   |         |                 |       |      |       |     |
| Terphenyl-d14    |             | 72                | 10-148            |                   |         |                 |       |      |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |       |       |     |
|---------------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|-------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 2325   | DAL1    | 09/17/2019 1435 | 29156 |       |       |     |
| Parameter                 |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL    | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          |                   | 8011              | ND      |                 | 0.019 | 0.019 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |       |       |     |
| 1,1,1,2-Tetrachloroethane |             | 72                | 57-137            |                   |         |                 |       |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 SW-1

Matrix: Aqueous

Date Sampled: 09/11/2019 1444

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 09/13/2019 1333 | JJG     |           | 28862 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 92                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 100               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 104               | 70-130            |                 |         |           |       |     |  |

## Semivolatile Organic Compounds by GC/MS

| Run                     | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |     |  |
|-------------------------|-------------|-------------------|----------|-----------------|---------|-----------------|-------|-----|--|
| 1                       | 3520C       | 8270D             | 1        | 09/18/2019 1909 | JCG     | 09/16/2019 1512 | 29038 |     |  |
| Parameter               | CAS Number  | Analytical Method | Result   | Q               | LOQ     | DL              | Units | Run |  |
| Acenaphthene            | 83-32-9     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Acenaphthylene          | 208-96-8    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Anthracene              | 120-12-7    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)anthracene      | 56-55-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(a)pyrene          | 50-32-8     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(b)fluoranthene    | 205-99-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(g,h,i)perylene    | 191-24-2    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Benzo(k)fluoranthene    | 207-08-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Chrysene                | 218-01-9    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Dibenzo(a,h)anthracene  | 53-70-3     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluoranthene            | 206-44-0    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Fluorene                | 86-73-7     | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |
| Indeno(1,2,3-c,d)pyrene | 193-39-5    | 8270D             | ND       |                 | 0.80    | 0.20            | ug/L  | 1   |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 SW-1

Matrix: Aqueous

Date Sampled: 09/11/2019 1444

Date Received: 09/11/2019

## Semivolatile Organic Compounds by GC/MS

| Run              | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |      |       |     |
|------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|------|-------|-----|
| 1                | 3520C       | 8270D             | 1                 | 09/18/2019 1909   | JCG     | 09/16/2019 1512 | 29038 |      |       |     |
| Parameter        |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL   | Units | Run |
| Naphthalene      |             | 91-20-3           |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Phenanthrene     |             | 85-01-8           |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Pyrene           |             | 129-00-0          |                   | 8270D             | ND      |                 | 0.80  | 0.20 | ug/L  | 1   |
| Surrogate        | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |      |       |     |
| Nitrobenzene-d5  |             | 51                | 38-127            |                   |         |                 |       |      |       |     |
| 2-Fluorobiphenyl |             | 54                | 37-129            |                   |         |                 |       |      |       |     |
| Terphenyl-d14    |             | 49                | 10-148            |                   |         |                 |       |      |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date     | Analyst | Prep Date       | Batch |       |       |     |
|---------------------------|-------------|-------------------|-------------------|-------------------|---------|-----------------|-------|-------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/17/2019 2335   | DAL1    | 09/17/2019 1435 | 29156 |       |       |     |
| Parameter                 |             | CAS Number        |                   | Analytical Method | Result  | Q               | LOQ   | DL    | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          |                   | 8011              | ND      |                 | 0.019 | 0.019 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                   |         |                 |       |       |       |     |
| 1,1,1,2-Tetrachloroethane |             | 99                | 57-137            |                   |         |                 |       |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 Trip Blank

Matrix: Aqueous

Date Sampled: 09/10/2019

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 09/13/2019 1203 | JJG     |           | 28862 |
| 2   | 5030B       | 8260B             | 1        | 09/17/2019 2304 | ALR1    |           | 29228 |

| Parameter                          | CAS Number     | Analytical Method | Result    | Q        | LOQ       | DL         | Units       | Run      |
|------------------------------------|----------------|-------------------|-----------|----------|-----------|------------|-------------|----------|
| tert-Amyl alcohol (TAA)            | 75-85-4        | 8260B             | ND        |          | 20        | 8.0        | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)      | 994-05-8       | 8260B             | ND        |          | 10        | 0.42       | ug/L        | 1        |
| Benzene                            | 71-43-2        | 8260B             | ND        |          | 1.0       | 0.40       | ug/L        | 1        |
| tert-Butyl formate (TBF)           | 762-75-4       | 8260B             | ND        |          | 5.0       | 2.0        | ug/L        | 1        |
| 1,2-Dichloroethane                 | 107-06-2       | 8260B             | ND        |          | 1.0       | 0.40       | ug/L        | 1        |
| Diisopropyl ether (IPE)            | 108-20-3       | 8260B             | ND        |          | 1.0       | 0.40       | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol             | 624-95-3       | 8260B             | ND        |          | 20        | 8.0        | ug/L        | 1        |
| Ethanol                            | 64-17-5        | 8260B             | ND        |          | 100       | 52         | ug/L        | 1        |
| Ethylbenzene                       | 100-41-4       | 8260B             | ND        |          | 1.0       | 0.40       | ug/L        | 1        |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3       | 8260B             | ND        |          | 1.0       | 0.40       | ug/L        | 1        |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4      | 8260B             | ND        |          | 1.0       | 0.40       | ug/L        | 1        |
| Naphthalene                        | 91-20-3        | 8260B             | ND        |          | 1.0       | 0.40       | ug/L        | 1        |
| <b>tert-butyl alcohol (TBA)</b>    | <b>75-65-0</b> | <b>8260B</b>      | <b>15</b> | <b>J</b> | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>2</b> |
| Toluene                            | 108-88-3       | 8260B             | ND        |          | 1.0       | 0.40       | ug/L        | 1        |
| Xylenes (total)                    | 1330-20-7      | 8260B             | ND        |          | 1.0       | 0.40       | ug/L        | 1        |

| Surrogate             | Run 1 |            |                   | Run 2 |            |                   |
|-----------------------|-------|------------|-------------------|-------|------------|-------------------|
|                       | Q     | % Recovery | Acceptance Limits | Q     | % Recovery | Acceptance Limits |
| 1,2-Dichloroethane-d4 |       | 95         | 70-130            |       | 83         | 70-130            |
| Bromofluorobenzene    |       | 100        | 70-130            |       | 91         | 70-130            |
| Toluene-d8            |       | 106        | 70-130            |       | 93         | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: 12719 Trip Blank

Matrix: Aqueous

Date Sampled: 09/10/2019

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 09/13/2019 1225 | JJG     |           | 28862 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 93               | 70-130            |
| Bromofluorobenzene    |   | 97               | 70-130            |
| Toluene-d8            |   | 103              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: 12719 Trip Blank

Matrix: Aqueous

Date Sampled: 09/10/2019

Date Received: 09/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 09/13/2019 1247 | JJG     |           | 28862 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 93               | 70-130            |
| Bromofluorobenzene    |   | 99               | 70-130            |
| Toluene-d8            |   | 103              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## QC Summary

## Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ28737-001

Matrix: Aqueous

Batch: 28737

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Result | Q | Dil | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|---|-----|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |   | 1   | 20  | 8.0  | ug/L  | 09/12/2019 1020 |
| tert-Amyl methyl ether (TAME)      | ND     |   | 1   | 10  | 0.42 | ug/L  | 09/12/2019 1020 |
| Benzene                            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/12/2019 1020 |
| tert-Butyl formate (TBF)           | ND     |   | 1   | 5.0 | 2.0  | ug/L  | 09/12/2019 1020 |
| 1,2-Dichloroethane                 | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/12/2019 1020 |
| Diisopropyl ether (IPE)            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/12/2019 1020 |
| 3,3-Dimethyl-1-butanol             | ND     |   | 1   | 20  | 8.0  | ug/L  | 09/12/2019 1020 |
| Ethanol                            | ND     |   | 1   | 100 | 52   | ug/L  | 09/12/2019 1020 |
| Ethylbenzene                       | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/12/2019 1020 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/12/2019 1020 |
| Methyl tertiary butyl ether (MTBE) | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/12/2019 1020 |
| Naphthalene                        | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/12/2019 1020 |
| tert-butyl alcohol (TBA)           | ND     |   | 1   | 20  | 8.0  | ug/L  | 09/12/2019 1020 |
| Toluene                            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/12/2019 1020 |
| Xylenes (total)                    | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/12/2019 1020 |

| Surrogate             | Q | % Rec | Acceptance Limit |
|-----------------------|---|-------|------------------|
| 1,2-Dichloroethane-d4 |   | 100   | 70-130           |
| Bromofluorobenzene    |   | 99    | 70-130           |
| Toluene-d8            |   | 98    | 70-130           |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ28737-002

Matrix: Aqueous

Batch: 28737

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 1100          |   | 1   | 109   | 70-130      | 09/12/2019 0936 |
| tert-Amyl methyl ether (TAME)      | 50                  | 52            |   | 1   | 103   | 70-130      | 09/12/2019 0936 |
| Benzene                            | 50                  | 53            |   | 1   | 105   | 70-130      | 09/12/2019 0936 |
| tert-Butyl formate (TBF)           | 250                 | 280           |   | 1   | 113   | 70-130      | 09/12/2019 0936 |
| 1,2-Dichloroethane                 | 50                  | 53            |   | 1   | 106   | 70-130      | 09/12/2019 0936 |
| Diisopropyl ether (IPE)            | 50                  | 57            |   | 1   | 113   | 70-130      | 09/12/2019 0936 |
| 3,3-Dimethyl-1-butanol             | 1000                | 1100          |   | 1   | 108   | 70-130      | 09/12/2019 0936 |
| Ethanol                            | 5000                | 6000          |   | 1   | 120   | 70-130      | 09/12/2019 0936 |
| Ethylbenzene                       | 50                  | 53            |   | 1   | 106   | 70-130      | 09/12/2019 0936 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 56            |   | 1   | 112   | 70-130      | 09/12/2019 0936 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 51            |   | 1   | 102   | 70-130      | 09/12/2019 0936 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ28737-002

Matrix: Aqueous

Batch: 28737

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|--------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| Naphthalene              | 50                  | 50            |                  | 1   | 100   | 70-130      | 09/12/2019 0936 |
| tert-butyl alcohol (TBA) | 1000                | 1100          |                  | 1   | 109   | 70-130      | 09/12/2019 0936 |
| Toluene                  | 50                  | 52            |                  | 1   | 103   | 70-130      | 09/12/2019 0936 |
| Xylenes (total)          | 100                 | 110           |                  | 1   | 106   | 70-130      | 09/12/2019 0936 |
| Surrogate                | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4    |                     | 104           | 70-130           |     |       |             |                 |
| Bromofluorobenzene       |                     | 97            | 70-130           |     |       |             |                 |
| Toluene-d8               |                     | 97            | 70-130           |     |       |             |                 |

## Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ28739-001

Matrix: Aqueous

Batch: 28739

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/12/2019 1044 |
| tert-Amyl methyl ether (TAME)      | ND     |       | 1                | 10  | 0.42 | ug/L  | 09/12/2019 1044 |
| Benzene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/12/2019 1044 |
| tert-Butyl formate (TBF)           | ND     |       | 1                | 5.0 | 2.0  | ug/L  | 09/12/2019 1044 |
| 1,2-Dichloroethane                 | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/12/2019 1044 |
| Diisopropyl ether (IPE)            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/12/2019 1044 |
| 3,3-Dimethyl-1-butanol             | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/12/2019 1044 |
| Ethanol                            | ND     |       | 1                | 100 | 52   | ug/L  | 09/12/2019 1044 |
| Ethylbenzene                       | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/12/2019 1044 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/12/2019 1044 |
| Methyl tertiary butyl ether (MTBE) | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/12/2019 1044 |
| Naphthalene                        | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/12/2019 1044 |
| tert-butyl alcohol (TBA)           | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/12/2019 1044 |
| Toluene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/12/2019 1044 |
| Xylenes (total)                    | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/12/2019 1044 |
| Surrogate                          | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4              |        | 90    | 70-130           |     |      |       |                 |
| Bromofluorobenzene                 |        | 91    | 70-130           |     |      |       |                 |
| Toluene-d8                         |        | 97    | 70-130           |     |      |       |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ28739-002

Matrix: Aqueous

Batch: 28739

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 1200          |                  | 1   | 117   | 70-130      | 09/12/2019 0954 |
| tert-Amyl methyl ether (TAME)      | 50                  | 54            |                  | 1   | 108   | 70-130      | 09/12/2019 0954 |
| Benzene                            | 50                  | 50            |                  | 1   | 99    | 70-130      | 09/12/2019 0954 |
| tert-Butyl formate (TBF)           | 250                 | 270           |                  | 1   | 108   | 70-130      | 09/12/2019 0954 |
| 1,2-Dichloroethane                 | 50                  | 51            |                  | 1   | 101   | 70-130      | 09/12/2019 0954 |
| Diisopropyl ether (IPE)            | 50                  | 56            |                  | 1   | 112   | 70-130      | 09/12/2019 0954 |
| 3,3-Dimethyl-1-butanol             | 1000                | 1200          |                  | 1   | 122   | 70-130      | 09/12/2019 0954 |
| Ethanol                            | 5000                | 5900          |                  | 1   | 117   | 70-130      | 09/12/2019 0954 |
| Ethylbenzene                       | 50                  | 53            |                  | 1   | 106   | 70-130      | 09/12/2019 0954 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 55            |                  | 1   | 110   | 70-130      | 09/12/2019 0954 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 51            |                  | 1   | 103   | 70-130      | 09/12/2019 0954 |
| Naphthalene                        | 50                  | 56            |                  | 1   | 112   | 70-130      | 09/12/2019 0954 |
| tert-butyl alcohol (TBA)           | 1000                | 1100          |                  | 1   | 109   | 70-130      | 09/12/2019 0954 |
| Toluene                            | 50                  | 52            |                  | 1   | 104   | 70-130      | 09/12/2019 0954 |
| Xylenes (total)                    | 100                 | 110           |                  | 1   | 108   | 70-130      | 09/12/2019 0954 |
| Surrogate                          | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4              |                     | 85            | 70-130           |     |       |             |                 |
| Bromofluorobenzene                 |                     | 92            | 70-130           |     |       |             |                 |
| Toluene-d8                         |                     | 92            | 70-130           |     |       |             |                 |

## Volatile Organic Compounds by GC/MS - MS

Sample ID: UI11080-016MS

Matrix: Aqueous

Batch: 28739

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 320                  | 20000               | 22000         |   | 20  | 107   | 70-130      | 09/12/2019 1936 |
| tert-Amyl methyl ether (TAME)      | ND                   | 1000                | 1100          |   | 20  | 105   | 70-130      | 09/12/2019 1936 |
| Benzene                            | 1300                 | 1000                | 2200          |   | 20  | 82    | 70-130      | 09/12/2019 1936 |
| tert-Butyl formate (TBF)           | ND                   | 5000                | 3000          | N | 20  | 61    | 70-130      | 09/12/2019 1936 |
| 1,2-Dichloroethane                 | ND                   | 1000                | 950           |   | 20  | 95    | 70-130      | 09/12/2019 1936 |
| Diisopropyl ether (IPE)            | ND                   | 1000                | 1100          |   | 20  | 110   | 70-130      | 09/12/2019 1936 |
| 3,3-Dimethyl-1-butanol             | ND                   | 20000               | 23000         |   | 20  | 117   | 70-130      | 09/12/2019 1936 |
| Ethanol                            | ND                   | 100000              | 100000        |   | 20  | 105   | 70-130      | 09/12/2019 1936 |
| Ethylbenzene                       | 120                  | 1000                | 1100          |   | 20  | 103   | 70-130      | 09/12/2019 1936 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 1000                | 1000          |   | 20  | 105   | 70-130      | 09/12/2019 1936 |
| Methyl tertiary butyl ether (MTBE) | 24                   | 1000                | 1000          |   | 20  | 100   | 70-130      | 09/12/2019 1936 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MS

Sample ID: UI11080-016MS

Matrix: Aqueous

Batch: 28739

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|--------------------------|----------------------|---------------------|------------------|---|-----|-------|-------------|-----------------|
| Naphthalene              | 13                   | 1000                | 1100             |   | 20  | 108   | 70-130      | 09/12/2019 1936 |
| tert-butyl alcohol (TBA) | ND                   | 20000               | 22000            |   | 20  | 110   | 70-130      | 09/12/2019 1936 |
| Toluene                  | 910                  | 1000                | 1800             |   | 20  | 92    | 70-130      | 09/12/2019 1936 |
| Xylenes (total)          | 1500                 | 2000                | 3400             |   | 20  | 98    | 70-130      | 09/12/2019 1936 |
| Surrogate                | Q                    | % Rec               | Acceptance Limit |   |     |       |             |                 |
| 1,2-Dichloroethane-d4    |                      | 81                  | 70-130           |   |     |       |             |                 |
| Bromofluorobenzene       |                      | 93                  | 70-130           |   |     |       |             |                 |
| Toluene-d8               |                      | 93                  | 70-130           |   |     |       |             |                 |

## Volatile Organic Compounds by GC/MS - MSD

Sample ID: UI11080-016MD

Matrix: Aqueous

Batch: 28739

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % RPD  | % Rec Limit | % RPD Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|------------------|---|-----|-------|--------|-------------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 320                  | 20000               | 23000            |   | 20  | 111   | 3.8    | 70-130      | 20          | 09/12/2019 2001 |
| tert-Amyl methyl ether (TAME)      | ND                   | 1000                | 1100             |   | 20  | 109   | 3.8    | 70-130      | 20          | 09/12/2019 2001 |
| Benzene                            | 1300                 | 1000                | 2200             |   | 20  | 85    | 1.8    | 70-130      | 20          | 09/12/2019 2001 |
| tert-Butyl formate (TBF)           | ND                   | 5000                | 3000             | N | 20  | 61    | 0.0033 | 70-130      | 20          | 09/12/2019 2001 |
| 1,2-Dichloroethane                 | ND                   | 1000                | 980              |   | 20  | 98    | 2.7    | 70-130      | 20          | 09/12/2019 2001 |
| Diisopropyl ether (IPE)            | ND                   | 1000                | 1100             |   | 20  | 114   | 4.2    | 70-130      | 20          | 09/12/2019 2001 |
| 3,3-Dimethyl-1-butanol             | ND                   | 20000               | 25000            |   | 20  | 123   | 5.2    | 70-130      | 20          | 09/12/2019 2001 |
| Ethanol                            | ND                   | 100000              | 110000           |   | 20  | 114   | 8.0    | 70-130      | 20          | 09/12/2019 2001 |
| Ethylbenzene                       | 120                  | 1000                | 1200             |   | 20  | 106   | 2.5    | 70-130      | 20          | 09/12/2019 2001 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 1000                | 1100             |   | 20  | 110   | 4.4    | 70-130      | 20          | 09/12/2019 2001 |
| Methyl tertiary butyl ether (MTBE) | 24                   | 1000                | 1100             |   | 20  | 104   | 3.9    | 70-130      | 20          | 09/12/2019 2001 |
| Naphthalene                        | 13                   | 1000                | 1200             |   | 20  | 117   | 7.3    | 70-130      | 20          | 09/12/2019 2001 |
| tert-butyl alcohol (TBA)           | ND                   | 20000               | 23000            |   | 20  | 115   | 3.7    | 70-130      | 20          | 09/12/2019 2001 |
| Toluene                            | 910                  | 1000                | 1900             |   | 20  | 98    | 3.0    | 70-130      | 20          | 09/12/2019 2001 |
| Xylenes (total)                    | 1500                 | 2000                | 3500             |   | 20  | 103   | 3.0    | 70-130      | 20          | 09/12/2019 2001 |
| Surrogate                          | Q                    | % Rec               | Acceptance Limit |   |     |       |        |             |             |                 |
| 1,2-Dichloroethane-d4              |                      | 81                  | 70-130           |   |     |       |        |             |             |                 |
| Bromofluorobenzene                 |                      | 93                  | 70-130           |   |     |       |        |             |             |                 |
| Toluene-d8                         |                      | 95                  | 70-130           |   |     |       |        |             |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ28860-001

Matrix: Aqueous

Batch: 28860

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Result | Q | Dil | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|---|-----|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |   | 1   | 20  | 8.0  | ug/L  | 09/13/2019 1100 |
| tert-Amyl methyl ether (TAME)      | ND     |   | 1   | 10  | 0.42 | ug/L  | 09/13/2019 1100 |
| Benzene                            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/13/2019 1100 |
| tert-Butyl formate (TBF)           | ND     |   | 1   | 5.0 | 2.0  | ug/L  | 09/13/2019 1100 |
| 1,2-Dichloroethane                 | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/13/2019 1100 |
| Diisopropyl ether (IPE)            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/13/2019 1100 |
| 3,3-Dimethyl-1-butanol             | ND     |   | 1   | 20  | 8.0  | ug/L  | 09/13/2019 1100 |
| Ethanol                            | ND     |   | 1   | 100 | 52   | ug/L  | 09/13/2019 1100 |
| Ethylbenzene                       | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/13/2019 1100 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/13/2019 1100 |
| Methyl tertiary butyl ether (MTBE) | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/13/2019 1100 |
| Naphthalene                        | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/13/2019 1100 |
| tert-butyl alcohol (TBA)           | ND     |   | 1   | 20  | 8.0  | ug/L  | 09/13/2019 1100 |
| Toluene                            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/13/2019 1100 |
| Xylenes (total)                    | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/13/2019 1100 |

| Surrogate             | Q | % Rec | Acceptance Limit |
|-----------------------|---|-------|------------------|
| 1,2-Dichloroethane-d4 |   | 87    | 70-130           |
| Bromofluorobenzene    |   | 93    | 70-130           |
| Toluene-d8            |   | 96    | 70-130           |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ28860-002

Matrix: Aqueous

Batch: 28860

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 1100          |   | 1   | 112   | 70-130      | 09/13/2019 1009 |
| tert-Amyl methyl ether (TAME)      | 50                  | 55            |   | 1   | 109   | 70-130      | 09/13/2019 1009 |
| Benzene                            | 50                  | 49            |   | 1   | 98    | 70-130      | 09/13/2019 1009 |
| tert-Butyl formate (TBF)           | 250                 | 270           |   | 1   | 106   | 70-130      | 09/13/2019 1009 |
| 1,2-Dichloroethane                 | 50                  | 50            |   | 1   | 99    | 70-130      | 09/13/2019 1009 |
| Diisopropyl ether (IPE)            | 50                  | 56            |   | 1   | 111   | 70-130      | 09/13/2019 1009 |
| 3,3-Dimethyl-1-butanol             | 1000                | 1200          |   | 1   | 118   | 70-130      | 09/13/2019 1009 |
| Ethanol                            | 5000                | 5700          |   | 1   | 114   | 70-130      | 09/13/2019 1009 |
| Ethylbenzene                       | 50                  | 53            |   | 1   | 105   | 70-130      | 09/13/2019 1009 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 55            |   | 1   | 110   | 70-130      | 09/13/2019 1009 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 52            |   | 1   | 104   | 70-130      | 09/13/2019 1009 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ28860-002

Matrix: Aqueous

Batch: 28860

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|--------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| Naphthalene              | 50                  | 57            |                  | 1   | 113   | 70-130      | 09/13/2019 1009 |
| tert-butyl alcohol (TBA) | 1000                | 1100          |                  | 1   | 106   | 70-130      | 09/13/2019 1009 |
| Toluene                  | 50                  | 52            |                  | 1   | 103   | 70-130      | 09/13/2019 1009 |
| Xylenes (total)          | 100                 | 110           |                  | 1   | 107   | 70-130      | 09/13/2019 1009 |
| Surrogate                | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4    |                     | 85            | 70-130           |     |       |             |                 |
| Bromofluorobenzene       |                     | 93            | 70-130           |     |       |             |                 |
| Toluene-d8               |                     | 93            | 70-130           |     |       |             |                 |

## Volatile Organic Compounds by GC/MS - MS

Sample ID: UI11080-031MS

Matrix: Aqueous

Batch: 28860

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|------------------|---|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 730                  | 10000               | 12000            |   | 10  | 117   | 70-130      | 09/13/2019 2006 |
| tert-Amyl methyl ether (TAME)      | 12                   | 500                 | 550              |   | 10  | 108   | 70-130      | 09/13/2019 2006 |
| Benzene                            | 860                  | 500                 | 1300             |   | 10  | 85    | 70-130      | 09/13/2019 2006 |
| tert-Butyl formate (TBF)           | ND                   | 2500                | 900              | N | 10  | 36    | 70-130      | 09/13/2019 2006 |
| 1,2-Dichloroethane                 | ND                   | 500                 | 510              |   | 10  | 102   | 70-130      | 09/13/2019 2006 |
| Diisopropyl ether (IPE)            | 130                  | 500                 | 690              |   | 10  | 112   | 70-130      | 09/13/2019 2006 |
| 3,3-Dimethyl-1-butanol             | ND                   | 10000               | 12000            |   | 10  | 123   | 70-130      | 09/13/2019 2006 |
| Ethanol                            | 1300                 | 50000               | 61000            |   | 10  | 120   | 70-130      | 09/13/2019 2006 |
| Ethylbenzene                       | 17                   | 500                 | 550              |   | 10  | 106   | 70-130      | 09/13/2019 2006 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 500                 | 550              |   | 10  | 110   | 70-130      | 09/13/2019 2006 |
| Methyl tertiary butyl ether (MTBE) | 41                   | 500                 | 580              |   | 10  | 107   | 70-130      | 09/13/2019 2006 |
| Naphthalene                        | 28                   | 500                 | 580              |   | 10  | 110   | 70-130      | 09/13/2019 2006 |
| tert-butyl alcohol (TBA)           | 170                  | 10000               | 13000            |   | 10  | 125   | 70-130      | 09/13/2019 2006 |
| Toluene                            | ND                   | 500                 | 520              |   | 10  | 104   | 70-130      | 09/13/2019 2006 |
| Xylenes (total)                    | 73                   | 1000                | 1200             |   | 10  | 108   | 70-130      | 09/13/2019 2006 |
| Surrogate                          | Q                    | % Rec               | Acceptance Limit |   |     |       |             |                 |
| 1,2-Dichloroethane-d4              |                      | 84                  | 70-130           |   |     |       |             |                 |
| Bromofluorobenzene                 |                      | 93                  | 70-130           |   |     |       |             |                 |
| Toluene-d8                         |                      | 92                  | 70-130           |   |     |       |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



## Volatile Organic Compounds by GC/MS - MSD

Sample ID: UI11080-031MD

Matrix: Aqueous

Batch: 28860

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)           | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|-------------------------|---|-----|-------|-------|-------------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 730                  | 10000               | 13000                   |   | 10  | 120   | 1.9   | 70-130      | 20          | 09/13/2019 2031 |
| tert-Amyl methyl ether (TAME)      | 12                   | 500                 | 560                     |   | 10  | 109   | 1.0   | 70-130      | 20          | 09/13/2019 2031 |
| Benzene                            | 860                  | 500                 | 1300                    |   | 10  | 86    | 0.19  | 70-130      | 20          | 09/13/2019 2031 |
| tert-Butyl formate (TBF)           | ND                   | 2500                | 770                     | N | 10  | 31    | 16    | 70-130      | 20          | 09/13/2019 2031 |
| 1,2-Dichloroethane                 | ND                   | 500                 | 510                     |   | 10  | 102   | 0.38  | 70-130      | 20          | 09/13/2019 2031 |
| Diisopropyl ether (IPE)            | 130                  | 500                 | 700                     |   | 10  | 114   | 1.1   | 70-130      | 20          | 09/13/2019 2031 |
| 3,3-Dimethyl-1-butanol             | ND                   | 10000               | 13000                   |   | 10  | 128   | 3.6   | 70-130      | 20          | 09/13/2019 2031 |
| Ethanol                            | 1300                 | 50000               | 67000                   | N | 10  | 131   | 8.4   | 70-130      | 20          | 09/13/2019 2031 |
| Ethylbenzene                       | 17                   | 500                 | 550                     |   | 10  | 106   | 0.39  | 70-130      | 20          | 09/13/2019 2031 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 500                 | 560                     |   | 10  | 112   | 1.4   | 70-130      | 20          | 09/13/2019 2031 |
| Methyl tertiary butyl ether (MTBE) | 41                   | 500                 | 590                     |   | 10  | 109   | 1.5   | 70-130      | 20          | 09/13/2019 2031 |
| Naphthalene                        | 28                   | 500                 | 610                     |   | 10  | 117   | 5.4   | 70-130      | 20          | 09/13/2019 2031 |
| tert-butyl alcohol (TBA)           | 170                  | 10000               | 13000                   |   | 10  | 129   | 3.1   | 70-130      | 20          | 09/13/2019 2031 |
| Toluene                            | ND                   | 500                 | 520                     |   | 10  | 105   | 0.79  | 70-130      | 20          | 09/13/2019 2031 |
| Xylenes (total)                    | 73                   | 1000                | 1100                    |   | 10  | 108   | 0.42  | 70-130      | 20          | 09/13/2019 2031 |
| <b>Surrogate</b>                   | <b>Q</b>             | <b>% Rec</b>        | <b>Acceptance Limit</b> |   |     |       |       |             |             |                 |
| 1,2-Dichloroethane-d4              |                      | 84                  | 70-130                  |   |     |       |       |             |             |                 |
| Bromofluorobenzene                 |                      | 94                  | 70-130                  |   |     |       |       |             |             |                 |
| Toluene-d8                         |                      | 93                  | 70-130                  |   |     |       |       |             |             |                 |

## Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ28862-001

Matrix: Aqueous

Batch: 28862

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Result | Q | Dil | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|---|-----|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |   | 1   | 20  | 8.0  | ug/L  | 09/13/2019 1118 |
| tert-Amyl methyl ether (TAME)      | ND     |   | 1   | 10  | 0.42 | ug/L  | 09/13/2019 1118 |
| Benzene                            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/13/2019 1118 |
| tert-Butyl formate (TBF)           | ND     |   | 1   | 5.0 | 2.0  | ug/L  | 09/13/2019 1118 |
| 1,2-Dichloroethane                 | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/13/2019 1118 |
| Diisopropyl ether (IPE)            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/13/2019 1118 |
| 3,3-Dimethyl-1-butanol             | ND     |   | 1   | 20  | 8.0  | ug/L  | 09/13/2019 1118 |
| Ethanol                            | ND     |   | 1   | 100 | 52   | ug/L  | 09/13/2019 1118 |
| Ethylbenzene                       | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/13/2019 1118 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/13/2019 1118 |
| Methyl tertiary butyl ether (MTBE) | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/13/2019 1118 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ28862-001

Matrix: Aqueous

Batch: 28862

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|--------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| Naphthalene              | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/13/2019 1118 |
| tert-butyl alcohol (TBA) | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/13/2019 1118 |
| Toluene                  | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/13/2019 1118 |
| Xylenes (total)          | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/13/2019 1118 |
| Surrogate                | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4    |        | 96    | 70-130           |     |      |       |                 |
| Bromofluorobenzene       |        | 103   | 70-130           |     |      |       |                 |
| Toluene-d8               |        | 105   | 70-130           |     |      |       |                 |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ28862-002

Matrix: Aqueous

Batch: 28862

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 1100          |                  | 1   | 107   | 70-130      | 09/13/2019 1034 |
| tert-Amyl methyl ether (TAME)      | 50                  | 48            |                  | 1   | 96    | 70-130      | 09/13/2019 1034 |
| Benzene                            | 50                  | 47            |                  | 1   | 95    | 70-130      | 09/13/2019 1034 |
| tert-Butyl formate (TBF)           | 250                 | 260           |                  | 1   | 103   | 70-130      | 09/13/2019 1034 |
| 1,2-Dichloroethane                 | 50                  | 48            |                  | 1   | 97    | 70-130      | 09/13/2019 1034 |
| Diisopropyl ether (IPE)            | 50                  | 51            |                  | 1   | 102   | 70-130      | 09/13/2019 1034 |
| 3,3-Dimethyl-1-butanol             | 1000                | 1100          |                  | 1   | 109   | 70-130      | 09/13/2019 1034 |
| Ethanol                            | 5000                | 5800          |                  | 1   | 115   | 70-130      | 09/13/2019 1034 |
| Ethylbenzene                       | 50                  | 53            |                  | 1   | 106   | 70-130      | 09/13/2019 1034 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 49            |                  | 1   | 98    | 70-130      | 09/13/2019 1034 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 45            |                  | 1   | 89    | 70-130      | 09/13/2019 1034 |
| Naphthalene                        | 50                  | 53            |                  | 1   | 105   | 70-130      | 09/13/2019 1034 |
| tert-butyl alcohol (TBA)           | 1000                | 1100          |                  | 1   | 108   | 70-130      | 09/13/2019 1034 |
| Toluene                            | 50                  | 52            |                  | 1   | 103   | 70-130      | 09/13/2019 1034 |
| Xylenes (total)                    | 100                 | 110           |                  | 1   | 106   | 70-130      | 09/13/2019 1034 |
| Surrogate                          | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4              |                     | 93            | 70-130           |     |       |             |                 |
| Bromofluorobenzene                 |                     | 99            | 70-130           |     |       |             |                 |
| Toluene-d8                         |                     | 101           | 70-130           |     |       |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MS

Sample ID: UI11080-035MS

Matrix: Aqueous

Batch: 28862

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % Rec Limit | Analysis Date   |  |
|------------------------------------|----------------------|---------------------|------------------|---|-----|-------|-------------|-----------------|--|
| tert-Amyl alcohol (TAA)            | 2100                 | 50000               | 49000            |   | 50  | 93    | 70-130      | 09/13/2019 1909 |  |
| tert-Amyl methyl ether (TAME)      | ND                   | 2500                | 2500             |   | 50  | 102   | 70-130      | 09/13/2019 1909 |  |
| Benzene                            | 2600                 | 2500                | 4600             |   | 50  | 79    | 70-130      | 09/13/2019 1909 |  |
| tert-Butyl formate (TBF)           | ND                   | 13000               | 11000            |   | 50  | 91    | 70-130      | 09/13/2019 1909 |  |
| 1,2-Dichloroethane                 | ND                   | 2500                | 2500             |   | 50  | 101   | 70-130      | 09/13/2019 1909 |  |
| Diisopropyl ether (IPE)            | ND                   | 2500                | 2600             |   | 50  | 103   | 70-130      | 09/13/2019 1909 |  |
| 3,3-Dimethyl-1-butanol             | ND                   | 50000               | 50000            |   | 50  | 99    | 70-130      | 09/13/2019 1909 |  |
| Ethanol                            | ND                   | 250000              | 210000           |   | 50  | 85    | 70-130      | 09/13/2019 1909 |  |
| Ethylbenzene                       | ND                   | 2500                | 2600             |   | 50  | 106   | 70-130      | 09/13/2019 1909 |  |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 2500                | 2500             |   | 50  | 99    | 70-130      | 09/13/2019 1909 |  |
| Methyl tertiary butyl ether (MTBE) | 270                  | 2500                | 2600             |   | 50  | 94    | 70-130      | 09/13/2019 1909 |  |
| Naphthalene                        | 67                   | 2500                | 2900             |   | 50  | 112   | 70-130      | 09/13/2019 1909 |  |
| tert-butyl alcohol (TBA)           | ND                   | 50000               | 47000            |   | 50  | 94    | 70-130      | 09/13/2019 1909 |  |
| Toluene                            | 33                   | 2500                | 2600             |   | 50  | 102   | 70-130      | 09/13/2019 1909 |  |
| Xylenes (total)                    | 1100                 | 5000                | 6400             |   | 50  | 106   | 70-130      | 09/13/2019 1909 |  |
| Surrogate                          | Q                    | % Rec               | Acceptance Limit |   |     |       |             |                 |  |
| 1,2-Dichloroethane-d4              |                      | 94                  | 70-130           |   |     |       |             |                 |  |
| Bromofluorobenzene                 |                      | 101                 | 70-130           |   |     |       |             |                 |  |
| Toluene-d8                         |                      | 102                 | 70-130           |   |     |       |             |                 |  |

## Volatile Organic Compounds by GC/MS - MSD

Sample ID: UI11080-035MD

Matrix: Aqueous

Batch: 28862

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 2100                 | 50000               | 50000         |   | 50  | 96    | 3.0   | 70-130      | 20          | 09/13/2019 1932 |
| tert-Amyl methyl ether (TAME)      | ND                   | 2500                | 2500          |   | 50  | 101   | 1.0   | 70-130      | 20          | 09/13/2019 1932 |
| Benzene                            | 2600                 | 2500                | 4500          |   | 50  | 77    | 1.0   | 70-130      | 20          | 09/13/2019 1932 |
| tert-Butyl formate (TBF)           | ND                   | 13000               | 11000         |   | 50  | 89    | 2.6   | 70-130      | 20          | 09/13/2019 1932 |
| 1,2-Dichloroethane                 | ND                   | 2500                | 2500          |   | 50  | 100   | 1.4   | 70-130      | 20          | 09/13/2019 1932 |
| Diisopropyl ether (IPE)            | ND                   | 2500                | 2600          |   | 50  | 103   | 0.66  | 70-130      | 20          | 09/13/2019 1932 |
| 3,3-Dimethyl-1-butanol             | ND                   | 50000               | 51000         |   | 50  | 103   | 3.1   | 70-130      | 20          | 09/13/2019 1932 |
| Ethanol                            | ND                   | 250000              | 230000        |   | 50  | 92    | 7.3   | 70-130      | 20          | 09/13/2019 1932 |
| Ethylbenzene                       | ND                   | 2500                | 2700          |   | 50  | 107   | 0.82  | 70-130      | 20          | 09/13/2019 1932 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 2500                | 2400          |   | 50  | 98    | 1.2   | 70-130      | 20          | 09/13/2019 1932 |
| Methyl tertiary butyl ether (MTBE) | 270                  | 2500                | 2600          |   | 50  | 93    | 0.88  | 70-130      | 20          | 09/13/2019 1932 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MSD

Sample ID: UI11080-035MD

Matrix: Aqueous

Batch: 28862

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|--------------------------|----------------------|---------------------|------------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Naphthalene              | 67                   | 2500                | 2900             |   | 50  | 113   | 0.95  | 70-130      | 20          | 09/13/2019 1932 |
| tert-butyl alcohol (TBA) | ND                   | 50000               | 48000            |   | 50  | 96    | 2.9   | 70-130      | 20          | 09/13/2019 1932 |
| Toluene                  | 33                   | 2500                | 2600             |   | 50  | 102   | 0.73  | 70-130      | 20          | 09/13/2019 1932 |
| Xylenes (total)          | 1100                 | 5000                | 6300             |   | 50  | 105   | 0.39  | 70-130      | 20          | 09/13/2019 1932 |
| Surrogate                | Q                    | % Rec               | Acceptance Limit |   |     |       |       |             |             |                 |
| 1,2-Dichloroethane-d4    |                      | 94                  | 70-130           |   |     |       |       |             |             |                 |
| Bromofluorobenzene       |                      | 104                 | 70-130           |   |     |       |       |             |             |                 |
| Toluene-d8               |                      | 103                 | 70-130           |   |     |       |       |             |             |                 |

## Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ28939-001

Matrix: Aqueous

Batch: 28939

Prep Method: 5030B

Analytical Method: 8260B

| Parameter             | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|-----------------------|--------|-------|------------------|-----|------|-------|-----------------|
| Naphthalene           | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/14/2019 1613 |
| Surrogate             | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4 |        | 95    | 70-130           |     |      |       |                 |
| Bromofluorobenzene    |        | 102   | 70-130           |     |      |       |                 |
| Toluene-d8            |        | 104   | 70-130           |     |      |       |                 |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ28939-002

Matrix: Aqueous

Batch: 28939

Prep Method: 5030B

Analytical Method: 8260B

| Parameter   | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|-------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Naphthalene | 50                  | 54            |   | 1   | 108   | 70-130      | 09/14/2019 1516 |

LOQ = Limit of Quantitation

DL = Detection Limit

LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

ND = Not detected at or above the DL

N = Recovery is out of criteria

+ = RPD is out of criteria

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ28939-002

Matrix: Aqueous

Batch: 28939

Prep Method: 5030B

Analytical Method: 8260B

| Surrogate             | Q | % Rec | Acceptance Limit |
|-----------------------|---|-------|------------------|
| 1,2-Dichloroethane-d4 |   | 96    | 70-130           |
| Bromofluorobenzene    |   | 101   | 70-130           |
| Toluene-d8            |   | 102   | 70-130           |

## Volatile Organic Compounds by GC/MS - MS

Sample ID: UI11080-016MS

Matrix: Aqueous

Batch: 28939

Prep Method: 5030B

Analytical Method: 8260B

| Parameter   | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|-------------|----------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Naphthalene | 8.8                  | 1000                | 1100          |   | 20  | 111   | 70-130      | 09/15/2019 0034 |

| Surrogate             | Q | % Rec | Acceptance Limit |
|-----------------------|---|-------|------------------|
| 1,2-Dichloroethane-d4 |   | 96    | 70-130           |
| Bromofluorobenzene    |   | 104   | 70-130           |
| Toluene-d8            |   | 105   | 70-130           |

## Volatile Organic Compounds by GC/MS - MSD

Sample ID: UI11080-016MD

Matrix: Aqueous

Batch: 28939

Prep Method: 5030B

Analytical Method: 8260B

| Parameter   | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|-------------|----------------------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Naphthalene | 8.8                  | 1000                | 1100          |   | 20  | 109   | 1.3   | 70-130      | 20          | 09/15/2019 0056 |

| Surrogate             | Q | % Rec | Acceptance Limit |
|-----------------------|---|-------|------------------|
| 1,2-Dichloroethane-d4 |   | 95    | 70-130           |
| Bromofluorobenzene    |   | 100   | 70-130           |
| Toluene-d8            |   | 102   | 70-130           |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ29228-001

Matrix: Aqueous

Batch: 29228

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Result | Q     | Dil              | LOQ | DL  | Units | Analysis Date   |
|--------------------------|--------|-------|------------------|-----|-----|-------|-----------------|
| tert-butyl alcohol (TBA) | ND     |       | 1                | 20  | 8.0 | ug/L  | 09/17/2019 2219 |
| Surrogate                | Q      | % Rec | Acceptance Limit |     |     |       |                 |
| 1,2-Dichloroethane-d4    |        | 84    | 70-130           |     |     |       |                 |
| Bromofluorobenzene       |        | 92    | 70-130           |     |     |       |                 |
| Toluene-d8               |        | 94    | 70-130           |     |     |       |                 |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ29228-002

Matrix: Aqueous

Batch: 29228

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|--------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| tert-butyl alcohol (TBA) | 1000                | 1100          |                  | 1   | 108   | 70-130      | 09/17/2019 2117 |
| Surrogate                | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4    |                     | 81            | 70-130           |     |       |             |                 |
| Bromofluorobenzene       |                     | 92            | 70-130           |     |       |             |                 |
| Toluene-d8               |                     | 91            | 70-130           |     |       |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and  $\geq$  DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Semivolatile Organic Compounds by GC/MS - MB

Sample ID: UQ28732-001

Matrix: Aqueous

Batch: 28732

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 09/12/2019 1415

| Parameter               | Result | Q     | Dil              | LOQ  | DL   | Units | Analysis Date   |
|-------------------------|--------|-------|------------------|------|------|-------|-----------------|
| Acenaphthene            | ND     |       | 1                | 0.80 | 0.20 | ug/L  | 09/13/2019 1454 |
| Acenaphthylene          | ND     |       | 1                | 0.80 | 0.20 | ug/L  | 09/13/2019 1454 |
| Anthracene              | ND     |       | 1                | 0.80 | 0.20 | ug/L  | 09/13/2019 1454 |
| Benzo(a)anthracene      | ND     |       | 1                | 0.80 | 0.20 | ug/L  | 09/13/2019 1454 |
| Benzo(a)pyrene          | ND     |       | 1                | 0.80 | 0.20 | ug/L  | 09/13/2019 1454 |
| Benzo(b)fluoranthene    | ND     |       | 1                | 0.80 | 0.20 | ug/L  | 09/13/2019 1454 |
| Benzo(g,h,i)perylene    | ND     |       | 1                | 0.80 | 0.20 | ug/L  | 09/13/2019 1454 |
| Benzo(k)fluoranthene    | ND     |       | 1                | 0.80 | 0.20 | ug/L  | 09/13/2019 1454 |
| Chrysene                | ND     |       | 1                | 0.80 | 0.20 | ug/L  | 09/13/2019 1454 |
| Dibenzo(a,h)anthracene  | ND     |       | 1                | 0.80 | 0.20 | ug/L  | 09/13/2019 1454 |
| Fluoranthene            | ND     |       | 1                | 0.80 | 0.20 | ug/L  | 09/13/2019 1454 |
| Fluorene                | ND     |       | 1                | 0.80 | 0.20 | ug/L  | 09/13/2019 1454 |
| Indeno(1,2,3-c,d)pyrene | ND     |       | 1                | 0.80 | 0.20 | ug/L  | 09/13/2019 1454 |
| Naphthalene             | ND     |       | 1                | 0.80 | 0.20 | ug/L  | 09/13/2019 1454 |
| Phenanthrene            | ND     |       | 1                | 0.80 | 0.20 | ug/L  | 09/13/2019 1454 |
| Pyrene                  | ND     |       | 1                | 0.80 | 0.20 | ug/L  | 09/13/2019 1454 |
| Surrogate               | Q      | % Rec | Acceptance Limit |      |      |       |                 |
| Nitrobenzene-d5         |        | 65    | 38-127           |      |      |       |                 |
| 2-Fluorobiphenyl        |        | 75    | 37-129           |      |      |       |                 |
| Terphenyl-d14           |        | 99    | 10-148           |      |      |       |                 |

## Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: UQ28732-002

Matrix: Aqueous

Batch: 28732

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 09/12/2019 1415

| Parameter              | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Acenaphthene           | 40                  | 28            |   | 1   | 70    | 30-122      | 09/13/2019 1519 |
| Acenaphthylene         | 40                  | 31            |   | 1   | 79    | 30-130      | 09/13/2019 1519 |
| Anthracene             | 40                  | 34            |   | 1   | 85    | 30-123      | 09/13/2019 1519 |
| Benzo(a)anthracene     | 40                  | 30            |   | 1   | 75    | 40-125      | 09/13/2019 1519 |
| Benzo(a)pyrene         | 40                  | 38            |   | 1   | 94    | 40-128      | 09/13/2019 1519 |
| Benzo(b)fluoranthene   | 40                  | 33            |   | 1   | 83    | 30-130      | 09/13/2019 1519 |
| Benzo(g,h,i)perylene   | 40                  | 25            |   | 1   | 63    | 30-130      | 09/13/2019 1519 |
| Benzo(k)fluoranthene   | 40                  | 38            |   | 1   | 95    | 30-130      | 09/13/2019 1519 |
| Chrysene               | 40                  | 32            |   | 1   | 80    | 30-130      | 09/13/2019 1519 |
| Dibenzo(a,h)anthracene | 40                  | 27            |   | 1   | 69    | 30-130      | 09/13/2019 1519 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: UQ28732-002

Matrix: Aqueous

Batch: 28732

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 09/12/2019 1415

| Parameter               | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|-------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| Fluoranthene            | 40                  | 35            |                  | 1   | 87    | 40-128      | 09/13/2019 1519 |
| Fluorene                | 40                  | 28            |                  | 1   | 71    | 30-124      | 09/13/2019 1519 |
| Indeno(1,2,3-c,d)pyrene | 40                  | 26            |                  | 1   | 66    | 30-130      | 09/13/2019 1519 |
| Naphthalene             | 40                  | 28            |                  | 1   | 69    | 30-130      | 09/13/2019 1519 |
| Phenanthrene            | 40                  | 30            |                  | 1   | 75    | 40-123      | 09/13/2019 1519 |
| Pyrene                  | 40                  | 30            |                  | 1   | 75    | 40-126      | 09/13/2019 1519 |
| Surrogate               | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| Nitrobenzene-d5         |                     | 63            | 38-127           |     |       |             |                 |
| 2-Fluorobiphenyl        |                     | 76            | 37-129           |     |       |             |                 |
| Terphenyl-d14           |                     | 89            | 10-148           |     |       |             |                 |

## Semivolatile Organic Compounds by GC/MS - MB

Sample ID: UQ29038-001

Matrix: Aqueous

Batch: 29038

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 09/16/2019 1512

| Parameter               | Result | Q | Dil | LOQ  | DL   | Units | Analysis Date   |
|-------------------------|--------|---|-----|------|------|-------|-----------------|
| Acenaphthene            | ND     |   | 1   | 0.80 | 0.20 | ug/L  | 09/18/2019 1235 |
| Acenaphthylene          | ND     |   | 1   | 0.80 | 0.20 | ug/L  | 09/18/2019 1235 |
| Anthracene              | ND     |   | 1   | 0.80 | 0.20 | ug/L  | 09/18/2019 1235 |
| Benzo(a)anthracene      | ND     |   | 1   | 0.80 | 0.20 | ug/L  | 09/18/2019 1235 |
| Benzo(a)pyrene          | ND     |   | 1   | 0.80 | 0.20 | ug/L  | 09/18/2019 1235 |
| Benzo(b)fluoranthene    | ND     |   | 1   | 0.80 | 0.20 | ug/L  | 09/18/2019 1235 |
| Benzo(g,h,i)perylene    | ND     |   | 1   | 0.80 | 0.20 | ug/L  | 09/18/2019 1235 |
| Benzo(k)fluoranthene    | ND     |   | 1   | 0.80 | 0.20 | ug/L  | 09/18/2019 1235 |
| Chrysene                | ND     |   | 1   | 0.80 | 0.20 | ug/L  | 09/18/2019 1235 |
| Dibenzo(a,h)anthracene  | ND     |   | 1   | 0.80 | 0.20 | ug/L  | 09/18/2019 1235 |
| Fluoranthene            | ND     |   | 1   | 0.80 | 0.20 | ug/L  | 09/18/2019 1235 |
| Fluorene                | ND     |   | 1   | 0.80 | 0.20 | ug/L  | 09/18/2019 1235 |
| Indeno(1,2,3-c,d)pyrene | ND     |   | 1   | 0.80 | 0.20 | ug/L  | 09/18/2019 1235 |
| Naphthalene             | ND     |   | 1   | 0.80 | 0.20 | ug/L  | 09/18/2019 1235 |
| Phenanthrene            | ND     |   | 1   | 0.80 | 0.20 | ug/L  | 09/18/2019 1235 |
| Pyrene                  | ND     |   | 1   | 0.80 | 0.20 | ug/L  | 09/18/2019 1235 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



## Semivolatile Organic Compounds by GC/MS - MB

Sample ID: UQ29038-001

Matrix: Aqueous

Batch: 29038

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 09/16/2019 1512

| Surrogate        | Q | % Rec | Acceptance Limit |
|------------------|---|-------|------------------|
| Nitrobenzene-d5  |   | 50    | 38-127           |
| 2-Fluorobiphenyl |   | 50    | 37-129           |
| Terphenyl-d14    |   | 71    | 10-148           |

## Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: UQ29038-002

Matrix: Aqueous

Batch: 29038

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 09/16/2019 1512

| Parameter               | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|-------------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Acenaphthene            | 40                  | 24            |   | 1   | 59    | 30-122      | 09/18/2019 1258 |
| Acenaphthylene          | 40                  | 26            |   | 1   | 64    | 30-130      | 09/18/2019 1258 |
| Anthracene              | 40                  | 34            |   | 1   | 84    | 30-123      | 09/18/2019 1258 |
| Benzo(a)anthracene      | 40                  | 30            |   | 1   | 74    | 40-125      | 09/18/2019 1258 |
| Benzo(a)pyrene          | 40                  | 26            |   | 1   | 65    | 40-128      | 09/18/2019 1258 |
| Benzo(b)fluoranthene    | 40                  | 26            |   | 1   | 66    | 30-130      | 09/18/2019 1258 |
| Benzo(g,h,i)perylene    | 40                  | 27            |   | 1   | 67    | 30-130      | 09/18/2019 1258 |
| Benzo(k)fluoranthene    | 40                  | 26            |   | 1   | 64    | 30-130      | 09/18/2019 1258 |
| Chrysene                | 40                  | 28            |   | 1   | 69    | 30-130      | 09/18/2019 1258 |
| Dibenzo(a,h)anthracene  | 40                  | 27            |   | 1   | 68    | 30-130      | 09/18/2019 1258 |
| Fluoranthene            | 40                  | 32            |   | 1   | 79    | 40-128      | 09/18/2019 1258 |
| Fluorene                | 40                  | 26            |   | 1   | 66    | 30-124      | 09/18/2019 1258 |
| Indeno(1,2,3-c,d)pyrene | 40                  | 26            |   | 1   | 65    | 30-130      | 09/18/2019 1258 |
| Naphthalene             | 40                  | 29            |   | 1   | 71    | 30-130      | 09/18/2019 1258 |
| Phenanthrene            | 40                  | 33            |   | 1   | 83    | 40-123      | 09/18/2019 1258 |
| Pyrene                  | 40                  | 28            |   | 1   | 71    | 40-126      | 09/18/2019 1258 |

| Surrogate        | Q | % Rec | Acceptance Limit |
|------------------|---|-------|------------------|
| Nitrobenzene-d5  |   | 70    | 38-127           |
| 2-Fluorobiphenyl |   | 59    | 37-129           |
| Terphenyl-d14    |   | 73    | 10-148           |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and  $\geq$  DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## EDB & DBCP by Microextraction - MB

Sample ID: UQ29139-001

Matrix: Aqueous

Batch: 29139

Prep Method: 8011

Analytical Method: 8011

Prep Date: 09/17/2019 1208

| Parameter                 | Result | Q     | Dil              | LOQ   | DL    | Units | Analysis Date   |
|---------------------------|--------|-------|------------------|-------|-------|-------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND     |       | 1                | 0.020 | 0.020 | ug/L  | 09/17/2019 1454 |
| Surrogate                 | Q      | % Rec | Acceptance Limit |       |       |       |                 |
| 1,1,1,2-Tetrachloroethane |        | 80    | 57-137           |       |       |       |                 |

## EDB & DBCP by Microextraction - LCS

Sample ID: UQ29139-002

Matrix: Aqueous

Batch: 29139

Prep Method: 8011

Analytical Method: 8011

Prep Date: 09/17/2019 1208

| Parameter                 | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|---------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| 1,2-Dibromoethane (EDB)   | 0.25                | 0.20          |                  | 1   | 81    | 60-140      | 09/17/2019 1505 |
| Surrogate                 | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,1,1,2-Tetrachloroethane |                     | 83            | 57-137           |     |       |             |                 |

## EDB & DBCP by Microextraction - MB

Sample ID: UQ29156-001

Matrix: Aqueous

Batch: 29156

Prep Method: 8011

Analytical Method: 8011

Prep Date: 09/17/2019 1435

| Parameter                 | Result | Q     | Dil              | LOQ   | DL    | Units | Analysis Date   |
|---------------------------|--------|-------|------------------|-------|-------|-------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND     |       | 1                | 0.020 | 0.020 | ug/L  | 09/17/2019 1931 |
| Surrogate                 | Q      | % Rec | Acceptance Limit |       |       |       |                 |
| 1,1,1,2-Tetrachloroethane |        | 78    | 57-137           |       |       |       |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## EDB & DBCP by Microextraction - LCS

Sample ID: UQ29156-002

Matrix: Aqueous

Batch: 29156

Prep Method: 8011

Analytical Method: 8011

Prep Date: 09/17/2019 1435

| Parameter                 | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|---------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| 1,2-Dibromoethane (EDB)   | 0.25                | 0.22          |                  | 1   | 87    | 60-140      | 09/17/2019 1942 |
| Surrogate                 | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,1,1,2-Tetrachloroethane |                     | 90            | 57-137           |     |       |             |                 |

## EDB & DBCP by Microextraction - Duplicate

Sample ID: UI11080-018DU

Matrix: Aqueous

Batch: 29156

Prep Method: 8011

Analytical Method: 8011

Prep Date: 09/17/2019 1435

| Parameter                 | Sample Amount (ug/L) | Result (ug/L) | Q                | Dil | % RPD | % RPD Limit | Analysis Date   |
|---------------------------|----------------------|---------------|------------------|-----|-------|-------------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND                   | ND            |                  | 1   | 0.00  | 20          | 09/17/2019 2004 |
| Surrogate                 | Q                    | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,1,1,2-Tetrachloroethane |                      | 95            | 57-137           |     |       |             |                 |

## EDB & DBCP by Microextraction - MS

Sample ID: UI11080-020MS

Matrix: Aqueous

Batch: 29156

Prep Method: 8011

Analytical Method: 8011

Prep Date: 09/17/2019 1435

| Parameter                 | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|---------------------------|----------------------|---------------------|------------------|---|-----|-------|-------------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND                   | 0.25                | 0.22             |   | 1   | 90    | 60-140      | 09/17/2019 2035 |
| Surrogate                 | Q                    | % Rec               | Acceptance Limit |   |     |       |             |                 |
| 1,1,1,2-Tetrachloroethane |                      | 91                  | 57-137           |   |     |       |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

**Chain of Custody  
and  
Miscellaneous Documents**



**Chain of Custody Record**

**SHEALY ENVIRONMENTAL SERVICES, INC.**  
106 Vantage Point Drive • West Columbia, SC 29172  
Telephone No. 803-791-9700 Fax No. 803-791-9111  
www.shealylab.com

Number 098318

|  |                     |  |   |   |                     |                           |                           |
|--|---------------------|--|---|---|---------------------|---------------------------|---------------------------|
| Client <u>Terry Environmental Services</u>   |                     | Report to Contact <u>Kelly Cone</u>  |   | Telephone No. / E-mail <u>843-873-8200</u>  |                     | Quota No.                 |                           |
| Address <u>PO Box 25</u>   |                     | Sampler's Signature <u>Langston Jones</u>  |   | Analysis (Attach list if more space is needed)  |                     | Page <u>1</u> of <u>2</u> |                           |
| City <u>Summerville</u>  | State <u>SC</u>     | Zip Code <u>29484</u>  | Printed Name <u>Langston Jones</u>            | BTX/MET/LEDA<br>SV/ETH  |                     | ED8<br>PAH                |                           |
| Project Name <u>Hot Spot #3005</u>   |                     | Project No. <u>2236.8I</u>   |   |   |                     |                           |                           |
| Sample ID / Description  |                     | Date   | Time  | Matrix  |                     |                           |                           |
| (Containers for each sample may be accumulated on one line)                                    |                     |  |   |   |                     |                           |                           |
| <u>12719</u>   | <u>FB-1</u>         | <u>9-10-19</u>   | <u>1135</u>                                   | <u>gX</u>   | <u>0</u>            | <u>5</u>                  | <u>3 2 0</u>              |
|  | <u>MW-13</u>        | <u>✓</u>   | <u>1200</u>                                   |   | <u>1</u>            |                           | <u>3 2 1</u>              |
|  | <u>MW-12</u>        | <u>✓</u>   | <u>1221</u>                                   |   |                     |                           |                           |
|  | <u>MW-11</u>        | <u>✓</u>   | <u>1211</u>                                   |   |                     |                           |                           |
|  | <u>MW-10</u>        | <u>✓</u>   | <u>1227</u>                                   |   |                     |                           |                           |
|  | <u>MW-11R</u>       | <u>✓</u>   | <u>1246</u>                                   |   |                     |                           |                           |
|  | <u>MW-10R</u>       | <u>✓</u>   | <u>1308</u>                                   |   |                     |                           |                           |
|  | <u>MW-8R</u>        | <u>✓</u>   | <u>1405</u>                                   |   |                     |                           |                           |
|  | <u>MW-14</u>        | <u>✓</u>   | <u>1446</u>                                   |   |                     |                           |                           |
|  | <u>MW-24</u>        | <u>✓</u>   | <u>1511</u>                                   |   |                     |                           |                           |
| Turn Around Time Required (Prior lab approval required for expedited TAT.)                     |                     | Sample Disposal  |   | Possible Hazard Identification  |                     |                           | QC Requirements (Specify) |
| <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)           |                     | <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Dispose by Lab |   | <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown |                     |                           |                           |
| 1. Relinquished by <u>Langston Jones</u>   | Date <u>9-11-19</u> | Time <u>1743</u>   | 1. Received by                                |   | Date                | Time                      |                           |
| 2. Relinquished by   | Date                | Time   | 2. Received by                                |   | Date                | Time                      |                           |
| 3. Relinquished by   | Date                | Time   | 3. Received by                                |   | Date                | Time                      |                           |
| 4. Relinquished by   | Date                | Time   | 4. Laboratory received by <u>Darrell N...</u> |   | Date <u>9/11/19</u> | Time <u>1743</u>          |                           |
| Note: All samples are retained for four weeks from receipt unless other arrangements are made. |                     |  |   | LAB USE ONLY<br>Received on Ice (Circle) <input checked="" type="checkbox"/> No Ice Pack Receipt Temp <u>53.5256</u>  |                     |                           |                           |

DISTRIBUTION: WHITE & YELLOW-Return to Laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.



**Chain of Custody Record**

**SHEALY ENVIRONMENTAL SERVICES, INC.**  
106 Vantage Point Drive • West Columbia, SC 29172  
Telephone No. 803-791-9700 Fax No. 803-791-9111  
www.shealylab.com

Number 098322

| Client <b>Terry Environmental Services</b>   |       |                 | Report to Contact <b>Kelly Cone</b>         |   |  | Telephone No. / E-mail <b>843-873-8200</b>     |      |   | Quote No.        |          |     |                               |   |  |  |
|--|-------|-----------------|---|---|--|--|------|---|------------------|----------|-----|-------------------------------|---|--|--|
| Address <b>PO Box 25</b>   |       |                 | Sample's Signature<br><i>Langston Jones</i> |   |  | Analysis (Attach list if more space is needed) |      |   | Page <b>2</b> of |          |     |                               |   |  |  |
| City <b>Summerville</b>  |       | State <b>SC</b> | Zip Code <b>29484</b>                       |   | Printed Name<br><b>Langston Jones</b>  |  |      | <p><b>UI11080</b></p> <p>KAN2<br/>Remarks / Colector I.D.</p>   |                  |          |     |                               |   |  |  |
| Project Name <b>Hot Spot #3005</b>   |       |                 | Project No. <b>2230.8I</b>                  |   |  | P.O. No.                                       |      |   |                  |          |     |                               |   |  |  |
| Sample ID / Description  |       | Date            | Time  | Matrix  | No. of Containers by Preservative Type |  |      |   |                  | Analysis |     |                               |   |  |  |
| (Containers for each sample may be combined on one line.)                                      |       |                 |   |   | Unpres                                 | Pres   | MSD  | LT  | MSD              | MSD      | MSD | MSD                           |   |  |  |
| 12714  | DW-3  | 9-10-19         | 1528  | 4X  | 1                                      |  | 5    |   |                  |          | 3   | 2                             | 1 |  |  |
|  | MW-15 | ✓               | 1546  |   |  |  |      |   |                  |          |     |                               |   |  |  |
|  | MW-6  | ✓               | 1739  |   |  |  |      |   |                  |          |     |                               |   |  |  |
|  | MW-7  | ✓               | 1758  |   |  |  |      |   |                  |          |     |                               |   |  |  |
|  | MW-9  | ✓               | 1811  |   |  |  |      |   |                  |          |     |                               |   |  |  |
|  | MW-5  | ✓               | 1829  |   |  |  |      |   |                  |          |     |                               |   |  |  |
|  | MW-17 | ✓               | 1854  |   |  |  |      |   |                  |          |     |                               |   |  |  |
|  | MW-18 | ✓               | 1902  |   |  |  |      |   |                  |          |     |                               |   |  |  |
|  | FB-2  | 9-11-19         | 0812  |   |  |  | 0    |   |                  |          | 3   | 2                             | 0 |  |  |
|  | MW-19 | 9-11-19         | 0820  |   |  |  | 1    |   |                  |          | 3   | 2                             | 1 |  |  |
| Turn Around Time Required (Prior lab approval required for expedited TAT.)                     |       |                 |   | Sample Disposal   |  |  |      | Possible Hazard Identification  |                  |          |     | QC Remnants (Specify)         |   |  |  |
| <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)           |       |                 |   | <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab |  |  |      | <input checked="" type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown |                  |          |     |                               |   |  |  |
| 1. Relinquished by <i>Langston Jones</i>   |       | Date            | Time  | 1. Received by  |  | Date   | Time |   |                  |          |     |                               |   |  |  |
| 2. Relinquished by   |       | Date            | Time  | 2. Received by  |  | Date   | Time |   |                  |          |     |                               |   |  |  |
| 3. Relinquished by   |       | Date            | Time  | 3. Received by  |  | Date   | Time |   |                  |          |     |                               |   |  |  |
| 4. Relinquished by   |       | Date            | Time  | 4. Laboratory received by <i>Dana N...</i>  |  | Date   | Time |   |                  |          |     |                               |   |  |  |
| Note: All samples are retained for four weeks from receipt unless other arrangements are made. |       |                 |   | LAB USE ONLY  |  |  |      | Received on Ice (Circle) <input checked="" type="checkbox"/> No Ice Pack  |                  |          |     | Receipt Temp <b>5.35.45°C</b> |   |  |  |

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK Form/Client Copy

Document Number: F-AD-188 Effective Date: 05-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.



**Chain of Custody Record**

**SHEALY ENVIRONMENTAL SERVICES, INC.**  
106 Vantage Point Drive • West Columbia, SC 29172  
Telephone No. 803-791-9700 Fax No. 803-791-9111  
www.shealylab.com

Number 098321

| Client <b>Terry Environmental Services</b>   |                 |                       | Report to Contact <b>Kelly Cone</b>          |   |                   | Telephone No. / E-mail <b>843-879-8200</b>   |      |   | Quote No.  |      |      |  |   |      |      |
|--|-----------------|-----------------------|--|---|-------------------|--|------|---|--|------|------|--|---|------|------|
| Address <b>PO Box 25</b>   |                 |                       | Sampler's Signature<br><i>Langston Jones</i> |   |                   | Analysis (Attach list if more space is needed)   |      |   | Page <b>3</b> of <b>4</b>                                  |      |      |  |   |      |      |
| City <b>Summerville</b>  | State <b>SC</b> | Zip Code <b>29484</b> | Printed Name<br><b>Langston Jones</b>        |   |                   | Matrix<br>No of Containers by Preservative Type<br>BTEX/PAH/1-DCA<br>PAH<br>EDB<br>PAH |      |   | Barcode<br><b>UI11080</b><br>KIMS<br>HELMETS / Coater I.D. |      |      |  |   |      |      |
| Project Name <b>Hot Spot #3005</b>   |                 |                       | Project No. <b>2230.8 I</b>                  |   |                   |  |      |   |  |      |      | R.O. No.   |   |      |      |
| Sample ID / Description  |                 | Date                  | Time   | Matrix  | Preservative Type | 1  | 2    | 3   | 4  | 5    | 6    | 7  | 8 | 9    | 10   |
| <i>(Containers for each sample may be combined on one line.)</i>                     |                 |                       |  |   |                   |  |      |   |  |      |      |  |   |      |      |
| 12719 MW-20  |                 | 9-11-19               | 0829   | g X   |                   |  |      |   |  |      |      |  |   |      |      |
| MW-21  |                 | ✓                     | 0840   |   |                   |  |      |   |  |      |      |  |   |      |      |
| MW-14  |                 | ✓                     | 0911   |   |                   |  |      |   |  |      |      |  |   |      |      |
| MW-25  |                 | ✓                     | 0924   |   |                   |  |      |   |  |      |      |  |   |      |      |
| MW-22  |                 | ✓                     | 0954   |   |                   |  |      |   |  |      |      |  |   |      |      |
| MW-23  |                 | ✓                     | 0959   |   |                   |  |      |   |  |      |      |  |   |      |      |
| MW-10  |                 | ✓                     | 1050   |   |                   |  |      |   |  |      |      |  |   |      |      |
| MW-2R  |                 | ✓                     | 1109   |   |                   |  |      |   |  |      |      |  |   |      |      |
| RW-2   |                 | ✓                     | 1121   |   |                   |  |      |   |  |      |      |  |   |      |      |
| MW-1R  |                 | ✓                     | 1212   |   |                   |  |      |   |  |      |      |  |   |      |      |
| Turn Around Time Required (Prior lab approval required for expedited TAT.)           |                 |                       |  | Sample Disposal   |                   |  |      | Possible Hazard Identification  |  |      |      | QC Requirements (Specify)  |   |      |      |
| <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify) |                 |                       |  | Return to Client <input type="checkbox"/> Disposal by Lab |                   |  |      | <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown |  |      |      |  |   |      |      |
| 1. Relinquished by <i>Langston Jones</i>   |                 | Date                  | Time   | 1. Received by  |                   | Date   | Time | 2. Received by  |  | Date | Time | 3. Received by   |   | Date | Time |
| 2. Relinquished by   |                 | Date                  | Time   | 2. Received by  |                   | Date   | Time | 3. Received by  |  | Date | Time | 4. Laboratory received by <i>Darby West</i>  |   | Date | Time |
| 3. Relinquished by   |                 | Date                  | Time   | 3. Received by  |                   | Date   | Time | 4. Laboratory received by   |  | Date | Time | Note: All samples are retained for four weeks from receipt unless other arrangements are made. |   |      |      |
| 4. Relinquished by   |                 | Date                  | Time   | 4. Received by  |                   | Date   | Time | LAB USE ONLY<br>Received on ice (Circle) <input checked="" type="checkbox"/> No Ice Pack Receipt Temp. <i>5.3, 5.2, 5.6</i>   |  |      |      |  |   |      |      |

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-158 Effective Date: 08-01-2014



**Chain of Custody Record**

**SHEALY ENVIRONMENTAL SERVICES, INC.**  
106 Vantage Point Drive • West Columbia, SC 29172  
Telephone No. 803-791-9700 Fax No. 803-791-9111  
www.shealylab.com

Number 098320

| Client: <u>Terry Environmental Services</u>  |              |         | Report to Contact: <u>Kelly Cone</u>   |   |              | Telephone No. / Email: <u>843-573-8200</u>  |      |   | Quote No. |      |      |  |  |      |  |
|--|--------------|---------|--|---|--------------|---|------|---|-----------|------|------|--|--|------|--|
| Address: <u>PO Box 25</u>  |              |         | Sample's Signature: <u>[Signature]</u> |   |              | Analysis (Attach list if more space is needed)  |      |   |           |      |      |  |  |      |  |
| City: <u>Summerville</u> State: <u>SC</u> Zip Code: <u>29484</u>                               |              |         | Printed Name: <u>Lariston Jones</u>    |   |              | Matrix: <u>gX</u><br>No. of Containers by Preservative Type:<br>STEARIC ACID: <u>3</u><br>EDTA: <u>2</u><br>PAH: <u>2</u> |      |   |           |      |      |  |  |      |  |
| Project Name: <u>Hot Spot #3005</u>  |              |         | Project No.: <u>2230.8 I</u>           |   |              |   |      |   |           |      |      | P.O. No.   |  |      | Remarks / Coater (D):<br>UI11080<br>XMM2 |
| Sample ID / Description  |              | Date    | Time                                   | Matrix  | STEARIC ACID | EDTA  | PAH  | Remarks / Coater (D)  |           |      |      |  |  |      |  |
| 12719  | MW-3R ✓      | 9-11-19 | 1300                                   | gX  | 2            | 5   |      |   |           |      |      |  |  |      |  |
|  | RW-3 ✓       |         | 1306                                   |   |              |   |      |   |           |      |      |  |  |      |  |
|  | RW-3 dup ✓   |         | 1308                                   |   |              |   |      |   |           |      |      |  |  |      |  |
|  | MW-16 ✓      |         | 1355                                   |   |              |   |      |   |           |      |      |  |  |      |  |
|  | MW-16 dup ✓  |         | 1357                                   |   |              |   |      |   |           |      |      |  |  |      |  |
|  | DW-2 ✓       |         | 1412                                   |   |              |   |      |   |           |      |      |  |  |      |  |
|  | SW-1 ✓       |         | 1444                                   |   |              |   |      |   |           |      |      |  |  |      |  |
|  | Trip Blank ✓ |         |  |   | 0            | 2   |      | 2   | 0         | 0    |      |  |  |      |  |
|  | Trip Blank ✓ |         |  |   | 0            | 2   |      | 2   | 0         | 0    |      |  |  |      |  |
|  | Trip Blank ✓ |         |  |   | 0            | 2   |      | 2   | 0         | 0    |      |  |  |      |  |
| Turn Around Time Required (Prior lab approval required for expedited TAT.)                     |              |         |  | Sample Disposal   |              |   |      | Possible Hazard Identification  |           |      |      | QC Requirements (Specify)  |  |      |  |
| <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)           |              |         |  | <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab |              |   |      | <input checked="" type="checkbox"/> Non-hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown |           |      |      |  |  |      |  |
| 1. Relinquished by <u>[Signature]</u>  |              | Date    | Time                                   | 1. Received by  |              | Date  | Time | 2. Received by  |           | Date | Time | 3. Received by   |  | Date | Time                                     |
| 2. Relinquished by   |              | Date    | Time                                   | 2. Received by  |              | Date  | Time | 3. Received by  |           | Date | Time | 4. Laboratory received by <u>[Signature]</u>   |  | Date | Time                                     |
| 3. Relinquished by   |              | Date    | Time                                   | 3. Received by  |              | Date  | Time | 4. Laboratory received by   |           | Date | Time |  |  |      |  |
| 4. Relinquished by   |              | Date    | Time                                   | 4. Received by  |              | Date  | Time |   |           |      |      |  |  |      |  |
| Note: All samples are retained for four weeks from receipt unless other arrangements are made. |              |         |  |   |              |   |      | LAB USE ONLY  |           |      |      | Received on ice (Circle) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Ice Pack Receipt Temp: <u>5.3-2.6°C</u> |  |      |  |

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 06-01-2014



# SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.  
Document Number: ME0118C-14

Page 1 of 1  
Effective Date: 8/2/2018

## Sample Receipt Checklist (SRC)

Client: Terry Environmental      Cooler Inspected by/date: JSU / 09/11/19      Lot #: UI11080

|  |   |
|--|---|
| Means of receipt: <input type="checkbox"/> SESI <input checked="" type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____                                       |   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | 1. Were custody seals present on the cooler?  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 2. If custody seals were present, were they intact and unbroken?  |
| pH Strip ID: <u>NA</u> Chlorine Strip ID: <u>NA</u> Tested by: <u>NA</u>   |   |
| Original temperature upon receipt / Derived (Corrected) temperature upon receipt      %Solid Snap-Cup ID: <u>NA</u><br>5.3 / 5.3 °C    5.2 / 5.2 °C    5.6 / 5.6 °C    NA / NA °C  |   |
| Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles    IR Gun ID: <u>5</u> IR Gun Correction Factor: <u>0</u> °C  |   |
| Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None   |   |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).                  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 4. Is the commercial courier's packing slip attached to this form?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 5. Were proper custody procedures (relinquished/received) followed?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 6. Were sample IDs listed on the COC?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 7. Were sample IDs listed on all sample containers?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 8. Was collection date & time listed on the COC?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 9. Was collection date & time listed on all sample containers?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 10. Did all container label information (ID, date, time) agree with the COC?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 11. Were tests to be performed listed on the COC?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 13. Was adequate sample volume available?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | 15. Were any samples containers missing/excess (circle one) samples Not listed on COC?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA  | 16. For VOA and RSK-175 samples, were bubbles present >"pca-size" (¼" or 6mm in diameter) in any of the VOA vials?  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 17. Were all DRO/metals/nutrient samples received at a pH of < 2?   |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 19. Were all applicable NH <sub>3</sub> /TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS? |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | 21. Was the quote number listed on the container label? If yes, Quote # <u>NA</u>   |
| <b>Sample Preservation</b> (Must be completed for any sample(s) incorrectly preserved or with headspace.)  |   |
| Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> mL of circle one: H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub> , HCl, NaOH using SR # <u>NA</u>      |   |
| Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below.   |   |
| Sample(s) Trip Blanks were received with bubbles >6 mm in diameter.  |   |
| Samples(s) <u>NA</u> were received with TRC > 0.5 mg/L (If #19 is <i>no</i> ) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ) with Shealy ID: <u>NA</u> |   |
| SR barcode labels applied by: <u>JSU/BMG</u> Date: <u>09/11/19</u>   |   |

Comments:

---



---



---



---



---

**APPENDIX C**

**Tax Map  
(Not Applicable)**

**APPENDIX D**

**Soil Boring/Field Screening Logs  
(Not Applicable)**

**APPENDIX E**

**Well Completion Logs/SCDHEC 1903 Forms  
(Not Applicable)**

**APPENDIX F**

**Aquifer Evaluation Forms  
(Not Applicable)**

**APPENDIX G**

**Disposal Manifests**

# US Water Recovery

|   |            |   |                      |
|---|------------|---|----------------------|
| <b>Non-Hazardous Manifest: Waste Water or Drums</b>   |            | <b>Number:</b>  |                      |
| 1. Generator's EPA ID# (if applicable):   |            | Waste ID Number:  |                      |
| 2. Generator's Name and Mailing Address:<br><i>Hot Spot #3005 Chesnee, SC</i>   |            | Phone ( ) <i>UST #12719</i>   |                      |
|   |            | P O #: <i>2730.8K</i>   |                      |
| 3. Agent of Generator and Mailing Address:<br><i>Terry Environmental Services PO Box 25 Summerville, SC 29484</i>   |            | Phone (843) <i>873-8200</i>   |                      |
|   |            | P O #:  |                      |
| 4. Transporter Company Name:<br><i>↓</i>  |            | Phone ( )   |                      |
| Truck & Trailer License Number:   |            |   |                      |
| 5. Transporter U.S. EPA ID#:  |            |   |                      |
| 6. Facility Name and Site Address:<br>US Water Recovery<br>511 Old Mt. Holly Rd.<br>Goose Creek, SC 29445   |            | Mailing Address:<br>US Water Recovery<br>511 Old Mt. Holly Rd.<br>Goose Creek, SC 29445 |                      |
|   |            | Phone: (843) 797-3111<br>Fax: (843) 797-1884  |                      |
| 7. Facility U.S. EPA ID#:   |            |   |                      |
| Start Level:  | End Level: | Total Gallons:  | Tank Number          |
| 8. U.S. DOT Description   |            | Container   | Unit                 |
|   |            | No.   | Type                 |
| a. Non-Hazardous, non-regulated waste water   |            |   | <i>gal</i>           |
|   |            |   | <i>35</i>            |
|   |            |   |                      |
|   |            |   |                      |
| 9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility. |            |   |                      |
| Printed/Typed Name: <i>Langston Jones</i>   |            | Signature: <i>Langston Jones (as agent)</i>   | Date: <i>9-11-19</i> |
| 10. Transporter Acknowledgement of Receipt of Materials   |            |   |                      |
| Printed/Typed Name:   |            | Signature:  | Date:                |
| 11. Discrepancy Indication space:   |            |   |                      |
| 12. Facility Owner or Operator: Certification of Receipt of Materials   |            |   |                      |
| Printed/Typed Name: <i>Daniel...</i>  |            | Signature: <i>Daniel...</i>   | Date: <i>9-13-19</i> |

White - Facility      Yellow - Office      Pink - Transporter      Blue - Generator

21456

**APPENDIX H**

**Local Zoning Regulations  
(Not Applicable)**



**APPENDIX I**

**Fate and Transport Modeling Data  
(Not Applicable)**

**APPENDIX J**

**Access Agreements  
(Not Applicable)**

## **APPENDIX K**

### **Data Verification Checklist**

## Contractor Checklist – Hot Spot #3005

**UST Permit #12719 - TERRY Project #2230.8K**

| Item # | Item   | Yes | No | N/A |
|--------|--|-----|----|-----|
| 1      | Is Facility Name, Permit #, and address provided?  | X   |    |     |
| 2      | Is UST Owner/Operator name, address, & phone number provided?  | X   |    |     |
| 3      | Is name, address, & phone number of current property owner provided?   | X   |    |     |
| 4      | Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?             | X   |    |     |
| 5      | Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?     |     |    | X   |
| 6      | Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided? | X   |    |     |
| 7      | Has the facility history been summarized?  | X   |    |     |
| 8      | Has the regional geology and hydrogeology been described?  | X   |    |     |
| 9      | Are the receptor survey results provided as required?  |     |    | X   |
| 10     | Has current use of the site and adjacent land been described?  | X   |    |     |
| 11     | Has the site-specific geology and hydrogeology been described?   | X   |    |     |
| 12     | Has the primary soil type been described?  |     |    | X   |
| 13     | Have field screening results been described?   |     |    | X   |
| 14     | Has a description of the soil sample collection and preservation been detailed?  |     |    | X   |
| 15     | Has the field screening methodology and procedure been detailed?   |     |    | X   |
| 16     | Has the monitoring well installation and development dates been provided?  |     |    | X   |
| 17     | Has the method of well development been detailed?  |     |    | X   |
| 18     | Has justification been provided for the locations of the monitoring wells?   |     |    | X   |
| 19     | Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?   | X   |    |     |
| 20     | Has the groundwater sampling methodology been detailed?  | X   |    |     |
| 21     | Have the groundwater sampling dates and groundwater measurements been provided?  | X   |    |     |
| 22     | Has the purging methodology been detailed?   | X   |    |     |
| 23     | Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?                    | X   |    |     |
| 24     | If free-product is present, has the thickness been provided?   | X   |    |     |
| 25     | Does the report include a brief discussion of the assessment done and the results?   | X   |    |     |
| 26     | Does the report include a brief discussion of the aquifer evaluation and results?  |     |    | X   |
| 27     | Does the report include a brief discussion of the fate & transport models used?  |     |    | X   |
| 28     | Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)  |     |    | X   |
| 29     | Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)   |     |    | X   |
| 30     | Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)   |     |    | X   |
| 31     | Have recommendations for further action been provided and explained?   | X   |    |     |
| 32     | Has the soil analytical data for the site been provided in tabular format? (Table 1)   |     |    | X   |
| 33     | Has the potentiometric data for the site been provided in tabular format? (Table 2)  | X   |    |     |
| 34     | Has the current and historical laboratory data been provided in tabular format?  | X   |    |     |

| Item # | Item   | Yes        | No | N/A        |
|--------|--|------------|----|------------|
| 35     | Have the aquifer characteristics been provided and summarized on the appropriate form?   |            |    | X          |
| 36     | Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)  |            |    | X          |
| 37     | Has the topographic map been provided with all required elements? (Figure 1)   | X          |    |            |
| 38     | Has the site base map been provided with all required elements? (Figure 2)   | X          |    |            |
| 39     | Have the CoC site maps been provided? (Figure 3 & Figure 4)  | X<br>Fig 4 |    | X<br>Fig 3 |
| 40     | Has the site potentiometric map been provided? (Figure 5)  | X          |    |            |
| 41     | Have the geologic cross-sections been provided? (Figure 6)   |            |    | X          |
| 42     | Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)                             |            |    | X          |
| 43     | Has the site survey been provided and include all necessary elements? (Appendix A)   |            |    | X          |
| 44     | Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B) | X          |    |            |
| 45     | Is the laboratory performing the analyses properly certified?  | X          |    |            |
| 46     | Has the tax map been included with all necessary elements? (Appendix C)  |            |    | X          |
| 47     | Have the soil boring/field screening logs been provided? (Appendix D)  |            |    | X          |
| 48     | Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)   |            |    | X          |
| 49     | Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)   |            |    | X          |
| 50     | Have the disposal manifests been provided? (Appendix G)  | X          |    |            |
| 51     | Has a copy of the local zoning regulations been provided? (Appendix H)   |            |    | X          |
| 52     | Has all fate and transport modeling been provided? (Appendix I)  |            |    | X          |
| 53     | Have copies of all access agreements obtained by the contractor been provided? (Appendix J)  |            |    | X          |
| 54     | Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?       | X          |    |            |

Explanation for missing and incomplete information?

Not Applicable for the current directive.



MS CYNDI SUTTLES  
RL JODAN OIL COMPANY OF NC INC  
PO BOX 2527  
SPARTANBURG SC 29305-2527

OCT 15 2019

Re: Site-Specific Work Plan (SSWP) Request for Groundwater Sampling  
Hot Spot #3005, 107 Hampton St., Chesnee, SC  
UST Permit #12719  
Release reported August 4, 2003  
Groundwater Sampling Report received October 7, 2019  
Spartanburg County

Dear Ms. Suttles:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by your contractor. The report documents petroleum chemicals in the groundwater above Risk-Based Screening Levels (RBSLs).

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the UST QAPP is available at <https://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance>.

Groundwater samples should be collected from all monitoring wells associated with the above referenced release and all water supply wells, and surface waters within a 1,000 foot radius of the site and analyzed for BTEX, Naphthalene, MtBE, 1,2-DCA, and the 8 oxygenates.

**Your contractor must complete the SSWP and submit it within 30 days from the date of this letter.** Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

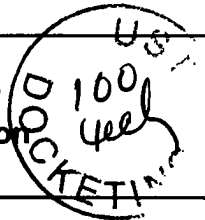
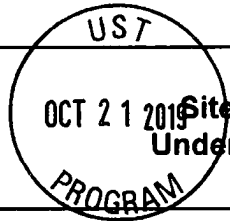
On all correspondence regarding this site, please use the UST Permit number referenced above. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-0592, by fax at (803) 898-0673, or by e-mail at [edgarsk@dhec.sc.gov](mailto:edgarsk@dhec.sc.gov).

Sincerely,

A handwritten signature in black ink that reads "Sedona Edgar". The signature is written in a cursive, flowing style.

Sedona Edgar, Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

cc: Terry Environmental Services Inc., PO Box 25, Summerville, SC 29484  
Technical file



Site-Specific Work Plan for Approved ACQAP  
Underground Storage Tank Management Division

To: Sedona Edgar (SCDHEC Project Manager)  
From: Kelly Cone (Contractor Project Manager)  
Contractor: TERRY Environmental Services, Inc. UST Contractor Certification Number: UCC-0223

Facility Name: Hot Spot #3005 UST Permit #: 12719  
Facility Address: 107 Hampton Street, Chesnee, South Carolina 29323  
Responsible Party: RL Jordan Oil Co. of NC (Contact. Ms. Cyndi Suttles) Phone: 864-585-2784  
RP Address: PO Box 2527, Spartanburg, SC 29304  
Property Owner (if different): EJ Enterprises Inc.  
Property Owner Address: PO Box 2527, Spartanburg, SC 29304  
Current Use of Property: Commercial

Scope of Work (Please check all that apply)

- IGWA
- Tier I
- Tier II
- Monitoring Well Installation
- Groundwater Sampling
- Other \_\_\_\_\_
- GAC

Analyses (Please check all that apply)

Groundwater/Surface Water:

- BTEXNMDCA (8260B)
- Oxygenates (8260B)
- EDB (8011)
- PAH (8270D)
- Lead
- 8 RCRA Metals
- TPH
- pH
- BOD
- Nitrate
- Sulfate
- Other \_\_\_\_\_
- Methane
- Ethanol
- Dissolved Iron

Drinking Water Supply Wells:

- BTEXNMDCA (524.2)
- Oxygenates & Ethanol (8260B)
- Mercury (200.8 245.1 or 245.2)
- RCRA Metals (200.8)
- EDB (504.1)

Soil:

- BTEXNM
- PAH
- Lead
- Oil & Grease (9071)
- RCRA Metals
- TPH-DRO (3550B/8015B)
- TPH-GRO (5030B/8015B)
- Grain Size
- TOC

Air:

- BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

|    |                  |    |                    |    |           |   |             |
|----|------------------|----|--------------------|----|-----------|---|-------------|
| -- | Soil             | -- | Water Supply Wells | -- | Air       | 2 | Field Blank |
| 33 | Monitoring Wells | 1  | Surface Water      | 2  | Duplicate | 2 | Trip Blank  |

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: -- Estimated Footage: -- feet per point  
 # of deep points proposed: -- Estimated Footage: -- feet per point  
 Field Screening Methodology: --

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: -- Estimated Footage: -- feet per point  
 # of deep wells: -- Estimated Footage: -- feet per point  
 # of recovery wells: -- Estimated Footage: -- feet per point

Comments, if warranted:



UST Permit # 12719 Facility Name: Hot Spot #3005

**Implementation Schedule** (Number of calendar days from approval)

Field Work Start-Up: 14-30 days Field Work Completion: 30-45 days  
Report Submittal: 60 days # of Copies Provided to Property Owners: RP only

**Aquifer Characterization**

Pump Test:  Slug Test:  (Check one and provide explanation below for choice)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Investigation Derived Waste Disposal**

Soil: -- Tons Purge Water: 55 Gallons  
Drilling Fluids: -- Gallons Free-Phase Product: -- Gallons

**Additional Details For This Scope of Work**

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

Conduct a comprehensive groundwater sampling event: shallow monitoring wells MW-1R, MW-2R, MW-3R, MW-4 through MW-7, MW-8R, MW-9, MW-10, MW-10R, MW-11, MW-11R, MW-12 through MW-25, deep monitoring wells MW-1D, DW-2, and DW-3; recovery wells RW-1 through RW-3, and the surface water feature (SW-1) will be sampled. The existing monitoring wells were last sampled September 2019 and will only require purging if the water table is not bracket by the screened interval.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**

Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.  
Name of Laboratory: \_\_\_\_\_  
SCDHEC Certification Number: \_\_\_\_\_  
Name of Laboratory Director: \_\_\_\_\_

\_\_\_\_ Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.  
Name of Well Driller: \_\_\_\_\_  
SCLLR Certification Number: \_\_\_\_\_

\_\_\_\_ Other variations from ACQAP. Please describe below.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attachments**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:  
North Arrow Proposed monitoring well locations  
Location of property lines Legend with facility name and address, UST permit number, and bar scale  
Location of buildings Streets or highways (indicate names and numbers)  
Previous soil sampling locations Location of all present and former ASTs and USTs  
Previous monitoring well locations Location of all potential receptors  
Proposed soil boring locations
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



**ASSESSMENT COMPONENT INVOICE**

**SOUTH CAROLINA**

Department of Health and Environmental Control  
 Underground Storage Tank Management Division  
 State Underground Petroleum Environmental Response Bank Account  
 June 15, 2017

**Facility Name:** Hot Spot #3005

**UST Permit #:** 12719

**Cost Agreement #:** Proposed

| ITEM   | QUANTITY | UNIT              | UNIT PRICE | TOTAL      |
|--|----------|-------------------|------------|------------|
| <b>1. Plan Preparation</b>   |          |                   |            |            |
| A1. Site-specific Work Plan  | 1        | each              | \$150.00   | \$150.00   |
| B1 Tax Map   |          | each              | \$70.00    | \$0.00     |
| C1. Tier II or Comp. Plan /QAPP Appendix B   |          | each              | \$250.00   | \$0.00     |
| <b>2. A1. Receptor Survey *</b>  |          | each              | \$551.00   | \$0.00     |
| <b>3. Survey (500 ft x 500 ft)</b>   |          |                   |            |            |
| A1. Comprehensive Survey   |          | each              | \$1,040.00 | \$0.00     |
| B. Subsurface Geophysical Survey   |          |                   |            |            |
| 1B. < 10 meters below grade  |          | each              | \$1,300.00 | \$0.00     |
| 2B. > 10 meters below grade  |          | each              | \$2,310.00 | \$0.00     |
| C1. Geophysical UST or Drum Survey   |          | each              | \$910.00   | \$0.00     |
| <b>4. Mob/Demob</b>  |          |                   |            |            |
| A1. Equipment  |          | each              | \$1,020.00 | \$0.00     |
| B1. Personnel (10x2, 17)   | 3        | each              | \$423.00   | \$1,269.00 |
| C1. Adverse Terrain Vehicle  |          | each              | \$500.00   | \$0.00     |
| <b>5. A1. Soil Borings (hand auger)*</b>   |          | foot              | \$5.00     | \$0.00     |
| <b>6. Soil Borings (requiring equipment, push technology, etc)* or<br/>Field Screening (including water sample, soil sample, soil gas sample, etc.)*</b> |          |                   |            |            |
| AA. Standard   |          | per foot          | \$15.00    | \$0.00     |
| C1. Fractured Rock   |          | per foot          | \$20.20    | \$0.00     |
| <b>7. A1. Soil Leachability Model</b>  |          | each              | \$60.00    | \$0.00     |
| <b>8. Abandonment (per foot)*</b>  |          |                   |            |            |
| A1. 2" diameter or less  |          | per foot          | \$3.10     | \$0.00     |
| B1. Greater than 2" to 6" diameter   |          | per foot          | \$4.50     | \$0.00     |
| C1. Dug/Bored well (up to 6 feet diameter)   |          | per foot          | \$15.00    | \$0.00     |
| <b>9. Well Installation (per foot)*</b>  |          |                   |            |            |
| A1. Water Table (hand augered)   |          | per foot          | \$10.60    | \$0.00     |
| B1. Water Table (drill rig)  |          | per foot          | \$38.00    | \$0.00     |
| CC. Telescoping  |          | per foot          | \$50.00    | \$0.00     |
| DD. Rock Drilling  |          | per foot          | \$58.00    | \$0.00     |
| E1. 2" Rock Coring   |          | per foot          | \$30.90    | \$0.00     |
| G1. Rock Multi-sampling ports/screens  |          | per foot          | \$33.40    | \$0.00     |
| HH. Recovery Well (4" diameter)  |          | per foot          | \$45.00    | \$0.00     |
| II. Pushed Pre-packed screen (1.25" dia)   |          | per foot          | \$15.00    | \$0.00     |
| J1. Rotosonic (2" diameter)  |          | per foot          | \$44.00    | \$0.00     |
| K. Re-develop Existing Well  |          | per foot          | \$11.00    | \$0.00     |
| <b>10. Groundwater Sample Collection / Gauge Depth to Water or Product *</b>   |          |                   |            |            |
| A1. Groundwater Purge  | 3        | per well/receptor | \$60.00    | \$180.00   |
| B1. Air or Vapors  |          | per receptor      | \$12.00    | \$0.00     |
| C1. Water Supply   |          | per well/receptor | \$22.00    | \$0.00     |
| D1. Groundwater NP (30), SW (1), or Dup (2)  | 33       | per well/receptor | \$28.00    | \$924.00   |
| E1. Gauge Well only  |          | per well          | \$7.00     | \$0.00     |
| F1. Sample Below Product   |          | per well          | \$12.00    | \$0.00     |
| G1. Passive Diffusion Bag  |          | each              | \$26.00    | \$0.00     |
| H1. Field Blank  | 2        | each              | \$24.60    | \$49.20    |
| i. Groundwater (low flow purge)  |          | per well/receptor | \$91.00    | \$0.00     |

|   |    |            |          |            |
|---|----|------------|----------|------------|
| <b>11. Laboratory Analyses-Groundwater</b>        |    |            |          |            |
| A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)              | 40 | per sample | \$122.00 | \$4,880.00 |
| AA1. Lead, Filtered                               |    | per sample | \$13.80  | \$0.00     |
| B2. Rush EPA Method 8260B (All of item A.)        |    | per sample | \$153.60 | \$0.00     |
| C2. Trimethyl, Butyl, and Isopropyl Benzenes      |    | per sample | \$36.40  | \$0.00     |
| D1. PAH's   |    | per sample | \$60.60  | \$0.00     |
| E1. Lead  |    | per sample | \$16.00  | \$0.00     |
| F1. EDB by EPA 8011                               |    | per sample | \$45.20  | \$0.00     |
| FF1. EDB by EPA Method 8011 Rush                  |    | per sample | \$68.20  | \$0.00     |
| G1. 8 RCRA Metals                                 |    | per sample | \$63.40  | \$0.00     |
| H1. TPH (9070)                                    |    | per sample | \$41.00  | \$0.00     |
| II. pH  |    | per sample | \$5.20   | \$0.00     |
| J1. BOD   |    | per sample | \$20.00  | \$0.00     |
| PP. Ethanol                                       |    | per sample | \$14.80  | \$0.00     |
| <b>11. Analyses-Drinking Water</b>                |    |            |          |            |
| L. BTEXNM+1,2 DCA (524.2)                         |    | per sample | \$124.05 | \$0.00     |
| M. 7-OXYGENATES & ETHANOL (8260B)                 |    | per sample | \$91.75  | \$0.00     |
| N. EDB (504.1)                                    |    | per sample | \$79.50  | \$0.00     |
| O. RCRA METALS (200.8)                            |    | per sample | \$100.00 | \$0.00     |
| <b>11. Analyses-Soil</b>                          |    |            |          |            |
| Q1. BTEX + Naphth.                                |    | per sample | \$64.00  | \$0.00     |
| R1. PAH's   |    | per sample | \$64.04  | \$0.00     |
| S1. 8 RCRA Metals                                 |    | per sample | \$56.40  | \$0.00     |
| U1. TPH-DRO (3550C/8015C)                         |    | per sample | \$40.00  | \$0.00     |
| V1. TPH- GRO (5030B/8015C)                        |    | per sample | \$35.96  | \$0.00     |
| W1. Grain size/hydrometer                         |    | per sample | \$104.00 | \$0.00     |
| X1. Total Organic Carbon                          |    | per sample | \$30.60  | \$0.00     |
| <b>11. Analyses-Air</b>                           |    |            |          |            |
| Y1. BTEX + Naphthalene                            |    | per sample | \$216.00 | \$0.00     |
| <b>11. Analyses-Free Phase Product</b>            |    |            |          |            |
| Z1. Hydrocarbon Fuel Identification               |    | per sample | \$357.00 | \$0.00     |
| <b>12. Aquifer Characterization</b>               |    |            |          |            |
| A1. Pumping Test*                                 |    | per hour   | \$23.00  | \$0.00     |
| B1. Slug Test*                                    |    | per test   | \$191.00 | \$0.00     |
| C1. Fractured Rock                                |    | per test   | \$100.00 | \$0.00     |
| <b>13. A1. Free Product Recovery Rate Test*</b>   |    | each       | \$38.00  | \$0.00     |
| <b>14. Fate/Transport Modeling</b>                |    |            |          |            |
| A1. Mathematical Model                            |    | each       | \$100.00 | \$0.00     |
| B1. Computer Model                                |    | each       | \$100.00 | \$0.00     |
| <b>15. Risk Evaluation</b>                        |    |            |          |            |
| A. Tier I Risk Evaluation                         |    | each       | \$300.00 | \$0.00     |
| B1. Tier II Risk Evaluation                       |    | each       | \$100.00 | \$0.00     |
| <b>16. A1. Subsequent Survey*</b>                 |    | each       | \$260.00 | \$0.00     |
| <b>17. Disposal (gallons or tons)*</b>            |    |            |          |            |
| AA. Wastewater                                    | 55 | gallon     | \$0.56   | \$30.80    |
| BB. Free Product                                  |    | gallon     | \$0.50   | \$0.00     |
| C1. Soil Treatment/Disposal                       |    | ton        | \$60.00  | \$0.00     |
| D1. Drilling fluids                               |    | gallon     | \$0.42   | \$0.00     |
| <b>18. Miscellaneous (attach receipts)</b>        |    |            |          |            |
|   |    | each       | \$0.00   | \$0.00     |
|   |    | each       | \$0.00   | \$0.00     |
|   |    | each       | \$0.00   | \$0.00     |
| <b>20. Tier I Assessment (Use DHEC 3665 form)</b> |    | standard   |          | \$0.00     |
| <b>21. IGWA (Use DHEC 3666 form)</b>              |    | standard   |          | \$0.00     |
| <b>22. Corrective Action (Use DHEC 3667 form)</b> |    | FPF Bid    |          | \$0.00     |

|  |     |           |             |  |                   |
|--|-----|-----------|-------------|--|-------------------|
| <b>23. Aggressive Fluid &amp; Vapor Recovery (AFVR)</b>                                |     |           |             |  |                   |
| A1. 8-hour Event*  |     | each      | \$1,375.00  |  | \$0.00            |
| AA. 24-hour Event*   |     | each      | \$3,825.00  |  | \$0.00            |
| A3. 48-hour Event*   |     | each      | \$6,265.00  |  | \$0.00            |
| A4. 96-hour Event*   |     | each      | \$12,567.50 |  | \$0.00            |
| C1. Off-gas Treatment 8 hour   |     | per event | \$122.50    |  | \$0.00            |
| C2. Off-gas Treatment 24 hour  |     | per event | \$241.50    |  | \$0.00            |
| C3. Off-gas Treatment 48 hour  |     | per event | \$327.00    |  | \$0.00            |
| C4. Off-gas Treatment 96 hour  |     | per event | \$780.00    |  | \$0.00            |
| D. Site Reconnaissance   |     | each      | \$203.25    |  | \$0.00            |
| E1. Additional Hook-ups  |     | each      | \$25.75     |  | \$0.00            |
| F1. Effluent Disposal  |     | gallon    | \$0.44      |  | \$0.00            |
| G. AFVR Mobilization/Demobilization  |     | each      | \$391.50    |  | \$0.00            |
| <b>24. Granulated Activated Carbon (GAC) filter system installation &amp; service:</b> |     |           |             |  |                   |
| A1. New GAC System Installation*   |     | each      | \$1,900.00  |  | \$0.00            |
| BB. Refurbished GAC Sys. Install*  |     | each      | \$900.00    |  | \$0.00            |
| C1. Filter replacement/removal*  |     | each      | \$350.00    |  | \$0.00            |
| DD. GAC System removal, cleaning, & refurbishment*                                     |     | each      | \$275.00    |  | \$0.00            |
| E1. GAC System housing*  |     | each      | \$250.00    |  | \$0.00            |
| F. In-line particulate filter  |     | each      | \$150.00    |  | \$0.00            |
| G1. Additional piping & fittings   |     | foot      | \$1.50      |  | \$0.00            |
| <b>25. Well Repair</b>   |     |           |             |  |                   |
| A1. Additional Copies of the Report Delivered  |     | each      | \$50.00     |  | \$0.00            |
| B1. Repair 2x2 MW pad*   |     | each      | \$50.00     |  | \$0.00            |
| C1. Repair 4x4 MW pad*   |     | each      | \$88.00     |  | \$0.00            |
| D1. Repair well vault*   |     | each      | \$118.00    |  | \$0.00            |
| F1. Replace well cover bolts   |     | each      | \$2.60      |  | \$0.00            |
| G. Replace locking well cap & lock   |     | each      | \$15.00     |  | \$0.00            |
| H1. Replace/Repair stick-up*   |     | each      | \$134.00    |  | \$0.00            |
| II. Convert Flush-mount to Stick-up*   |     | each      | \$150.00    |  | \$0.00            |
| J1. Convert Stick-up to Flush-mount*   |     | each      | \$130.00    |  | \$0.00            |
| K1. Replace missing/illegible well ID plate  |     | each      | \$12.00     |  | \$0.00            |
| <b>Report Prep &amp; Project Coordination</b>  | 12% | percent   | \$7,483.00  |  | \$897.96          |
| <b>TOTAL</b>   |     |           |             |  | <b>\$8,380.96</b> |

\*The appropriate mobilization cost can be added to complete these tasks, as necessary.

DHEC



Image courtesy of the U.S. Geological Survey



## FIGURE 1 TOPOGRAPHIC MAP

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

providing our clients with the best services available,  
actually understanding our clients objectives,  
and making their objectives our own!

SIZE TERRY Project No.  
B 2230.8L

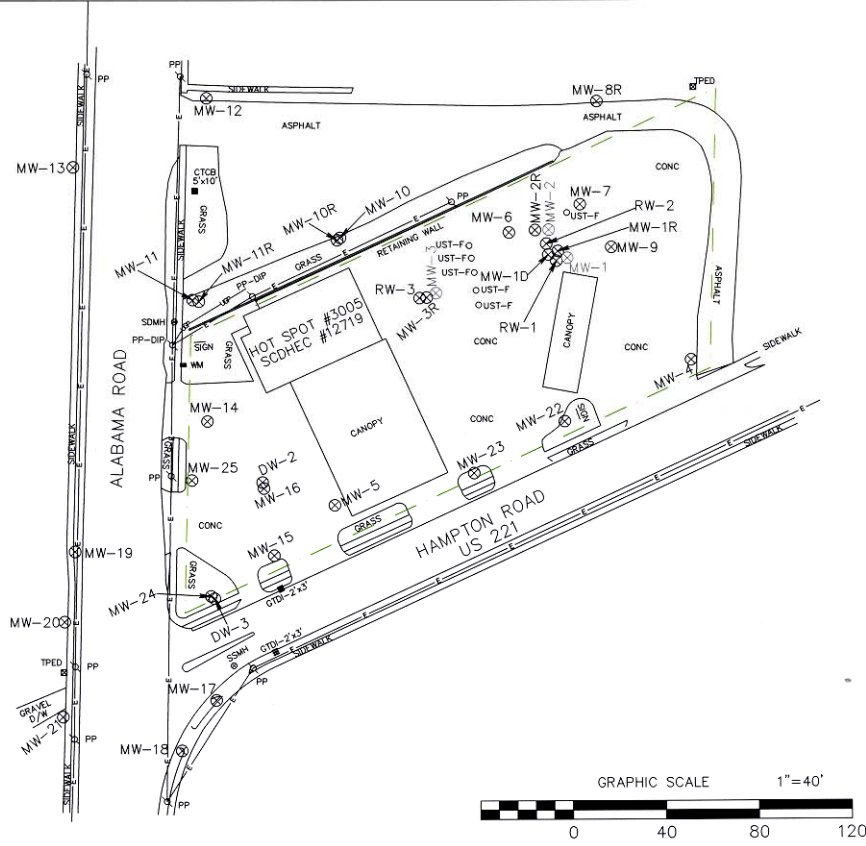
DWG NO. Figure 1 Topographic Map

REV

PO Box 25  
Summerville, South Carolina 29484  
(803) 325-0626 (843)-873-8200 fax: (843)-873-8785

SCALE: As Shown

DATE: October 2019



**LEGEND & ABBREVIATIONS:**

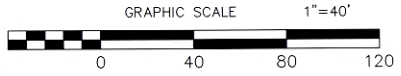
- ⊗ MW = MONITORING WELL
  - ⊗ ABANDONED MONITORING WELL
  - ⊗ TPED = TELEPHONE PEDESTAL
  - ⊗ SDMH = STORM DRAIN MAN HOLE
  - ⊗ SSMH = SANITARY SEWER MAN HOLE
  - WM = WATER METER
  - PP = POWER POLE
  - ⊙ LP = LIGHT POLE
  - GM = GAS METER
  - GV = GAS VALVE
  - UST/F = UNDERGROUND STORAGE TANK FILL
  - GTCB = GRATE TOP CATCH BASIN
  - SIGN = SIGN
  - KD = KEROSENE DISPENSER
  - E — = OVERHEAD POWER LINE
  - UG — = UNDERGROUND POWER LINE
  - — — — — APPROXIMATE PROPERTY LINE
- ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (ie. 12719-MW 1)



**FIGURE 2  
SITE BASE MAP**

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

|                 |                  |
|-----------------|------------------|
| TERRY PROJECT # | SCDHEC SITE ID # |
| 2230.8L         | 12719            |
| SCALE           | DATE             |
| 1" = 40'        | October 2019     |





CYNDI SUTTLES  
RL JORDAN OIL COMPANY OF NC  
PO BOX 2527  
SPARTANBURG SC 29304

NOV 07 2019

Re: **Notice to Proceed with Groundwater Sampling**  
Hot Spot #3005, 107 Hampton St., Chesnee, SC  
UST Permit # 12719, CA # 60573  
Release reported August 4, 2003  
SSWP Received October 21, 2019  
Spartanburg County

Dear Ms. Suttles:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site-Specific Work Plan (SSWP) submitted by Terry Environmental Services, Inc. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), Terry Environmental's approved SSWP and Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/>

The assessment should begin immediately upon receipt of this letter. Cost agreement #60573 has been approved for the amount shown on the enclosed cost agreement form.

**The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.**

**The assessment report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the Division within sixty (60) days of the date of this correspondence.** The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

Terry Environmental can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Division for the cost to be paid. The Division reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Division reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by a DHEC-certified site rehabilitation contractor as required by R.61-98.

The Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the Chemical of Concern (CoC) concentrations based on laboratory analysis is below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on-site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference UST Permit #12719. If there are any questions concerning this project, please contact me at (803) 898-0592 or by email at [edgarsk@dhec.sc.gov](mailto:edgarsk@dhec.sc.gov).

Sincerely,

A handwritten signature in black ink that reads "Sedona Edgar". The signature is written in a cursive, flowing style.

Sedona Edgar, Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
UST Management Division  
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484 (w/enc)  
Technical file (w/enc)



**Approved Cost Agreement****60573**

Facility: 12719 HOT SPOT 3005

EDGARSK

PO Number:

| <u>Task / Description</u>         | <u>Categories</u> | <u>Item Description</u>           | <u>Qty / Pct</u> | <u>Unit Price</u>   | <u>Amount</u>   |
|-----------------------------------|-------------------|-----------------------------------|------------------|---------------------|-----------------|
| 01 PLAN                           |                   | A1 SITE SPECIFIC WORK PLAN        | 1.0000           | \$150.000           | 150.00          |
| 04 MOB/DEMOB                      |                   | B1 PERSONNEL                      | 3.0000           | \$423.000           | 1,269.00        |
| 10 SAMPLE COLLECTION              |                   | A1 GROUNDWATER (PURGE)            | 3.0000           | \$60.000            | 180.00          |
|                                   |                   | D1 GROUNDWATER NO PURGE/DUPLICATE | 33.0000          | \$28.000            | 924.00          |
|                                   |                   | H1 FIELD BLANK                    | 2.0000           | \$24.600            | 49.20           |
| 11 ANALYSES                       |                   |                                   |                  |                     |                 |
|                                   | GW GROUNDWATER    | A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B | 40.0000          | \$122.000           | 4,880.00        |
| 17 DISPOSAL                       |                   |                                   |                  |                     |                 |
|                                   |                   | AA WASTEWATER                     | 55.0000          | \$0.560             | 30.80           |
| 19 RPT/PROJECT MNGT & COORDINATIO |                   |                                   |                  |                     |                 |
|                                   |                   | PRT REPORT PREPARATION            | 0.1200           | \$7,483.000         | 897.96          |
|                                   |                   |                                   |                  | <b>Total Amount</b> | <b>8,380.96</b> |

# Document Receipt Information

Hard Copy

CD

Email

Date Received 1-22-20

Permit Number 12719

Project Manager Sedona Edgar

Name of Contractor TES

UST Certification Number \_\_\_\_\_

Docket Number 1024ech

Scanned \_\_\_\_\_

GWM report

**GROUNDWATER MONITORING REPORT  
HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719  
CA #60573**

Prepared For:

**SCDHEC UNDERGROUND STORAGE TANK PROGRAM  
2600 BULL ST.  
COLUMBIA, SC 29201**

Submitted By:



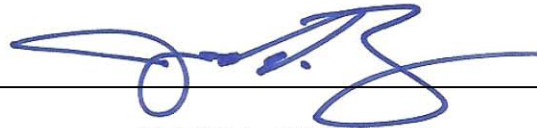
P.O. BOX 25  
SUMMERVILLE, SOUTH CAROLINA 29484  
(843) 873-8200  
Fax (843) 225-3472  
[www.terryenvironmental.com](http://www.terryenvironmental.com)

UST CONTRACTOR #UCC-0223  
TERRY PROJECT #2230.8L



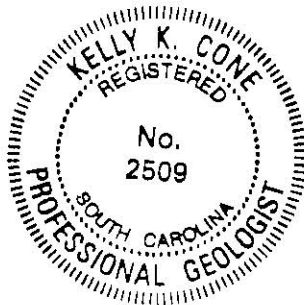
---

**KELLY K. CONE, PG  
Vice President**



---

**JASON A. TERRY, PG  
President**



**JANUARY 2020**

**TABLE OF CONTENTS**

| SECTION | DESCRIPTION   | PAGE |
|---------|---|------|
| A.      | INTRODUCTIO   | 1    |
|         | N   |      |
| 1.      | UST Facility and Owner/Operator Information               | 1    |
| 2.      | Property Owner Information                                | 1    |
| 3.      | Contractor Information                                    | 1    |
| 4.      | Well Driller Information                                  | 1    |
| 5.      | Laboratory Information                                    | 1    |
| 6.      | Site History  | 1    |
| 7.      | Regional Geology and Hydrogeology                         | 2    |
| B.      | RECEPTOR SURVEY & SITE DATA                               | 3    |
| 1.      | Receptor Survey Results                                   | 3    |
| 2.      | Current Site and Adjacent Land Use                        | 3    |
| 3.      | Site-Specific Geology and Hydrogeology                    | 3    |
| C.      | SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY | 4    |
| D.      | MONITORING WELL INFORMATION                               | 4    |
| E.      | GROUNDWATER DATA  | 5    |
| 1.      | Groundwater Sampling Methodology                          | 5    |
|         | E-1 Groundwater Measurements (No Purge Sampling)          | 6    |
| 2.      | Purging Methodology                                       | 7    |
|         | E-2 Groundwater Measurements (Purge Sampling)             | 8    |
| 3.      | Free Product Measurements                                 | 10   |
| F.      | AFVR INFORMATION  | 11   |
| G.      | GRANULATED ACTIVATED CARBON INSTALLATION                  | 11   |
| H.      | RESULTS & DISCUSSION                                      | 12   |
| 1.      | Assessment Results  | 12   |
| 2.      | Aquifer Evaluation Results                                | 12   |
| 3.      | Fate & Transport Results                                  | 12   |
| 4.      | Tier 1 Risk Evaluation                                    | 12   |
| 5.      | Tier 2 Risk Evaluation                                    | 12   |
| I.      | TABLES  | 13   |
| 1.      | Soil Analytical Data                                      | 13   |
| 2.      | Potentiometric Data                                       | 13   |
|         | Table 2 Groundwater Potentiometric Data                   | 13   |
| 3.      | Laboratory Data   | 13   |
|         | Table 3 Groundwater Laboratory Data                       | 13   |
| 4.      | Aquifer Characteristics                                   | 13   |
| 5.      | Site Conceptual Model                                     | 13   |
| J.      | FIGURES   | 14   |
| 1.      | Topographic Map   | 14   |
|         | Figure 1 Topographic Map                                  | 14   |
| 2.      | Site Base Map   | 14   |
|         | Figure 2 Site Base Map                                    | 14   |
| 3.      | CoC Site Maps   | 14   |
|         | Figure 3 Soil CoC Map                                     | 14   |
|         | Figure 4A Groundwater CoC Map                             | 14   |
|         | Figure 4B Groundwater CoC Map (Oxygenates)                | 14   |

**TABLE OF CONTENTS (cont.)**

| SECTION | DESCRIPTION  | PAGE |
|---------|--|------|
| 4.      | Site Potentiometric Maps _____                           | 14   |
|         | Figure 5 Site Potentiometric Map _____                   | 14   |
| 5.      | Geologic Cross-Sections _____                            | 14   |
| 6.      | Predicted Migration and Attenuation of CoCs _____        | 14   |
| K.      | Appendices _____   | 15   |
| 1.      | Appendix A: Site Survey _____                            | 15   |
| 2.      | Appendix B: Sampling Logs and Laboratory Data _____      | 15   |
| 3.      | Appendix C: Tax Map _____                                | 15   |
| 4.      | Appendix D: Soil Boring/Field Screening Logs _____       | 15   |
| 5.      | Appendix E: Well Completion Logs/SCDHEC 1903 Forms _____ | 15   |
| 6.      | Appendix F: Aquifer Evaluation Forms _____               | 15   |
| 7.      | Appendix G: Disposal Manifest _____                      | 15   |
| 8.      | Appendix H: Local Zoning Regulations _____               | 15   |
| 9.      | Appendix I: Fate and Transport Modeling Data _____       | 15   |
| 10.     | Appendix J: Access Agreements _____                      | 15   |
| 11.     | Appendix K: Data Verification Checklist _____            | 15   |

**A. INTRODUCTION**
**1. UST Facility and Owner/Operator Information**

Facility Name (Permit #): Hot Spot #3005 (12719)  
 Facility Address: 107 Hampton Street, Chesnee, South Carolina 29323  
 Facility Telephone: 864-461-4147  
  
 Owner/ Operator Name: RL Jordan Oil Co. of NC (Contact: Ms. Cyndi Suttles)  
 Owner/ Operator Address: PO Box 2527, Spartanburg, SC 29304  
 Owner/ Operator Telephone: 864-585-2784

**2. Property Owner Information**

Name: EJ Enterprises Inc.  
 Address: PO Box 2527, Spartanburg, SC 29304  
 Telephone: 864-585-2784

**3. Contractor Information**

Name: Terry Environmental Services, Inc.  
 Address: P.O. Box 25, Summerville, South Carolina 29484  
 Telephone: 843-873-8200  
 Certification: UCC-0223

**4. Well Driller Information**

Not Applicable

**5. Laboratory Information**

Name: Shealy Environmental Labs  
 Address: 106 Vantage Point Drive, West Columbia, SC 29172  
 Telephone: 803-791-9700  
 Certification: 32010

**6. Site History**

Date Release Reported to SCDHEC: August 4, 2003  
 Estimated Quantity of Product Released: Unknown  
 Cause of Release: Unknown  
 Current use of Facility: Gas Station and Convenience Store (Hot Spot)

| UST #          | Product           | Date Installed | Currently In Use<br>(Yes or No) | If not in use, Date<br>Removed |
|----------------|-------------------|----------------|---------------------------------|--------------------------------|
| 1 (12,000 gal) | Unleaded Gasoline | 8/6/1990       | Yes                             | -                              |
| 2 (8,000 gal)  | Plus Gasoline     | 8/6/1990       | Yes                             | -                              |
| 3 (8,000 gal)  | Premium Gasoline  | 8/6/1990       | Yes                             | -                              |
| 4 (8,000 gal)  | Diesel            | 8/6/1990       | Yes                             | -                              |
| 5 (8,000 gal)  | Kerosene          | 8/6/1990       | Yes                             | -                              |
| 6 (12,000 gal) | Diesel            | 10/3/1991      | Yes                             | -                              |

Other Releases at this site?      Yes XXXX      No \_\_\_\_\_  
If yes, Date Release Reported to SCDHEC      November 3, 1993  
**Status of Release:**      Feb. 2002 Brook & Medlock selected as CA contractor.  
No Further Action Date:      N/A

**7. Regional Geology and Hydrogeology**

The Hot Spot #3005 site is located in Chesnee which lies in the Western Piedmont Province of South Carolina. The western piedmont is comprised of the Inner Piedmont block, the Smith River allochthon, and the Sauratwon Mountain window. The Inner Piedmont block encompasses the Inner Piedmont belt and the Chauga belt, and consists of a composite stack of thrust sheets containing a variety of gneisses, schists, amphibolites, sparse ultramafic bodies, and intrusive granitoids. (The Geology of the Carolinas, Horton & Zullo, 1991)

The Hot Spot #3005 site is located in the Inner Piedmont Belt which is characterized by granitic, biotitic, and hornblendic rocks. Generally, wells drilled in the Inner Piedmont Belt of Spartanburg County yield 1 to 250 gallons per minute (gpm). The highest average yields (35 gpm) were obtained from wells drilled in biotite gneiss and migmatite with the lowest average yields from wells drilled in quartz monzonite. The average yield of all wells inventoried was 20 gpm. The ground waters in Spartanburg County are of good to excellent quality for most domestic, municipal, and industrial uses. (USGS/SCWRC Report 3: Water Resources of Spartanburg County, South Carolina, 1970)

## **B. RECEPTOR SURVEY & SITE DATA**

### **1. Receptor Survey Results**

A receptor survey was not conducted during this scope of work.

### **2. Current Site and Adjacent Land Use**

Description of current site use (commercial, residential, rural, etc.):

Commercial; the site is operating as Hot Spot #3005, a gas station and convenience store.

Description of adjacent land use (commercial, residential, rural, etc):

Commercial and residential.

UST sites within a 1,000-foot radius:

10122 Free Time Convenience Store

The site is located at 107 Hampton Street, Chesnee, South Carolina. The site is bordered to the north by a school, to the east by a vacant field, and to the south and west by commercial and residential properties. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map originating from a comprehensive survey completed by Jay S. Joshi (SC Registered Land Surveyor #14811) of Construction Support Services on June 6, 2018 is provided in Section J as Figure 2.

### **3. Site-Specific Geology and Hydrogeology**

The site-specific stratigraphy generally consists of silt underlain by sandy silt in the deep wells. The Site Potentiometric Map (Figure 5, Section J) from the comprehensive groundwater sampling event indicates that shallow groundwater flow is generally to the west-southwest.



**C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY**

Not Applicable. No soil or groundwater borings were installed during this scope of work.

**D. MONITORING WELL INFORMATION**

Not Applicable. No monitoring wells were installed during this scope of work.

## **E. GROUNDWATER DATA**

### **1. Groundwater Sampling Methodology**

TERRY conducted a comprehensive groundwater sampling event between December 9 and December 11, 2019. Just prior to the sampling event, all monitoring wells were gauged with an oil/water interface probe to determine depth to groundwater measurements and the presence or absence of free-phase petroleum. Water level was recorded to the nearest 0.01 foot and total well depth was recorded to the nearest 0.1 foot. Surface water sample (SW-1) was also collected on December 11, 2019 from the tributary located approximately 575 feet south of the subject site.

Sampling was conducted from the least contaminated wells to the most contaminated wells based on the previous assessment data. A clean purge pump with new disposable tubing was utilized for purging the wells with larger casing volumes and/or adequate recharge rates. Groundwater samples were collected from each monitoring well with a new disposable bailer. Bailers with new colorless nylon rope were slowly lowered into the top of the water column, allowed to fill, and slowly removed to minimize turbidity and disturbance of the volatile organic compounds (VOCs). The surface water sample was collected with a new disposable bailer.

Trip blanks, field blanks, and field duplicates were prepared or collected in accordance with the SCDHEC UST QAPP, Revision 3.1. One trip blank was shipped with each cooler and analyzed for VOCs. One field blank was collected for each sampling day and analyzed for VOCs. One field duplicate was collected for each batch of twenty samples and analyzed for VOCs.

Samples were immediately packed in a cooler of ice and proper temperatures were maintained in accordance with the SCDHEC UST QAPP, Revision 3.1 and the site-specific Addendum. At the completion of the sampling event, the samples were submitted to a SCDHEC certified laboratory for analyses. The samples were analyzed for Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, Methyl tertiary butyl ether, 1,2-Dichloroethane, Oxygenates, and Ethanol.

Field conditions were documented throughout the sampling event. All field measurement equipment was properly cleaned and decontaminated before use, between each well, and prior to site departure in accordance with "Appendix H: Standard Field Cleaning Procedures" of the SCDHEC UST QAPP, Revision 3.1. By-products were initially stored onsite in 55-gallon drums and transported to US Water Recovery for disposal. The field measurement equipment was properly calibrated prior to the sampling event each day, after four (4) hours of use, and at the completion of the event each day. The calibration and verification data for the sampling event are provided in Appendix B.

Depth to groundwater measurements were taken with reference to the top of well casing (TOC) and converted to elevations by subtracting the depth to groundwater measurements from the TOC elevations. Potentiometric data are provided in Section I as Table 2 and on the Groundwater Sampling Logs provided in Appendix B. The groundwater measurements collected during the sampling event for the no-purge wells are provided as follows:

| SECTION E -1<br>GROUNDWATER MEASUREMENTS (NO PURGE SAMPLING)<br>HOT SPOT #3005<br>CHESNEE, SOUTH CAROLINA<br>SCDHEC UST PERMIT #12719 |            |                        |                      |                   |           |                  |
|---|------------|------------------------|----------------------|-------------------|-----------|------------------|
| Well  | Date       | pH                     | Specific Conductance | Water Temperature | Turbidity | Dissolved Oxygen |
| Units   | --         | su                     | mS/cm                | °C                | NTU       | mg/L             |
| 12719-MW2R  | 12/10/2019 | 5.21                   | 0.347                | 18.0              | 82.9      | 2.98             |
| 12719-MW3R  | 12/11/2019 | 5.76                   | 0.294                | 16.8              | 120       | 2.11             |
| 12719-MW5   | 12/11/2019 | 6.07                   | 0.070                | 16.4              | 496       | 3.30             |
| 12719-MW10  | 12/9/2019  | 4.45                   | 0.078                | 17.7              | 32.7      | 2.13             |
| 12719-MW11  | 12/9/2019  | 4.63                   | 0.041                | 17.8              | 21.9      | 3.69             |
| 12719-MW13  | 12/9/2019  | 4.00                   | 0.219                | 15.8              | 116       | 6.75             |
| 12719-MW14  | 12/10/2019 | 3.90                   | 0.240                | 16.9              | 181       | 3.08             |
| 12719-MW15  | 12/10/2019 | 4.83                   | 0.053                | 18.2              | 496       | 3.30             |
| 12719-MW16  | 12/11/2019 | 4.91                   | 0.109                | 18.7              | 499       | 3.07             |
| 12719-MW17  | 12/9/2019  | 4.85                   | 0.052                | 16.4              | 162       | 5.35             |
| 12719-MW18  | 12/9/2019  | 5.20                   | 0.077                | 16.7              | 114       | 4.29             |
| 12719-MW19  | 12/10/2019 | 4.69                   | 0.093                | 17.5              | 265       | 4.96             |
| 12719-MW20  | 12/10/2019 | 4.75                   | 0.099                | 18.1              | 471       | 3.97             |
| 12719-MW21  | 12/10/2019 | 4.58                   | 0.108                | 18.2              | 407       | 4.51             |
| 12719-MW22  | 12/10/2019 | 5.13                   | 0.071                | 18.3              | 36.1      | 3.64             |
| 12719-MW23  | 12/10/2019 | 5.32                   | 0.081                | 17.7              | 266       | 3.55             |
| 12719-MW24  | 12/10/2019 | 5.84                   | 0.103                | 18.5              | 143       | 3.69             |
| 12719-MW25  | 12/10/2019 | 4.32                   | 0.118                | 17.7              | 496       | 5.25             |
| 12719-RW1   | 12/11/2019 | Free Product (0.10 ft) |                      |                   |           |                  |
| 12719-RW2   | 12/11/2019 | 4.58                   | 0.203                | 16.7              | 95.7      | 2.70             |
| 12719-RW3   | 12/11/2019 | 5.31                   | 0.166                | 17.6              | 171       | 2.62             |

**NOTES/KEY:**

su = standard unit

mS/cm = milliSiemens per centimeter

NTU = nephelometric turbidity units

mg/L = milligrams per liter

## **2. Purging Methodology**

Purging was conducted from the least contaminated wells to the most contaminated wells based on the previous assessment data. Prior to purging, new plastic sheeting was placed on the ground surface around the well to prevent contamination of pumps, hoses, meters, etc. For monitoring wells with smaller casing volumes and/or slow recharge rates, a new disposable bailer was utilized for purging. When utilized, the purge pump was lowered approximately 3-5 feet into the standing water column and adjusted only if the pumping rate exceeded the recovery rate as drawdown occurred. In accordance with the SCDHEC UST QAPP, Revision 3.1, an adequate purge was achieved when pH, specific conductance, and temperature of the groundwater stabilized, and turbidity either stabilized or was below 10 nephelometric turbidity units (NTUs). The purge water generated was initially stored onsite in 55-gallon drums. The water generated was transported to US Water Recovery for disposal and the disposal manifest is provided in Appendix G.

If a well was pumped or purged dry, even with reduced purge rates, the well was considered adequately purged per the SCDHEC UST QAPP, Revision 3.1. The sample was collected immediately following sufficient recovery to fill all sampling containers. The groundwater measurements collected during the sampling event for the purged wells are provided as follows:

| SECTION E - 2<br>GROUNDWATER MEASUREMENTS (PURGE SAMPLING)<br>HOT SPOT #3005<br>CHESNEE, SOUTH CAROLINA<br>SCDHEC UST PERMIT #12719 |                   |       |       |          |          |              |
|---|-------------------|-------|-------|----------|----------|--------------|
| <b>12719-MW1R</b>   | <b>12/11/2019</b> |       |       |          |          |              |
| Volume (gal)  | Intitial          | 2     | 4     | 6/Sample |          |              |
| Time (military)   | 1019              | 1030  | 1035  | 1040     |          |              |
| pH (su)   | 5.23              | 5.25  | 5.33  | 5.35     |          |              |
| Spec Conductivity (mS/cm)   | 0.203             | 0.215 | 0.216 | 0.212    |          |              |
| Water Temperature (°C)  | 17.7              | 17.9  | 17.0  | 16.9     |          |              |
| Turbidity (NTU)   | 59.5              | 499   | 497   | 497      |          |              |
| Dissolved Oxygen (mg/L)   | 1.82              | 2.41  | 2.50  | 2.40     |          |              |
| <b>12719-MW4</b>  | <b>12/10/2019</b> |       |       |          |          |              |
| Volume (gal)  | Intitial          | 3.75  | 7.5   | 11.25    | 15.0     | 18.75/Sample |
| Time (military)   | 1131              | 1135  | 1137  | 1141     | 1149     | 1156         |
| pH (su)   | 5.79              | 6.55  | 6.80  | 6.99     | 7.30     | 7.50         |
| Spec Conductivity (mS/cm)   | 0.310             | 0.238 | 0.224 | 0.227    | 0.224    | 0.225        |
| Water Temperature (°C)  | 17.6              | 18.7  | 18.5  | 18.5     | 18.7     | 18.9         |
| Turbidity (NTU)   | 23.2              | 54.7  | 13.6  | 38.2     | 21.2     | 16.7         |
| Dissolved Oxygen (mg/L)   | 2.69              | 2.23  | 4.50  | 4.92     | 4.84     | 3.84         |
| <b>12719-MW6</b>  | <b>12/11/2019</b> |       |       |          |          |              |
| Volume (gal)  | Intitial          | 2     | 4     | 6/Sample |          |              |
| Time (military)   | 0924              | 0932  | 0939  | 0945     |          |              |
| pH (su)   | 4.36              | 4.92  | 4.85  | 4.86     |          |              |
| Spec Conductivity (mS/cm)   | 0.362             | 0.371 | 0.414 | 0.415    |          |              |
| Water Temperature (°C)  | 16.3              | 15.9  | 16.9  | 16.8     |          |              |
| Turbidity (NTU)   | 24.3              | 498   | 490   | 492      |          |              |
| Dissolved Oxygen (mg/L)   | 2.97              | 2.79  | 2.69  | 2.75     |          |              |
| <b>12719-MW7</b>  | <b>12/9/2019</b>  |       |       |          |          |              |
| Volume (gal)  | Intitial          | 2.5   | 5.0   | 7.5      | 10.0     | 12.5/Sample  |
| Time (military)   | 1747              | 1755  | 1802  | 1808     | 1819     | 1828         |
| pH (su)   | 4.14              | 4.31  | 4.53  | 4.60     | 4.66     | 4.66         |
| Spec Conductivity (mS/cm)   | 0.130             | 0.086 | 0.088 | 0.086    | 0.076    | 0.072        |
| Water Temperature (°C)  | 17.8              | 18.9  | 19.4  | 19.2     | 19.1     | 18.7         |
| Turbidity (NTU)   | 380               | 499   | 497   | 463      | 299      | 204          |
| Dissolved Oxygen (mg/L)   | 4.55              | 3.71  | 3.35  | 3.42     | 3.87     | 3.55         |
| <b>12719-MW8R</b>   | <b>12/9/2019</b>  |       |       |          |          |              |
| Volume (gal)  | Intitial          | 2     | 4     | 6        | 8/Sample |              |
| Time (military)   | 1627              | 1633  | 1637  | 1642     | 1647     |              |
| pH (su)   | 4.14              | 4.15  | 4.28  | 4.36     | 4.38     |              |
| Spec Conductivity (mS/cm)   | 0.036             | 0.036 | 0.038 | 0.041    | 0.044    |              |
| Water Temperature (°C)  | 17.4              | 17.6  | 18.6  | 18.2     | 18.6     |              |
| Turbidity (NTU)   | 357               | 499   | 497   | 494      | 498      |              |
| Dissolved Oxygen (mg/L)   | 5.61              | 5.00  | 5.28  | 5.38     | 5.37     |              |
| <b>12719-MW9</b>  | <b>12/10/2019</b> |       |       |          |          |              |
| Volume (gal)  | Intitial          | 2     | 4     | 6/Sample |          |              |
| Time (military)   | 1256              | 1306  | 1314  | 1320     |          |              |
| pH (su)   | 6.58              | 4.97  | 4.97  | 5.02     |          |              |
| Spec Conductivity (mS/cm)   | 0.072             | 0.073 | 0.057 | 0.051    |          |              |
| Water Temperature (°C)  | 18.6              | 19.4  | 19.3  | 19.1     |          |              |
| Turbidity (NTU)   | 4.8               | 499   | 472   | 489      |          |              |
| Dissolved Oxygen (mg/L)   | 4.42              | 3.50  | 3.57  | 3.59     |          |              |

| 12719-MW10R               |          | 12/9/2019  |       |                 |           |           |  |
|---------------------------|----------|------------|-------|-----------------|-----------|-----------|--|
| Volume (gal)              | Intitial | 2          | 4     | 6/Sample        |           |           |  |
| Time (military)           | 1544     | 1549       | 1555  | 1605            |           |           |  |
| pH (su)                   | 4.55     | 4.65       | 4.69  | 4.59            |           |           |  |
| Spec Conductivity (mS/cm) | 0.075    | 0.073      | 0.072 | 0.076           |           |           |  |
| Water Temperature (°C)    | 18.5     | 19.1       | 19.2  | 18.4            |           |           |  |
| Turbidity (NTU)           | 423      | 493        | 498   | 499             |           |           |  |
| Dissolved Oxygen (mg/L)   | 1.97     | 2.03       | 2.04  | 1.94            |           |           |  |
| 12719-MW11R               |          | 12/9/2019  |       |                 |           |           |  |
| Volume (gal)              | Intitial | 2          | 4     | 6/Sample        |           |           |  |
| Time (military)           | 1308     | 1315       | 1321  | 1332            |           |           |  |
| pH (su)                   | 4.63     | 4.64       | 4.65  | 4.60            |           |           |  |
| Spec Conductivity (mS/cm) | 0.073    | 0.067      | 0.064 | 0.068           |           |           |  |
| Water Temperature (°C)    | 18.2     | 18.3       | 18.5  | 18.0            |           |           |  |
| Turbidity (NTU)           | 62.3     | 499        | 495   | 497             |           |           |  |
| Dissolved Oxygen (mg/L)   | 3.52     | 4.07       | 4.17  | 4.08            |           |           |  |
| 12719-MW12                |          | 12/9/2019  |       |                 |           |           |  |
| Volume (gal)              | Intitial | 1.75       | 3.50  | 5.25/Sample     |           |           |  |
| Time (military)           | 1431     | 1440       | 1447  | 1500            |           |           |  |
| pH (su)                   | 4.86     | 4.91       | 4.92  | 4.90            |           |           |  |
| Spec Conductivity (mS/cm) | 0.080    | 0.122      | 0.129 | 0.129           |           |           |  |
| Water Temperature (°C)    | 17.3     | 17.4       | 17.7  | 17.0            |           |           |  |
| Turbidity (NTU)           | 26.6     | 499        | 491   | 494             |           |           |  |
| Dissolved Oxygen (mg/L)   | 5.37     | 5.74       | 5.69  | 5.73            |           |           |  |
| 12719-MW1D                |          | 12/10/2019 |       |                 |           |           |  |
| Volume (gal)              | Intitial | 5          | 10    | 15              | 20        | 25/Sample |  |
| Time (military)           | 1354     | 1357       | 1359  | 1401            | 1403      | 1405      |  |
| pH (su)                   | 6.19     | 5.84       | 5.66  | 5.57            | 5.55      | 5.57      |  |
| Spec Conductivity (mS/cm) | 0.182    | 0.084      | 0.084 | 0.073           | 0.073     | 0.072     |  |
| Water Temperature (°C)    | 18.1     | 18.6       | 18.8  | 18.9            | 18.9      | 19.0      |  |
| Turbidity (NTU)           | 499      | 53.2       | 13.1  | 13.2            | 16.3      | 12.7      |  |
| Dissolved Oxygen (mg/L)   | 5.85     | 5.91       | 5.49  | 5.35            | 5.44      | 4.75      |  |
| 12719-DW2                 |          | 12/10/2019 |       |                 |           |           |  |
| Volume (gal)              | Intitial | 5          | 10    | 15              | 20/Sample |           |  |
| Time (military)           | 1631     | 1634       | 1637  | 1639            | 1642      |           |  |
| pH (su)                   | 4.50     | 4.72       | 4.86  | 4.96            | 4.96      |           |  |
| Spec Conductivity (mS/cm) | 0.124    | 0.082      | 0.075 | 0.074           | 0.074     |           |  |
| Water Temperature (°C)    | 17.0     | 17.7       | 17.8  | 18.0            | 18.0      |           |  |
| Turbidity (NTU)           | 498      | 45.3       | 17.8  | 18.6            | 18.7      |           |  |
| Dissolved Oxygen (mg/L)   | 4.58     | 4.39       | 4.51  | 4.45            | 4.50      |           |  |
| 12719-DW3                 |          | 12/10/2019 |       |                 |           |           |  |
| Volume (gal)              | Intitial | 5          | 5.25  | 5.50/Dry/Sample |           |           |  |
| Time (military)           | 0935     | 0938       | 0944  | 1010            |           |           |  |
| pH (su)                   | 8.53     | 9.23       | 9.07  | 7.78            |           |           |  |
| Spec Conductivity (mS/cm) | 0.372    | 0.393      | 0.409 | 0.372           |           |           |  |
| Water Temperature (°C)    | 16.8     | 17.8       | 18.1  | 17.8            |           |           |  |
| Turbidity (NTU)           | 53.0     | 225        | 499   | 497             |           |           |  |
| Dissolved Oxygen (mg/L)   | 3.10     | 2.87       | 2.44  | 1.44            |           |           |  |

**NOTES/KEY:**

gal = gallons  
 su = standard unit  
 mS/cm = milliSiemens per centimeter  
 NTU = nephelometric turbidity units  
 mg/L = milligrams per liter

### **3. Free Product Measurements**

Free-phase petroleum was measured in RW-1 (0.10 feet) on December 11, 2019. Therefore, monitoring well RW-1 was not sampled.

**F. AFVR INFORMATION**

Not Applicable. No Aggressive Fluid Vapor Recovery (AFVR) Events were performed during this scope of work.

**G. GRANULATED ACTIVATED CARBON INSTALLATION**

Not Applicable. No granulated activated carbon units were installed during this scope of work.



## **H. RESULTS & DISCUSSION**

### **1. Assessment Results**

During this scope of work, TERRY conducted a comprehensive groundwater sampling event between December 9 and December 11, 2019 in accordance with the SCDHEC UST QAPP, Revision 3.1 and the associated site-specific work plan submitted in October 2019.

The groundwater analytical data are summarized in Section I as Table 3, and are included in Appendix B. The analytical data were used to generate contaminant concentration maps for CoC's detected by the laboratory and are provided in Section J as Figures 4A and 4B. Based on the analytical data from the comprehensive sampling event, shallow groundwater contamination is observed onsite in the vicinity of the diesel UST basin (MW-1R, MW-6, RW-1, and RW-2), the gasoline UST basin (MW-3R and RW-3), and down gradient near the dispenser area (MW-5 and MW-16). The plume remains horizontally defined. The plume remains vertically defined in the source area and downgradient to the west-southwest. The sample collected from the surface water location (SW-1) did not show evidence of petroleum contamination.

Due to the rebound of free-phase product, TERRY recommends conducting a 96-hour AFVR Event utilizing the recovery wells.

### **2. Aquifer Evaluation Results**

Not Applicable

### **3. Fate & Transport Results**

Not Applicable

### **4. Tier 1 Risk Evaluation**

Not Applicable

### **5. Tier 2 Risk Evaluation**

Not Applicable

**I. TABLES**

**1. Soil Analytical Data**

Table 1 Soil Analytical Data - Not Applicable

**2. Potentiometric Data**

Table 2 Groundwater Potentiometric Data - Attached

**3. Laboratory Data**

Table 3 Groundwater Laboratory Data - Attached

**4. Aquifer Characteristics**

Table 4 Aquifer Characteristics - Not Applicable

**5. Site Conceptual Model**

Table 5 Site Conceptual Model - Not Applicable

**TABLE 2**  
**GROUNDWATER POTENTIOMETRIC DATA**  
**HOT SPOT # 3005**  
**CHESNEE, SOUTH CAROLINA**  
**SCDHEC UST PERMIT #12719**  
**TERRY PROJECT #2230.8L**

| Well #     | DATE       | TOC Elevation | Screened Interval | Depth to Product** (ft)       | Depth to Water** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |       |
|------------|------------|---------------|-------------------|-------------------------------|-----------------------|------------------------|----------------------------|-------|
| 12719-MW1  | 8/18/2005  | 104.89        | 20'-30'           | --                            | 23.69                 | --                     | 81.20                      |       |
|            | 10/2/2008  |               | 20'-30'           | --                            | 29.77                 | --                     | 75.12                      |       |
|            | 10/31/2011 |               | 20'-30'           | --                            | 29.20                 | --                     | 75.69                      |       |
|            | 12/30/2014 |               | 20'-30'           | 25.87                         | 26.00                 | 0.13                   | 78.89                      |       |
|            | 7/25/2017  |               | 20'-30'           | 26.35                         | 26.46                 | 0.11                   | 78.43                      |       |
|            | 5/30/2018  |               | 20'-30'           | --                            | 26.45                 | --                     | 78.44                      |       |
|            | 5/30/2018  |               | 20'-30'           | Well Abandoned After Sampling |                       |                        |                            |       |
| 12719-MW1R | 5/30/2018  | 889.6         | TD 36'            | --                            | 26.18                 | --                     | 863.42                     |       |
|            | 9/11/2019  |               | TD 36'            | --                            | 22.46                 | --                     | 867.14                     |       |
|            | 12/11/2019 |               | TD 36'            | --                            | 23.94                 | --                     | 865.66                     |       |
| 12719-MW2  | 8/18/2005  | Unknown       | 26'-36'           | --                            | 23.69                 | --                     | --                         |       |
|            | 10/2/2008  |               | 26'-36'           | --                            | 29.61                 | --                     | --                         |       |
|            | 10/31/2011 |               | 26'-36'           | --                            | 29.03                 | --                     | --                         |       |
|            | 12/30/2104 |               | 26'-36'           | --                            | 25.41                 | --                     | --                         |       |
|            | 7/25/2017  |               | 26'-36'           | --                            | 26.16                 | --                     | --                         |       |
|            | 5/30/2018  |               | 26'-36'           | Well Abandoned                |                       |                        |                            |       |
|            | 5/30/2018  |               | 20'-30'           | --                            | 26.16                 | --                     | 863.09                     |       |
| 12719-MW2R | 9/11/2019  | 889.25        | 20'-30'           | --                            | 22.43                 | --                     | 866.82                     |       |
|            | 12/10/2019 |               | 20'-30'           | --                            | 23.87                 | --                     | 865.38                     |       |
|            | 5/30/2018  |               | TD 32'            | --                            | 29.00                 | --                     | --                         |       |
| 12719-MW3  | 5/30/2018  | Unknown       | TD 32'            | Well Abandoned After Sampling |                       |                        |                            |       |
|            | 5/30/2018  |               | TD 32'            | Well Abandoned After Sampling |                       |                        |                            |       |
| 12719-MW3R | 8/18/2005  | 104.92        | 26'-36'           | --                            | 27.15                 | --                     | 77.77                      |       |
|            | 10/2/2008  |               | 26'-36'           | --                            | 32.40                 | --                     | 72.52                      |       |
|            | 10/31/2011 |               | 26'-36'           | --                            | 32.12                 | --                     | 72.80                      |       |
|            | 12/30/2014 |               | 26'-36'           | --                            | 28.56                 | --                     | 76.36                      |       |
|            | 7/25/2017  |               | 26'-36'           | --                            | 29.01                 | --                     | 75.91                      |       |
|            | 5/30/2018  |               | 26'-36'           | --                            | 29.21                 | --                     | 861.04                     |       |
|            | 9/11/2019  | 890.25        | 26'-36'           | --                            | 26.12                 | --                     | 864.13                     |       |
|            | 12/11/2019 |               | 26'-36'           | --                            | 27.44                 | --                     | 862.81                     |       |
|            | 8/18/2005  |               | 111.32            | 36'-46'                       | --                    | 23.25                  | --                         | 88.07 |
| 10/2/2008  | 36'-46'    | --            |                   | 29.57                         | --                    | 81.75                  |                            |       |
| 10/31/2011 | 36'-46'    | Not sampled   |                   |                               |                       |                        |                            |       |
| 12/30/2014 | 36'-46'    | --            |                   | 23.95                         | --                    | 87.37                  |                            |       |
| 7/25/2017  | 36'-46'    | --            |                   | 25.78                         | --                    | 85.54                  |                            |       |
| 5/30/2018  | 36'-46'    | --            |                   | 25.45                         | --                    | 870.82                 |                            |       |
| 9/10/2019  | 896.27     | 36'-46'       |                   | --                            | 21.46                 | --                     | 874.81                     |       |
| 12/10/2019 |            | 36'-46'       |                   | --                            | 22.83                 | --                     | 873.44                     |       |
| 12719-MW4  | 8/18/2005  | 103.57        | 22'-32'           | --                            | 29.03                 | --                     | 74.54                      |       |
|            | 10/2/2008  |               | 22'-32'           | --                            | 31.94                 | --                     | 71.63                      |       |
|            | 10/31/2011 |               | 22'-32'           | --                            | 31.80                 | --                     | 71.77                      |       |
|            | 12/30/2014 |               | 22'-32'           | --                            | 30.02                 | --                     | 73.55                      |       |
|            | 7/25/2017  |               | 22'-32'           | --                            | 30.51                 | --                     | 73.06                      |       |
|            | 5/30/2018  |               | 22'-32'           | --                            | 28.20                 | --                     | 860.77                     |       |
|            | 9/10/2019  | 888.97        | 22'-32'           | --                            | 27.70                 | --                     | 861.27                     |       |
|            | 12/11/2019 |               | 22'-32'           | --                            | 28.96                 | --                     | 860.01                     |       |
|            | 8/18/2005  |               | 104.14            | 26'-36'                       | --                    | 24.22                  | --                         | 79.92 |
| 10/2/2008  | 26'-36'    | --            |                   | 29.89                         | --                    | 74.25                  |                            |       |
| 10/31/2011 | 26'-36'    | --            |                   | 30.57                         | --                    | 73.57                  |                            |       |
| 12/30/2014 | 26'-36'    | --            |                   | 25.92                         | --                    | 78.22                  |                            |       |
| 7/25/2017  | 26'-36'    | --            |                   | 26.40                         | --                    | 77.74                  |                            |       |
| 5/30/2018  | 26'-36'    | --            |                   | 26.50                         | --                    | 862.64                 |                            |       |
| 9/10/2019  | 889.14     | 26'-36'       |                   | --                            | 22.83                 | --                     | 866.31                     |       |
| 12/11/2019 |            | 26'-36'       |                   | --                            | 24.13                 | --                     | 865.01                     |       |

**TABLE 2**  
**GROUNDWATER POTENTIOMETRIC DATA**  
**HOT SPOT # 3005**  
**CHESNEE, SOUTH CAROLINA**  
**SCDHEC UST PERMIT #12719**  
**TERRY PROJECT #2230.8L**

| Well #      | DATE       | TOC Elevation | Screened Interval | Depth to Product** (ft)            | Depth to Water** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |
|-------------|------------|---------------|-------------------|------------------------------------|-----------------------|------------------------|----------------------------|
| 12719-MW7   | 8/18/2005  | 104.52        | 26'-36'           | --                                 | 22.74                 | --                     | 81.78                      |
|             | 10/2/2008  |               | 26'-36'           | --                                 | 28.90                 | --                     | 75.62                      |
|             | 10/31/2011 |               | 26'-36'           | Not sampled                        |                       |                        |                            |
|             | 12/30/2014 |               | 26'-36'           | --                                 | 23.89                 | --                     | 80.63                      |
|             | 7/25/2017  | 889.52        | 26'-36'           | --                                 | 25.31                 | --                     | 79.21                      |
|             | 5/29/2018  |               | 26'-36'           | --                                 | 25.32                 | --                     | 864.20                     |
|             | 9/10/2019  |               | 26'-36'           | --                                 | 21.29                 | --                     | 868.23                     |
|             | 12/9/2019  |               | 26'-36'           | --                                 | 22.24                 | --                     | 867.28                     |
| 12719-MW8   | 8/18/2005  | 101.79        | Unknown           | --                                 | 18.05                 | --                     | 83.74                      |
|             | 10/2/2008  |               | Unknown           | Well could not be located          |                       |                        |                            |
|             | 10/31/2011 |               | Unknown           | Not sampled                        |                       |                        |                            |
|             | 12/30/2014 |               | Unknown           | --                                 | 21.53                 | --                     | 80.26                      |
|             | 7/25/2017  |               | Unknown           | Could Not Find - Assumed Destroyed |                       |                        |                            |
|             | 5/30/2018  |               | Unknown           | Could Not Find - Assumed Destroyed |                       |                        |                            |
| 12719-MW8R  | 5/29/2018  | 888.01        | 20'-30'           | --                                 | 21.10                 | --                     | 866.91                     |
|             | 9/10/2019  |               | 20'-30'           | --                                 | 17.40                 | --                     | 870.61                     |
|             | 12/9/2019  |               | 20'-30'           | --                                 | 18.76                 | --                     | 869.25                     |
| 12719-MW9   | 8/18/2005  | 105.43        | Unknown           | --                                 | 22.95                 | --                     | 82.48                      |
|             | 10/2/2008  |               | Unknown           | --                                 | 29.38                 | --                     | 76.05                      |
|             | 10/31/2011 |               | Unknown           | Not sampled                        |                       |                        |                            |
|             | 12/30/2014 |               | Unknown           | --                                 | 24.02                 | --                     | 81.41                      |
|             | 7/25/2017  | 890.41        | Unknown           | --                                 | 25.22                 | --                     | 80.21                      |
|             | 5/29/2018  |               | Unknown           | --                                 | 25.26                 | --                     | 865.15                     |
|             | 9/10/2019  |               | Unknown           | --                                 | 21.13                 | --                     | 869.28                     |
|             | 12/10/2019 |               | Unknown           | --                                 | 22.94                 | --                     | 867.47                     |
| 12719-MW10  | 8/18/2005  | 96.57         | 17'-27'           | --                                 | --                    | --                     | --                         |
|             | 10/31/2011 |               | 17'-27'           | Not sampled                        |                       |                        |                            |
|             | 12/30/2014 |               | 17'-27'           | Not sampled                        |                       |                        |                            |
|             | 5/29/2018  | 881.6         | 17'-27'           | --                                 | 21.24                 | --                     | 860.36                     |
|             | 9/10/2019  |               | 17'-27'           | --                                 | 18.49                 | --                     | 863.11                     |
| 12/9/2019   | 17'-27'    | --            | 19.68             | --                                 | 861.92                |                        |                            |
| 12719-MW10R | 8/18/2005  | Unknown       | 22'-32'           | --                                 | 19.67                 | --                     | --                         |
|             | 10/2/2008  |               | 22'-32'           | --                                 | 24.50                 | --                     | --                         |
|             | 10/31/2011 |               | 22'-32'           | --                                 | 24.39                 | --                     | --                         |
|             | 12/30/2014 |               | 22'-32'           | --                                 | 21.13                 | --                     | --                         |
|             | 7/24/2017  |               | 22'-32'           | --                                 | 21.35                 | --                     | --                         |
|             | 5/29/2018  | 881.77        | 22'-32'           | --                                 | 21.42                 | --                     | 860.35                     |
|             | 9/10/2019  |               | 22'-32'           | --                                 | 18.70                 | --                     | 863.07                     |
|             | 12/9/2019  |               | 22'-32'           | --                                 | 19.83                 | --                     | 861.94                     |
| 12719-MW11  | 8/18/2005  | 95.15         | 18'-28'           | --                                 | --                    | --                     | --                         |
|             | 10/2/2008  |               | 18'-28'           | --                                 | 24.85                 | --                     | 70.30                      |
|             | 10/31/2011 |               | 18'-28'           | Not sampled                        |                       |                        |                            |
|             | 12/30/2014 |               | 18'-28'           | Not sampled                        |                       |                        |                            |
|             | 5/29/2018  | 880.2         | 18'-28'           | --                                 | 21.90                 | --                     | 858.3                      |
|             | 9/10/2019  |               | 18'-28'           | --                                 | 20.06                 | --                     | 860.14                     |
|             | 12/9/2019  |               | 18'-28'           | --                                 | 20.89                 | --                     | 859.31                     |
| 12719-MW11R | 8/18/2005  | Unknown       | 22'-32'           | --                                 | 20.68                 | --                     | --                         |
|             | 10/2/2008  |               | 22'-32'           | Well could not be located          |                       |                        |                            |
|             | 10/31/2011 |               | 22'-32'           | Not sampled                        |                       |                        |                            |
|             | 12/30/2014 |               | 22'-32'           | --                                 | 21.91                 | --                     | --                         |
|             | 7/24/2017  | 880.33        | 22'-32'           | --                                 | 22.50                 | --                     | --                         |
|             | 5/29/2018  |               | 22'-32'           | Obstructed                         |                       |                        |                            |
|             | 9/10/2019  |               | 22'-32'           | --                                 | 20.25                 | --                     | 860.08                     |
|             | 12/9/2019  |               | 22'-32'           | --                                 | 20.80                 | --                     | 859.53                     |

**TABLE 2**  
**GROUNDWATER POTENTIOMETRIC DATA**  
**HOT SPOT # 3005**  
**CHESNEE, SOUTH CAROLINA**  
**SCDHEC UST PERMIT #12719**  
**TERRY PROJECT #2230.8L**

| Well #     | DATE       | TOC Elevation | Screened Interval | Depth to Product** (ft) | Depth to Water** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |
|------------|------------|---------------|-------------------|-------------------------|-----------------------|------------------------|----------------------------|
| 12719-MW12 | 8/18/2005  | 97.03         | 20'-30'           | --                      | 19.57                 | --                     | 77.46                      |
|            | 10/2/2008  |               | 20'-30'           | --                      | 25.35                 | --                     | 71.68                      |
|            | 10/31/2011 |               | 20'-30'           | Not sampled             |                       |                        |                            |
|            | 12/30/2014 |               | 20'-30'           | --                      | 21.37                 | --                     | 75.66                      |
|            | 7/24/2017  | 882.13        | 20'-30'           | --                      | 21.10                 | --                     | 75.93                      |
|            | 5/29/2018  |               | 20'-30'           | --                      | 20.91                 | --                     | 861.22                     |
|            | 9/10/2019  |               | 20'-30'           | --                      | 17.89                 | --                     | 864.24                     |
|            | 12/9/2019  |               | 20'-30'           | --                      | 19.37                 | --                     | 862.76                     |
| 12719-MW13 | 8/18/2005  | 95.89         | 17'-27'           | --                      | 20.62                 | --                     | 75.27                      |
|            | 10/2/2008  |               | 17'-27'           | --                      | 25.27                 | --                     | 70.62                      |
|            | 10/31/2011 |               | 17'-27'           | Not sampled             |                       |                        |                            |
|            | 12/30/2014 |               | 17'-27'           | --                      | 22.08                 | --                     | 73.81                      |
|            | 7/24/2017  | 880.92        | 17'-27'           | --                      | 21.91                 | --                     | 73.98                      |
|            | 5/29/2018  |               | 17'-27'           | --                      | 21.63                 | --                     | 859.29                     |
|            | 9/10/2019  |               | 17'-27'           | --                      | 19.65                 | --                     | 861.27                     |
|            | 12/9/2019  |               | 17'-27'           | --                      | 20.52                 | --                     | 860.40                     |
| 12719-MW14 | 8/18/2005  | Unknown       | 21'-31'           | --                      | 24.84                 | --                     | --                         |
|            | 10/2/2008  |               | 21'-31'           | --                      | 28.46                 | --                     | --                         |
|            | 10/31/2011 |               | 21'-31'           | Not sampled             |                       |                        |                            |
|            | 12/30/2014 |               | 21'-31'           | --                      | 30.60                 | --                     | --                         |
|            | 7/25/2017  | 882.98        | 21'-31'           | --                      | 26.03                 | --                     | --                         |
|            | 5/29/2018  |               | 21'-31'           | --                      | 25.78                 | --                     | 857.2                      |
|            | 9/11/2019  |               | 21'-31'           | --                      | 24.12                 | --                     | 858.86                     |
|            | 12/10/2019 |               | 21'-31'           | --                      | 24.92                 | --                     | 858.06                     |
| 12719-MW15 | 7/25/2017  | 99.70         | 25'-35'           | --                      | 28.60                 | --                     | 71.10                      |
|            | 5/29/2018  | 885.13        | 25'-35'           | --                      | 28.20                 | --                     | 856.93                     |
|            | 9/10/2019  |               | 25'-35'           | --                      | 26.42                 | --                     | 858.71                     |
|            | 12/10/2019 |               | 25'-35'           | --                      | 27.29                 | --                     | 857.84                     |
| 12719-MW16 | 7/25/2017  | 101.75        | 28'-38'           | --                      | 30.43                 | --                     | 71.32                      |
|            | 5/29/2018  | 887.14        | 28'-38'           | --                      | 30.09                 | --                     | 857.05                     |
|            | 9/11/2019  |               | 28'-38'           | --                      | 28.34                 | --                     | 858.80                     |
|            | 12/11/2019 |               | 28'-38'           | --                      | 29.25                 | --                     | 857.89                     |
| 12719-MW17 | 5/30/2018  | 881.76        | 20'-30'           | --                      | 25.63                 | --                     | 856.13                     |
|            | 9/10/2019  |               | 20'-30'           | --                      | 24.55                 | --                     | 857.21                     |
|            | 12/9/2019  |               | 20'-30'           | --                      | 25.13                 | --                     | 856.63                     |
| 12719-MW18 | 5/30/2018  | 879.53        | 20'-30'           | --                      | 23.86                 | --                     | 855.67                     |
|            | 9/10/2019  |               | 20'-30'           | --                      | 22.96                 | --                     | 856.57                     |
|            | 12/9/2019  |               | 20'-30'           | --                      | 23.44                 | --                     | 856.09                     |
| 12719-MW19 | 5/29/2018  | 880.71        | 20'-30'           | --                      | 25.43                 | --                     | 855.28                     |
|            | 9/11/2019  |               | 20'-30'           | --                      | 25.54                 | --                     | 855.17                     |
|            | 12/10/2019 |               | 20'-30'           | --                      | 25.02                 | --                     | 855.69                     |
| 12719-MW20 | 5/29/2018  | 880.36        | 20'-30'           | --                      | 25.80                 | --                     | 854.56                     |
|            | 9/11/2019  |               | 20'-30'           | --                      | 25.09                 | --                     | 855.27                     |
|            | 12/10/2019 |               | 20'-30'           | --                      | 25.49                 | --                     | 854.87                     |
| 12719-MW21 | 5/29/2018  | 879.02        | 20'-30'           | --                      | 24.98                 | --                     | 854.04                     |
|            | 9/11/2019  |               | 20'-30'           | --                      | 24.57                 | --                     | 854.45                     |
|            | 12/10/2019 |               | 20'-30'           | --                      | 24.81                 | --                     | 854.21                     |
| 12719-MW22 | 5/30/2018  | 892.06        | 25'-35'           | --                      | 30.34                 | --                     | 861.72                     |
|            | 9/11/2019  |               | 25'-35'           | --                      | 25.85                 | --                     | 866.21                     |
|            | 12/10/2019 |               | 25'-35'           | --                      | 27.68                 | --                     | 864.38                     |
| 12719-MW23 | 5/30/2018  | 890.38        | 25'-35'           | --                      | 29.34                 | --                     | 861.04                     |
|            | 9/11/2019  |               | 25'-35'           | --                      | 25.43                 | --                     | 864.95                     |
|            | 12/10/2019 |               | 25'-35'           | --                      | 27.00                 | --                     | 863.38                     |
| 12719-MW24 | 5/30/2018  | 883.91        | 24'-34'           | --                      | 27.37                 | --                     | 856.54                     |
|            | 9/10/2019  |               | 24'-34'           | --                      | 26.75                 | --                     | 857.16                     |
|            | 12/10/2019 |               | 24'-34'           | --                      | 27.41                 | --                     | 856.50                     |

**TABLE 2**  
**GROUNDWATER POTENTIOMETRIC DATA**  
**HOT SPOT # 3005**  
**CHESNEE, SOUTH CAROLINA**  
**SCDHEC UST PERMIT #12719**  
**TERRY PROJECT #2230.8L**

| Well #     | DATE       | TOC Elevation | Screened Interval | Depth to Product** (ft) | Depth to Water** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |
|------------|------------|---------------|-------------------|-------------------------|-----------------------|------------------------|----------------------------|
| 12719-MW25 | 5/30/2018  | 881.63        | 20'-30'           | --                      | 25.06                 | --                     | 856.57                     |
|            | 9/11/2019  |               | 20'-30'           | --                      | 23.60                 | --                     | 858.03                     |
|            | 12/10/2019 |               | 20'-30'           | --                      | 24.32                 | --                     | 857.31                     |
| 12719-RW1  | 5/30/2018  | 889.73        | 20'-30'           | --                      | 26.39                 | --                     | 863.34                     |
|            | 9/11/2019  |               | 20'-30'           | 22.26                   | 0.20                  | 867.27                 |                            |
|            | 12/11/2019 |               | 20'-30'           | 23.93                   | 0.10                  | 865.70                 |                            |
| 12719-RW2  | 5/30/2018  | 889.52        | 20'-30'           | --                      | 26.29                 | --                     | 863.23                     |
|            | 9/11/2019  |               | 20'-30'           | --                      | 22.32                 | --                     | 867.20                     |
|            | 12/11/2019 |               | 20'-30'           | --                      | 24.22                 | --                     | 865.30                     |
| 12719-RW3  | 5/30/2018  | 890.37        | 25'-35'           | --                      | 29.35                 | --                     | 861.02                     |
|            | 9/11/2019  |               | 25'-35'           | --                      | 26.14                 | --                     | 864.23                     |
|            | 12/11/2019 |               | 25'-35'           | --                      | 27.64                 | --                     | 862.73                     |
| 12719-MW1D | 8/18/2005  | 104.61        | 55'-60'           | --                      | 24.60                 | --                     | 80.01                      |
|            | 10/2/2008  |               | 55'-60'           | --                      | 30.46                 | --                     | 74.15                      |
|            | 10/31/2011 |               | 55'-60'           | --                      | 30.03                 | --                     | 74.58                      |
|            | 12/30/2014 |               | 55'-60'           | --                      | 26.82                 | --                     | 77.79                      |
|            | 7/25/2017  |               | 55'-60'           | --                      | 27.05                 | --                     | 77.56                      |
|            | 5/30/2018  | 889.64        | 55'-60'           | --                      | 27.07                 | --                     | 862.57                     |
|            | 9/11/2019  |               | 55'-60'           | --                      | 23.18                 | --                     | 866.46                     |
|            | 12/10/2019 |               | 55'-60'           | --                      | 24.68                 | --                     | 864.96                     |
| 12719-DW2  | 5/30/2018  | 887.23        | 55'-60'           | --                      | 30.44                 | --                     | 856.79                     |
|            | 9/11/2019  |               | 55'-60'           | --                      | 28.91                 | --                     | 858.32                     |
|            | 12/10/2019 |               | 55'-60'           | --                      | 29.67                 | --                     | 857.56                     |
| 12719-DW3  | 5/30/2018  | 883.42        | 60'-65'           | --                      | 61.60                 | --                     | 821.82                     |
|            | 9/10/2019  |               | 60'-65'           | --                      | 25.10                 | --                     | 858.32                     |
|            | 12/10/2019 |               | 60'-65'           | --                      | 35.04                 | --                     | 848.38                     |

\*\* = Relative to top of casing

-- = Not applicable

TD = Total depth

**TABLE 3  
GROUNDWATER LABORATORY DATA  
HOT SPOT #3005  
CHESNEE, SC  
SCDHEC UST PERMIT #12719  
TERRY PROJECT #2230.8L**

| Well       | Date       | Benzene                          | Toluene | Ethylbenzene | Xylenes | Naphthalene | MTBE  | 1,2 DCA | EDB    | TAME   | TBA    | DIPE  | ETBE  | ETBA   | Ethanol | TAA    | TBF   |  |
|------------|------------|----------------------------------|---------|--------------|---------|-------------|-------|---------|--------|--------|--------|-------|-------|--------|---------|--------|-------|--|
|            | Units      | ug/L                             | ug/L    | ug/L         | ug/L    | ug/L        | ug/L  | ug/L    | ug/L   | ug/L   | ug/L   | ug/L  | ug/L  | ug/L   | ug/L    | ug/L   | ug/L  |  |
| 12719-MW1  | 8/18/2005  | 85                               | 110     | 42           | 170     | 41          | <5.0  | NT      | NT     | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
|            | 10/2/2008  | Dry - Not enough water to sample |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |  |
|            | 10/31/2011 | 57.6                             | 1.93    | 36.8         | 176     | 91.4        | 8.03  | <1.0    | NT     | <5.00  | <10.0  | <5.00 | <5.00 | <100   | <1,000  | 7.42J  | <5.00 |  |
|            | 12/30/2014 | Free Product (0.13R)             |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |  |
|            | 7/25/2017  | Free Product (0.11B)             |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |  |
|            | 5/30/2018  | 85                               | 4.4     | 81           | 240     | 100         | <1.0  | <1.0    | NT     | <10    | <20    | <1.0  | <1.0  | <20    | <100    | 19J    | <5.0  |  |
| 12719-MW1R | 5/30/2018  | Well Abandoned                   |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |  |
|            | 9/11/2019  | 93                               | 9.3     | 89           | 420     | 79          | <5.0  | <5.0    | NT     | <50    | <100   | <5.0  | <5.0  | <100   | <500    | <100   | <25   |  |
|            | 12/11/2019 | 37                               | 2.0     | 64           | 220     | 99          | <1.0  | <1.0    | <0.019 | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |  |
|            | 12/11/2019 | 46                               | 3.3     | 74           | 240     | 110         | <1.0  | <1.0    | NT     | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |  |
| 12719-MW2  | 8/18/2005  | 90                               | 100     | 78           | 350     | 94          | 8.9   | NT      | NT     | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
|            | 10/2/2008  | <1.00                            | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
|            | 10/31/2011 | <1.00                            | <1.00   | <1.00        | <3.00   | 2.23J       | 11.1  | <1.00   | NT     | <5.00  | <10.0  | <5.00 | <5.00 | <100   | <1,000  | 46.3   | <5.00 |  |
|            | 12/30/2014 | 100                              | 4.6     | 98           | 380     | 120         | <1.0  | <1.0    | NT     | 0.25J  | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |  |
|            | 7/25/2017  | 64                               | 6.7     | 55           | 280     | 68          | <5.0  | <5.0    | <0.020 | <50    | <100   | <5.0  | <5.0  | <100   | <500    | <100   | <25   |  |
|            | 5/30/2018  | Well Abandoned                   |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |  |
| 12719-MW2R | 5/30/2018  | 5.4                              | <1.0    | 12           | 73      | 26          | <1.0  | <1.0    | NT     | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |  |
|            | 9/11/2019  | 4.9                              | <1.0    | 0.58J        | 3.1     | <1.0        | 1.9   | <1.0    | <0.019 | <10    | 26     | 0.56J | <1.0  | <20    | <100    | 9.3J   | <5.0  |  |
|            | 12/10/2019 | 4.2                              | <1.0    | 1.9          | 7.6     | 1.8         | 0.73J | <1.0    | NT     | <10    | 9.3J   | <1.0  | <1.0  | <20    | <100    | 10J    | <5.0  |  |
| 12719-MW3  | 5/30/2018  | 3,700                            | <100    | 210          | 1,500   | 96J         | 130   | <100    | NT     | <1000  | <2,000 | 130   | <100  | <2,000 | <10,000 | 2,600  | <500  |  |
|            | 5/30/2018  | Well Abandoned                   |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |  |
| 12719-MW3R | 8/18/2005  | 270                              | 41      | 170          | 880     | 430         | 330   | NT      | NT     | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
|            | 10/2/2008  | 562                              | <25.0   | 272          | 261     | 96.5J       | 4,160 | <25.0   | <0.010 | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
|            | 10/31/2011 | 196                              | <20.0   | 39.1         | 31.3J   | 143         | 2,060 | <20.0   | NT     | 163    | 255    | 53.3J | <100  | <2,000 | <20,000 | 282J   | <100  |  |
|            | 12/30/2014 | 1,300                            | 38      | 77           | 530     | 14J         | 85    | <20     | NT     | 5.3J   | 250J   | 30    | <20   | <400   | <2,000  | 2,500  | <100  |  |
|            | 7/25/2017  | 3,800                            | 140     | 270          | 1,500   | 43J         | <100  | <100    | <0.020 | <1,000 | <2,000 | 100   | <100  | <2,000 | <10,000 | 2,700  | <500  |  |
|            | 5/30/2018  | 160                              | <5.0    | <5.0         | 30      | 2.0J        | <5.0  | <5.0    | NT     | <50    | <100   | 4.1J  | <5.0  | <100   | <500    | 68J    | <25   |  |
|            | 9/11/2019  | 860                              | <10     | 17           | 73      | 28          | 41    | <10     | <0.019 | 12J    | 170J   | 130   | <10   | <200   | 1,300   | 730    | <50   |  |
|            | 12/11/2019 | 1,100                            | <10     | 47           | 12      | 95          | 83    | <10     | NT     | 31J    | 270    | 330   | <10   | <200   | <1,000  | 1,000  | <50   |  |
| 12719-MW4  | 8/18/2005  | <1.0                             | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
|            | 10/2/2008  | <1.00                            | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
|            | 10/31/2011 | Not sampled                      |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |  |
|            | 12/30/2014 | <1.0                             | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |  |
|            | 7/25/2017  | <1.0                             | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |  |
|            | 5/30/2018  | <1.0                             | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |  |
| 12719-MW5  | 8/18/2005  | <1.0                             | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |  |
|            | 10/2/2008  | Dry - Not enough water to sample |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |  |
|            | 10/31/2011 | 110                              | 11.5    | <1.00        | 9.27    | <5.00       | 4.31  | <1.00   | NT     | <5.00  | 7.11J  | <5.00 | <5.00 | <100   | <1,000  | 32.0   | <5.00 |  |
|            | 12/30/2014 | 680                              | 910     | 72           | 360     | <20         | <20   | <20     | NT     | <200   | <400   | <20   | <20   | <400   | <2,000  | 130J   | <100  |  |
|            | 7/25/2017  | 1,500                            | 1,500   | 73           | 1,300   | <50         | <50   | <50     | <0.020 | <500   | <1,000 | <50   | <50   | <1,000 | <5,000  | <1,000 | <250  |  |
|            | 5/30/2018  | <1.0                             | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |  |
| 9/10/2019  | 1,300      | 910                              | 120     | 1,500        | 8.8J    | 24          | <20   | <0.019  | <200   | <400   | <20    | <20   | <400  | <2,000 | 320J    | <100   |       |  |
| 12/11/2019 | 1,300      | 810                              | 89      | 1,500        | <10     | 20          | <10   | NT      | <100   | <200   | <10    | <10   | <200  | <1,000 | 260     | <50    |       |  |

**TABLE 3  
GROUNDWATER LABORATORY DATA  
HOT SPOT #3005  
CHESNEE, SC  
SCDHEC UST PERMIT #12719  
TERRY PROJECT #2230.8L**

| Well        | Date       | Benzene                   | Toluene | Ethylbenzene | Xylenes | Naphthalene | MTBE  | 1,2 DCA | EDB    | TAME  | TBA   | DIPE  | ETBE  | ETBA | Ethanol | TAA   | TBF   |    |
|-------------|------------|---------------------------|---------|--------------|---------|-------------|-------|---------|--------|-------|-------|-------|-------|------|---------|-------|-------|----|
|             | Units      | ug/L                      | ug/L    | ug/L         | ug/L    | ug/L        | ug/L  | ug/L    | ug/L   | ug/L  | ug/L  | ug/L  | ug/L  | ug/L | ug/L    | ug/L  | ug/L  |    |
| 12719-MW6   | 8/18/2005  | 7.8                       | 6.3     | 5.5          | 52      | 22          | 6.8   | NT      | NT     | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |    |
|             | 10/2/2008  | 9.16                      | 1.15    | 16.9         | 133     | 43.8        | <1.00 | <1.00   | <0.010 | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |    |
|             | 10/31/2011 | 10.4                      | <1.00   | <1.0         | 91.5    | 65.4        | <1.00 | <1.00   | NT     | <5.00 | <10.0 | <5.00 | <5.00 | <100 | <1,000  | 8.52J | <5.00 |    |
|             | 12/30/2014 | 2.2                       | <1.0    | <1.0         | 13      | 9.2         | <1.0  | <1.0    | NT     | 0.34J | 12J   | 1.1   | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 7/25/2017  | 1.7                       | <1.0    | 0.45J        | 2.8     | <1.0        | 2.1   | <1.0    | <0.020 | <10   | 11J   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 5/29/2018  | 2.2                       | <1.0    | 0.61J        | 3.5     | 0.54J       | 1.6   | <1.0    | NT     | <10   | 18J   | 0.42J | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 9/10/2019  | 24                        | <1.0    | 0.54J        | 29      | 16          | 4.3   | <1.0    | <0.019 | <10   | 18J   | 0.74J | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 12/11/2019 | 26                        | <1.0    | 0.82J        | 39      | 18          | 3.3   | <1.0    | NT     | <10   | 22    | 0.78J | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 8/18/2005  | <1.0                      | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    | NT |
|             | 10/2/2008  | <1.00                     | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    | NT |
| 12719-MW7   | 10/31/2011 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |    |
|             | 12/30/2014 | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 7/25/2017  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 5/29/2018  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 9/10/2019  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 12/9/2019  | <1.0                      | <1.0    | 2.0          | 12      | 1.8         | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 8/18/2005  | <1.0                      | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |    |
| 12719-MW8   | 10/2/2008  | Well could not be located |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |    |
|             | 10/31/2011 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |    |
|             | 12/30/2014 | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 7/25/2017  | Could Not Find            |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |    |
|             | 5/30/2018  | Could Not Find            |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |    |
| 12719-MW8R  | 5/29/2018  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 9/10/2019  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 12/9/2019  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 8/18/2005  | <1.0                      | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |    |
| 12719-MW9   | 10/2/2008  | <1.00                     | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |    |
|             | 10/31/2011 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |    |
|             | 12/30/2014 | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 7/25/2017  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 5/29/2018  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 9/10/2019  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 12/10/2019 | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
| 12719-MW10  | 8/18/2005  | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |    |
|             | 10/2/2008  | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |    |
|             | 10/31/2011 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |    |
|             | 12/30/2014 | Not sampled               |         |              |         |             |       |         |        |       |       |       |       |      |         |       |       |    |
|             | 5/29/2018  | <1.0                      | <1.0    | <1.0         | <1.0    | 2.0         | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 9/10/2019  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
| 12719-MW10R | 12/9/2019  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 8/18/2005  | <1.0                      | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |    |
|             | 10/2/2008  | <1.00                     | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT    | NT    | NT    | NT    | NT   | NT      | NT    | NT    |    |
|             | 10/31/2011 | <1.00                     | <1.00   | <1.00        | <3.00   | 1.88J       | <1.00 | <1.00   | NT     | <5.00 | <10.0 | <5.00 | <5.00 | <100 | <1,000  | <20.0 | <5.00 |    |
|             | 12/30/2014 | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 7/24/2017  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 5/29/2018  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
|             | 9/10/2019  | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20   | <1.0  | <1.0  | <20  | <100    | <20   | <5.0  |    |
| 12/9/2019   | <1.0       | <1.0                      | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | NT      | <10    | <20   | <1.0  | <1.0  | <20   | <100 | <20     | <5.0  |       |    |



**TABLE 3  
GROUNDWATER LABORATORY DATA  
HOT SPOT #3005  
CHESNEE, SC  
SCDHEC UST PERMIT #12719  
TERRY PROJECT #2230.8L**

| Well             | Date       | Benzene | Toluene | Ethylbenzene | Xylenes | Naphthalene | MTBE  | 1,2 DCA | EDB    | TAME | TBA    | DIPE | ETBE | ETBA   | Ethanol | TAA   | TBF  |
|------------------|------------|---------|---------|--------------|---------|-------------|-------|---------|--------|------|--------|------|------|--------|---------|-------|------|
|                  | Units      | ug/L    | ug/L    | ug/L         | ug/L    | ug/L        | ug/L  | ug/L    | ug/L   | ug/L | ug/L   | ug/L | ug/L | ug/L   | ug/L    | ug/L  | ug/L |
| 12719-MW11       | 8/18/2005  |         |         |              |         |             |       |         |        |      |        |      |      |        |         |       |      |
|                  | 10/2/2008  | <1.00   | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT   | NT     | NT   | NT   | NT     | NT      | NT    | NT   |
|                  | 10/31/2011 |         |         |              |         |             |       |         |        |      |        |      |      |        |         |       |      |
|                  | 12/30/2014 |         |         |              |         |             |       |         |        |      |        |      |      |        |         |       |      |
|                  | 5/29/2018  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 9/10/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
| 12719-MW11R      | 12/9/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 8/18/2005  | <1.0    | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT   | NT     | NT   | NT   | NT     | NT      | NT    | NT   |
|                  | 10/2/2008  |         |         |              |         |             |       |         |        |      |        |      |      |        |         |       |      |
|                  | 10/31/2011 |         |         |              |         |             |       |         |        |      |        |      |      |        |         |       |      |
|                  | 12/30/2014 | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 7/24/2017  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
| 12719-MW12       | 5/29/2018  |         |         |              |         |             |       |         |        |      |        |      |      |        |         |       |      |
|                  | 9/10/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 12/9/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 8/18/2005  | <1.0    | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT   | NT     | NT   | NT   | NT     | NT      | NT    | NT   |
|                  | 10/2/2008  | <1.00   | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT   | NT     | NT   | NT   | NT     | NT      | NT    | NT   |
|                  | 10/31/2011 |         |         |              |         |             |       |         |        |      |        |      |      |        |         |       |      |
| 12719-MW13       | 12/30/2014 | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 7/24/2017  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 5/29/2018  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 9/10/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 12/9/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 8/18/2005  | <1.0    | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT   | NT     | NT   | NT   | NT     | NT      | NT    | NT   |
| 12719-MW14       | 10/2/2008  | <1.00   | <1.00   |              | <3.00   | <5.00       | 1.12  | <1.00   | <0.010 | NT   | NT     | NT   | NT   | NT     | NT      | NT    | NT   |
|                  | 10/31/2011 |         |         |              |         |             |       |         |        |      |        |      |      |        |         |       |      |
|                  | 12/30/2014 | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 7/25/2017  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 5/29/2018  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 9/11/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
| 12719-MW15       | 12/10/2019 | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 7/25/2017  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 5/29/2018  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 9/10/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 12/10/2019 | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20    | <1.0 | <1.0 | <20    | <100    | <20   | <5.0 |
|                  | 7/25/2017  | 1,000   | 120     | 25           | 580     | 171         | 150   | <20     | <0.020 | 121  | <400   | <20  | <20  | <400   | <2,000  | 1,000 | <100 |
| 12719-MW16       | 5/29/2018  | 1,700   | 300     | 67           | 930     | 45          | 250   | <20     | NT     | 151  | 1601   | 22   | <20  | <400   | <2,000  | 1,500 | <100 |
|                  | 9/11/2019  | 2,500   | 311     | <50          | 1,100   | 61          | 260   | <50     | <0.019 | <500 | <1,000 | <50  | <50  | <1,000 | <5,000  | 2,200 | <250 |
|                  | 12/11/2019 | 1,900   | 151     | <20          | 750     | 61          | 98    | <20     | NT     | <200 | <400   | 151  | <20  | <400   | <2,000  | 1,700 | <100 |
| 12719-MW16 (DUP) | 12/11/2019 | 1,700   | 121     | <20          | 650     | 58          | 100   | <20     | NT     | <200 | <400   | <20  | <20  | <400   | <2,000  | 1,700 | <100 |

**TABLE 3  
GROUNDWATER LABORATORY DATA  
HOT SPOT #3005  
CHESNEE, SC  
SCDHEC UST PERMIT #12719  
TERRY PROJECT #2230.8L**

| Well            | Date                   | Benzene                | Toluene | Ethylbenzene | Xylenes | Naphthalene | MTBE  | 1,2 DCA | EDB    | TAME  | TBA    | DIPE  | ETBE  | ETBA   | Ethanol | TAA   | TBF   |
|-----------------|------------------------|------------------------|---------|--------------|---------|-------------|-------|---------|--------|-------|--------|-------|-------|--------|---------|-------|-------|
|                 | Units                  | ug/L                   | ug/L    | ug/L         | ug/L    | ug/L        | ug/L  | ug/L    | ug/L   | ug/L  | ug/L   | ug/L  | ug/L  | ug/L   | ug/L    | ug/L  | ug/L  |
|                 | RBSL                   | 5                      | 1,000   | 700          | 10,000  | 25          | 40    | 5       | 0.05   | 128   | 1,400  | 150   | 47    | n/a    | 10,000  | 240   | n/a   |
| 12719-MW17      | 7/25/2017              | 1,000                  | 120     | 25           | 580     | 173         | 150   | <20     | <0.020 | 127   | <400   | <20   | <20   | <400   | <2,000  | 1,000 | <100  |
|                 | 5/30/2018              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 9/10/2019              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-MW18      | 12/9/2019              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 5/30/2018              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 9/10/2019              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-MW19      | 12/9/2019              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 5/29/2018              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 9/11/2019              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | 60      | <20   | <5.0  |
| 12719-MW20      | 12/10/2019             | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 5/29/2018              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | 1.2   | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 9/11/2019              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | 1.0   | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-MW21      | 12/10/2019             | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | 0.973 | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 5/29/2018              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | 4.3   | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 9/11/2019              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | 3.4   | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | 74J     | <20   | <5.0  |
| 12719-MW22      | 12/10/2019             | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | 2.8   | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 5/30/2018              | <1.0                   | <1.0    | <1.0         | 6.6     | 15          | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 9/11/2019              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-MW23      | 12/10/2019             | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 5/30/2018              | <1.0                   | <1.0    | <1.0         | 19      | 12          | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 9/11/2019              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-MW24      | 12/10/2019             | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 5/30/2018              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 9/10/2019              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-MW25      | 12/10/2019             | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 5/30/2018              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | 15    | <1.0    | NT     | 0.51J | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 9/11/2019              | <1.0                   | <1.0    | <1.0         | 2.4     | <1.0        | 13    | <1.0    | <0.019 | 0.68J | <20    | 0.88J | <1.0  | <20    | 71J     | 9.7J  | <5.0  |
| 12719-RW1       | 12/10/2019             | 3.7                    | <1.0    | <1.0         | 10      | <1.0        | 21    | <1.0    | NT     | 1.5J  | 8.2J   | 1.8   | <1.0  | <20    | <100    | 40    | <5.0  |
|                 | 5/30/2018              | 67                     | 14      | 81           | 320     | 140         | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | 12J   | <5.0  |
|                 | 9/11/2019              | Free Product (0.20 ft) |         |              |         |             |       |         |        |       |        |       |       |        |         |       |       |
| 12/11/2019      | Free Product (0.10 ft) |                        |         |              |         |             |       |         |        |       |        |       |       |        |         |       |       |
| 12719-RW2       | 5/30/2018              | 21                     | 0.58J   | 35           | 140     | 82          | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 9/11/2019              | 7.3                    | 0.41J   | 3.4          | 56      | 32          | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 12/11/2019             | 15                     | 0.69J   | 13           | 150     | 68          | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-RW3       | 5/30/2018              | 1,800                  | <50     | 120          | 360     | 29J         | 280   | <50     | NT     | <500  | <1,000 | 49J   | <50   | <1,000 | <5,000  | 1,400 | <250  |
|                 | 9/11/2019              | 2,400                  | 42J     | 60           | 1,300   | 44J         | 61    | <50     | <0.019 | <500  | 460J   | 160   | <50   | <1,000 | <5,000  | 2,900 | <250  |
|                 | 12/11/2019             | 3,000                  | <50     | 79           | 1,100   | 34J         | 130   | <50     | NT     | <500  | <1,000 | 190   | <50   | <1,000 | <5,000  | 2,000 | <250  |
| 12719-RW3 (DUP) | 12/11/2019             | 2,900                  | <50     | 82           | 1,000   | 41J         | 140   | <50     | NT     | <500  | <1,000 | 190   | <50   | <1,000 | <5,000  | 2,000 | <250  |
| 12719-MW1D      | 8/18/2005              | <1.0                   | <5.0    | <5.0         | <1.0    | <5.0        | <5.0  | <1.0    | NT     | NT    | NT     | NT    | NT    | NT     | NT      | NT    | NT    |
|                 | 10/2/2008              | <1.00                  | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT    | NT     | NT    | NT    | NT     | NT      | NT    | NT    |
|                 | 10/31/2011             | <1.00                  | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | NT     | <5.00 | <10.0  | <5.00 | <5.00 | <100   | <1,000  | <20.0 | <5.00 |
|                 | 12/30/2014             | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 7/25/2017              | 0.43J                  | <1.0    | <1.0         | 0.68J   | 0.42J       | <1.0  | <1.0    | <0.020 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 5/30/2018              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 9/11/2019              | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|                 | 12/10/2019             | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |

TABLE 3  
GROUNDWATER LABORATORY DATA  
HOT SPOT #3005  
CHESNEE, SC  
SCDHEC UST PERMIT #12719  
TERRY PROJECT #2230.8L

| Well      | Date       | Benzene | Toluene | Ethylbenzene | Xylenes | Naphthalene | MTBE  | 1,2-DCA | EDB    | TAME | TBA   | DIPE | ETBE | ETBA | Ethanol | TAA  | TBF  |
|-----------|------------|---------|---------|--------------|---------|-------------|-------|---------|--------|------|-------|------|------|------|---------|------|------|
|           | Units      | ug/L    | ug/L    | ug/L         | ug/L    | ug/L        | ug/L  | ug/L    | ug/L   | ug/L | ug/L  | ug/L | ug/L | ug/L | ug/L    | ug/L | ug/L |
|           | RBSL       | 5       | 1,000   | 700          | 10,000  | 25          | 40    | 5       | 0.05   | 128  | 1,400 | 150  | 47   | n/a  | 10,000  | 240  | n/a  |
| 12719-DW2 | 5/30/2018  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
|           | 9/11/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | 0.68J | <1.0    | <0.019 | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
|           | 12/10/2019 | <1.0    | 0.42J   | <1.0         | <1.0    | <1.0        | 0.55J | <1.0    | NT     | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
| 12719-DW3 | 5/30/2018  | <1.0    | 0.81J   | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
|           | 9/10/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10  | 33    | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
|           | 12/10/2019 | <1.0    | 1.6     | <1.0         | 1.4     | 0.46J       | <1.0  | <1.0    | NT     | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
| 12719-SW1 | 5/30/2018  | <1.0    | <1.0    | <1.0         | <1.0    | 2.0         | 1.4   | <1.0    | NT     | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
|           | 9/11/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
|           | 12/11/2019 | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
| 12719-FB1 | 12/9/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
| 12719-FB2 | 12/10/2019 | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
| 12719-FB3 | 12/11/2019 | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
| 12719-TB  | 12/9/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |

NOTES:

RBSL = Risk-Based Screening Level

**Bold** lettering indicates parameter exceeds SCDHEC RBSL's except 1,2-DCA which is based on EPA limit

ug/L = micrograms per liter

NT = Parameter was not tested during this event

J - Indicates an estimated value

(DUP) = Duplicate

FB = Field Blank

TB = Trip Blank

MTBE = Methyl tertiary butyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

TAME = tert-Butyl methyl ether

TBA = tert-Butyl Alcohol or t-Butanol

DIPE = Isopropyl ether or diisopropyl ether

ETBE = Ethyl tert-butyl ether

ETBA = 3,3-Dimethyl-1-butanol or ethyl tert-butanol

TAA = tert-amyf alcohol

TBF = tert-butyl formate

## **J. FIGURES**

### **1. Topographic Map**

Figure 1 Topographic Map - Attached

### **2. Site Base Map**

Figure 2 Site Base Map - Attached

### **3. CoC Site Maps**

Figure 3 Soil CoC Map - Not Applicable

Figure 4A Groundwater CoC Map - Attached

Figure 4B Groundwater CoC Map (Oxygenates) - Attached

### **4. Site Potentiometric Maps**

Figure 5 Site Potentiometric Map - Attached

### **5. Geologic Cross Sections**

Figure 6 Geologic Cross Sections - Not Applicable

### **6. Predicted Migration and Attenuation of CoCs**

Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable

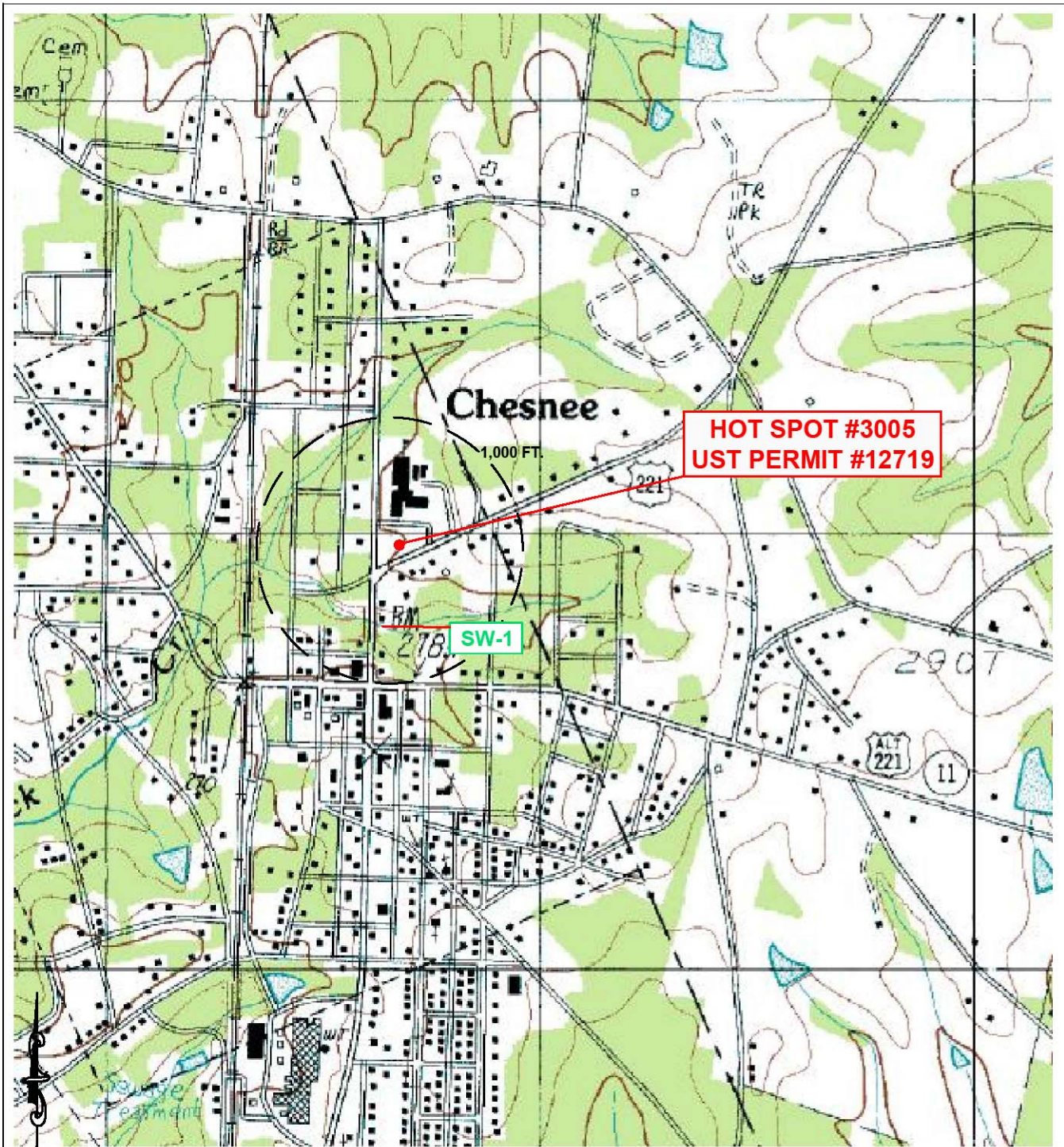


Image courtesy of the U.S. Geological Survey

## FIGURE 1 TOPOGRAPHIC MAP

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA



*... providing our clients with the best services available,  
actually understanding our clients objectives,  
and making their objectives our own!*

PO Box 25  
Summerville, South Carolina 29484  
(800) 325-0605 (843)-873-8200 fax: (843)-873-8765

SIZE  
B

TERRY Project No.  
2230.8L

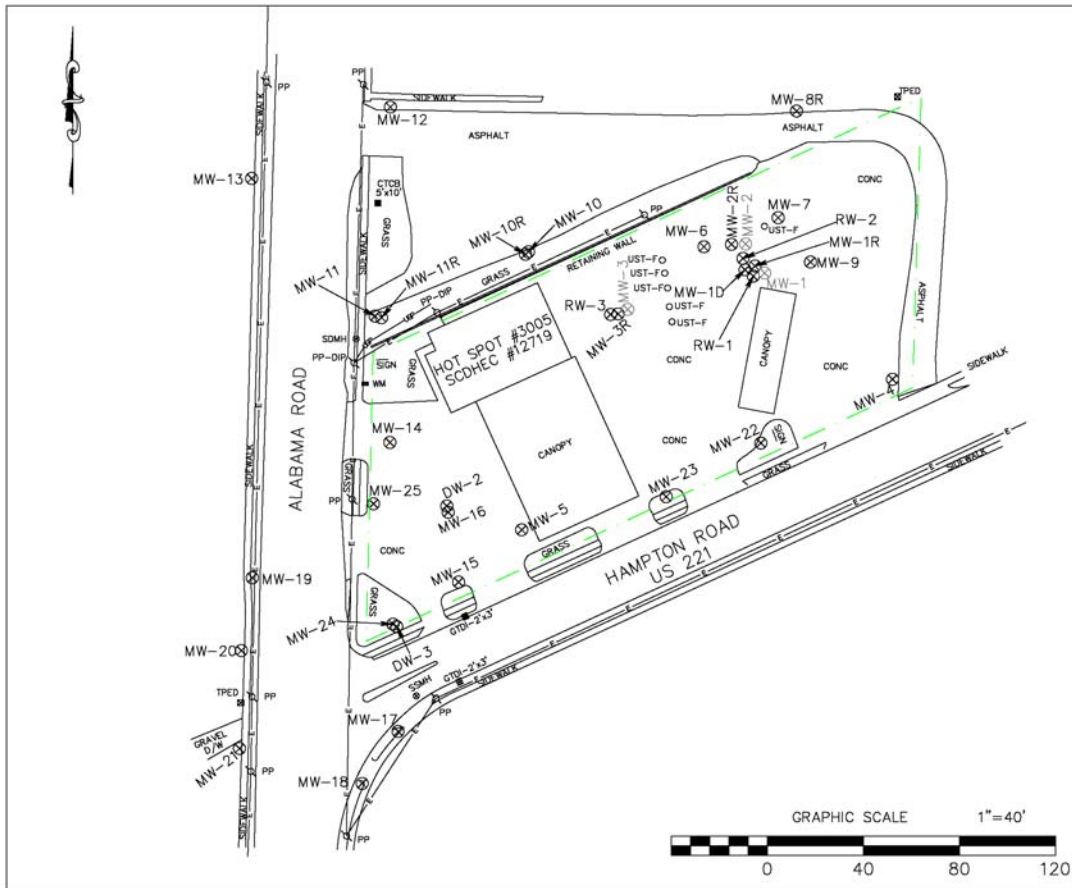
DWG NO.

Figure 1 Topographic Map

REV

SCALE: As Shown

DATE: January 2020



**LEGEND & ABBREVIATIONS:**

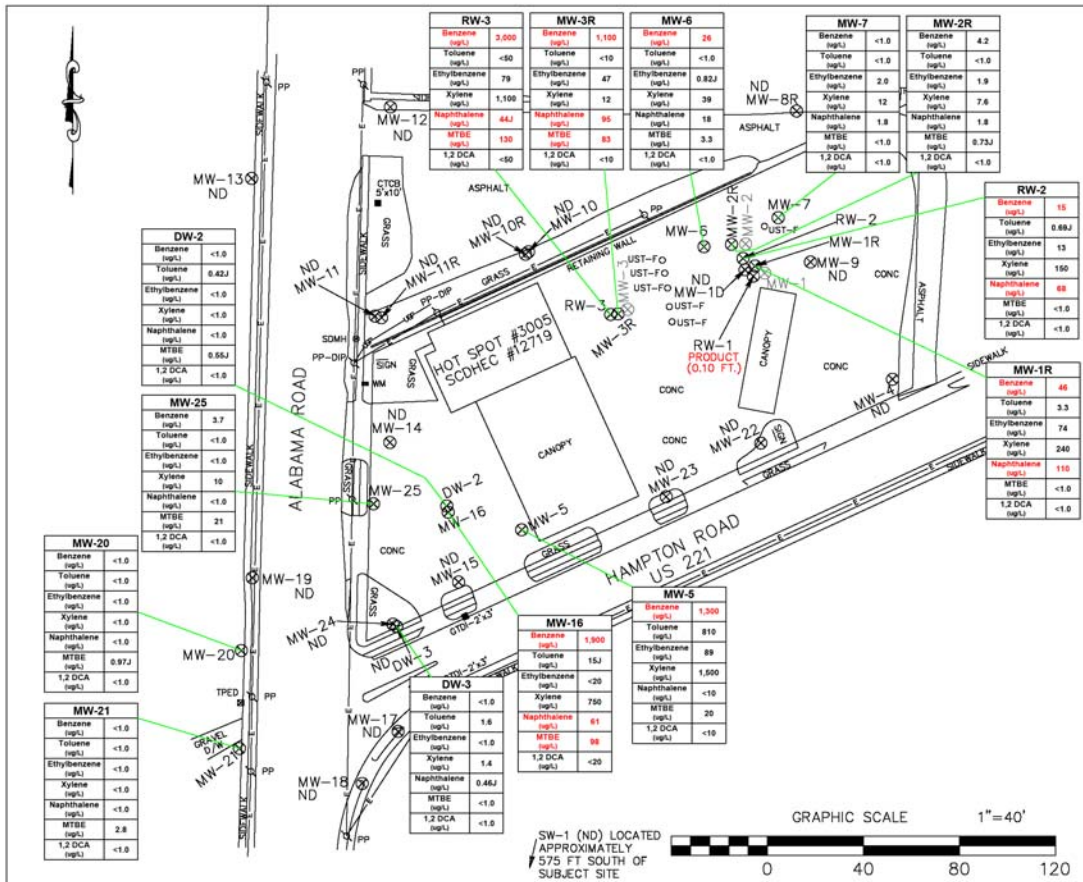
- ⊗ MW = MONITORING WELL
  - ⊗ ABANDONED MONITORING WELL
  - ⊗ TPED = TELEPHONE PEDESTAL
  - ⊗ SDMH = STORM DRAIN MAN HOLE
  - ⊗ SSMH = SANITARY SEWER MAN HOLE
  - ⊗ WM = WATER METER
  - ⊗ PP = POWER POLE
  - ⊗ LP = LIGHT POLE
  - ⊗ GM = GAS METER
  - ⊗ GV = GAS VALVE
  - ⊗ USTF = UNDERGROUND STORAGE TANK FILL
  - GTCB = GRATE TOP CATCH BASIN
  - SIGN = SIGN
  - KD = KEROSENE DISPENSER
  - E — = OVERHEAD POWER LINE
  - UFP — = UNDERGROUND POWER LINE
  - — — = APPROXIMATE PROPERTY LINE
- ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (i.e. 12719-MW 1)



**FIGURE 2  
SITE BASE MAP**

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

|                 |                   |
|-----------------|-------------------|
| TERRY PROJECT # | SCDHEC SITE ID #  |
| 2230.8L         | 12719             |
| SCALE 1" = 40'  | DATE January 2020 |

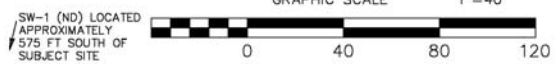


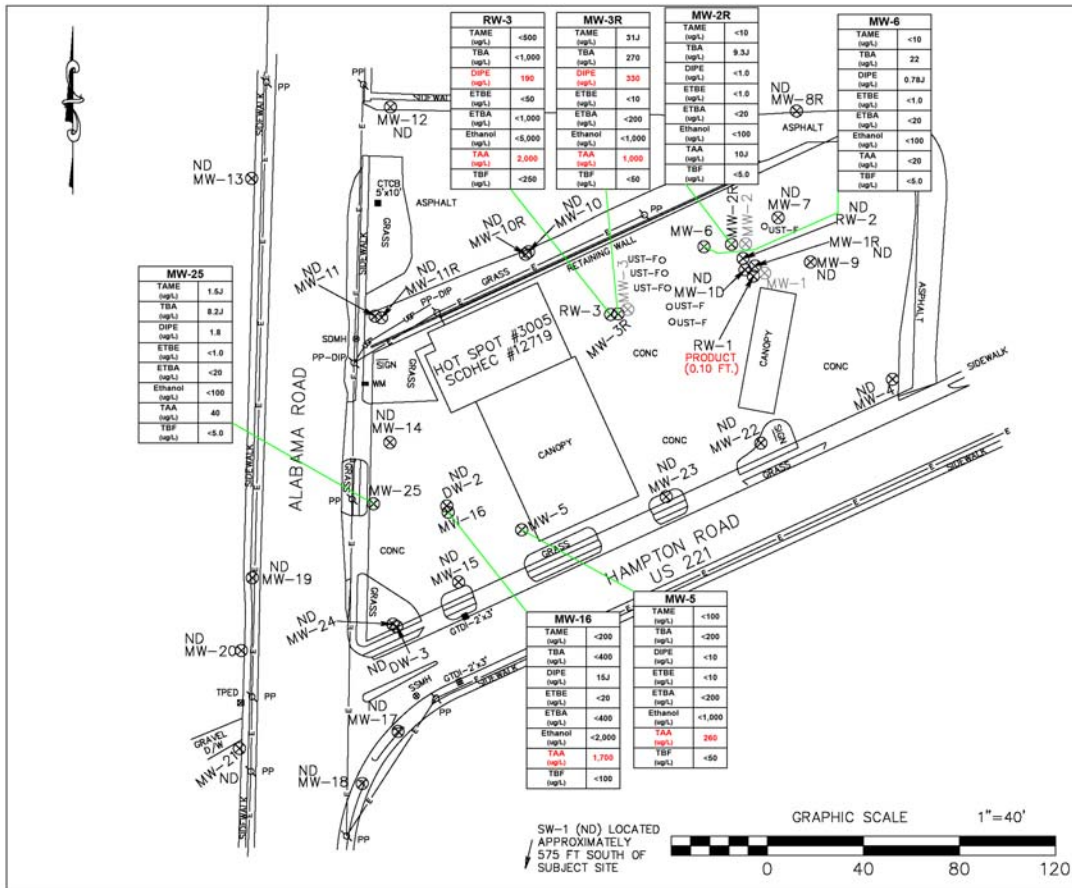
**FIGURE 4A  
GROUNDWATER COC MAP**

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

TERRY PROJECT # 2230.8L SCONEC SITE ID # 12719  
SCALE 1" = 40' DATE January 2020

**TERRY ENVIRONMENTAL SERVICES**  
CLIENTS FIRST ALWAYS

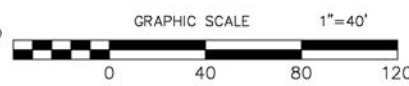




**FIGURE 4B**  
**GROUNDWATER COC MAP (OXYGENATES)**

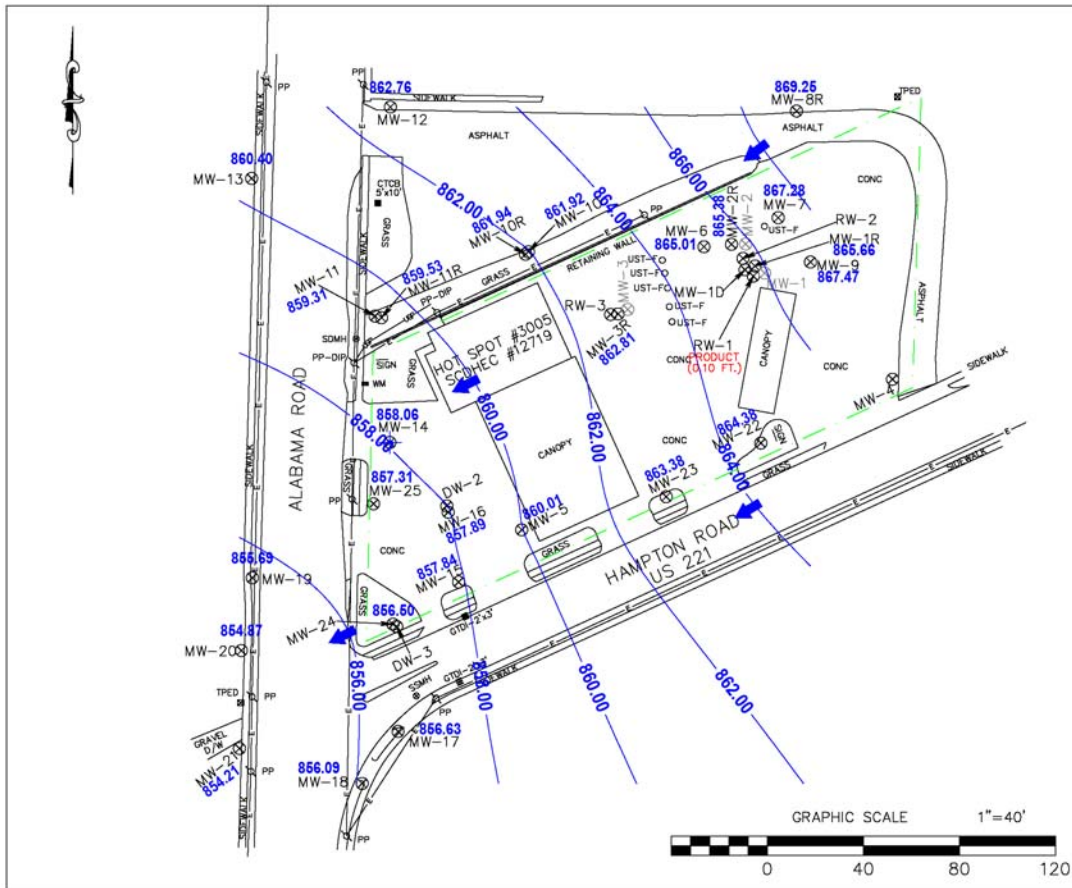
HOT SPOT #3005  
 107 HAMPTON STREET  
 CHESNEE, SOUTH CAROLINA

|                 |                   |
|-----------------|-------------------|
| TERRY PROJECT # | SCONEC SITE ID #  |
| 2230.8L         | 12719             |
| SCALE 1" = 40'  | DATE January 2020 |




SW-1 (ND) LOCATED APPROXIMATELY 575 FT SOUTH OF SUBJECT SITE





- LEGEND & ABBREVIATIONS:**
- ⊗ MW = MONITORING WELL
  - ⊗ ABANDONED MONITORING WELL
  - ⊗ TPED = TELEPHONE PEDESTAL
  - ⊗ SDMH = STORM DRAIN MAN HOLE
  - ⊗ SSMH = SANITARY SEWER MAN HOLE
  - ⊗ WM = WATER METER
  - ⊗ PP = POWER POLE
  - ⊗ LP = LIGHT POLE
  - ⊗ GM = GAS METER
  - ⊗ GV = GAS VALVE
  - ⊗ USTF = UNDERGROUND STORAGE TANK FILL
  - ⊗ GTCB = GRATE TOP CATCH BASIN
  - ⊗ SIGN = SIGN
  - ⊗ KD = KEROSENE DISPENSER
  - ⊗ E = OVERHEAD POWER LINE
  - ⊗ UEP = UNDERGROUND POWER LINE
  - ⊗ APPROXIMATE PROPERTY LINE
  - 865.66 GROUNDWATER ELEVATION
  - 860.00 PIEZOMETRIC CONTOUR (RELATIVE TO ASSUMED DATUM)
  - ➔ GROUNDWATER FLOW DIRECTION
- MEASUREMENTS COLLECTED ON DECEMBER 9-11, 2019
- ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (ie. 12719-MW 1)



**TERRY ENVIRONMENTAL SERVICES**  
CLIENTS FIRST ALWAYS

**FIGURE 5**  
**SITE POTENTIOMETRIC MAP**

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

|                 |                  |
|-----------------|------------------|
| TERRY PROJECT # | SCONEC SITE ID # |
| 2230.8L         | 12719            |
| SCALE           | DATE             |
| 1" = 40'        | January 2020     |

**K. APPENDICES**

**1. Appendix A: Site Survey**

Not Applicable

**2. Appendix B: Sampling Logs and Laboratory Data**

**3. Appendix C: Tax Map**

Not Applicable

**4. Appendix D: Soil Boring/Field Screening Logs**

Not Applicable

**5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms**

Not Applicable

**6. Appendix F: Aquifer Evaluation Forms**

Not Applicable

**7. Appendix G: Disposal Manifests**

**8. Appendix H: Local Zoning Regulations**

Not Applicable

**9. Appendix I: Fate and Transport Modeling Data**

Not Applicable

**10. Appendix J: Access Agreements**

Not Applicable

**11. Appendix K: Data Verification Checklist**

**APPENDIX A**

**Site Survey  
(Not Applicable)**

## **APPENDIX B**

### **Sampling Logs and Laboratory Data**

**Groundwater Sampling Log**




**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |  |  |   |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|--|--|---|------|
| Terry Project ID               |               | 2230.8L        |                          | Well ID                              |  | 12719 - MW-1R                                    |   |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |   |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |  |  |   |      |
| Date                           |               | 12/11/2019     |                          |                                      |  |  |   |      |
| Field Personnel                |               | CM             |                          | Well Diameter                        |  | 2  | in  |      |
| General Weather                |               | Clear          |                          | Screened Interval                    |  | TD 36  | ft  |      |
| Ambient Air Temperature        |               | 40°F           |                          | Total Well Depth (nearest 0.1')      |  | 36.0'  | ft  |      |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |  | 23.94  | ft  |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                 |  | 12.06   | ft   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                |  | 1.96  | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)               |  | 5.89  | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                    |  | 6   | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailey pump) |  |   |      |
| Last Calibration (time)        | 0845          |                | Last Verification (time) |                                      | Well Yield                             |  | Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High <input type="checkbox"/> | 36.0 |
| Volume (gal)                   | INT           | 2              | 4                        | 6                                    |  |  |   |      |
| Time (military)                | 1019          | 1030           | 1035                     | 1040                                 |  |  |   |      |
| pH (su)                        | 5.23          | 5.25           | 5.33                     | 5.35                                 |  |  |   |      |
| Spec Conductivity (mS/cm)      | 0.203         | 0.215          | 0.216                    | 0.212                                |  |  |   |      |
| Water Temperature (°C)         | 17.7          | 17.9           | 17.0                     | 16.9                                 |  |  |   |      |
| Turbidity (NTU)                | 54.5          | 499            | 497                      | 497                                  |  |  |   |      |
| Dissolved Oxygen (mg/L)        | 1.82          | 2.41           | 2.50                     | 2.40                                 |  |  |   |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |  |  |   |      |
| -overall condition acceptable? |               |                |                          |                                      |  |  |   |      |
| -well cap acceptable?          |               |                |                          | No -> Falling apart                  |  |  |   |      |
| -manhole and cover acceptable? |               |                |                          | No Boils                             |  |  |   |      |
| -well pad acceptable?          |               |                |                          |                                      |  |  |   |      |
| -area safe?                    |               |                |                          |                                      |  |  |   |      |
| -other comments                |               |                |                          |                                      |  |  |   |      |

**Groundwater Sampling Log**

|  |               |                |                          |  |   |  |  |      |
|--|---------------|----------------|--------------------------|--|---|--|--|------|
|  |               |                |                          | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |   |  |  |      |
| <b>Site Specific Information</b>   |               |                |                          | <b>Monitoring Well Information</b>                     |   |  |  |      |
| Terry Project ID   |               | 2230.8L        |                          | Well ID  |   | 12719 - MW-2R                                    |  |      |
| SCDHEC Permit No.  |               | 12719          |                          | Testing Parameters                                     |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |  |      |
| Project Name   |               | Hot Spot #3005 |                          |  |   |  |  |      |
| Date   |               | 12/10/2019     |                          |  |   |  |  |      |
| Field Personnel  |               | C.M.           |                          | Well Diameter  |   | 2  | in   |      |
| General Weather  |               | Rainy          |                          | Screened Interval                                      |   | 20-30  | ft   |      |
| Ambient Air Temperature  |               | 55°F           |                          | Total Well Depth (nearest 0.1')                        |   | 30.2   | ft   |      |
| <b>Quality Assurance</b>   |               |                |                          | Depth to Groundwater (nearest 0.01')                   |   | 23.87  | ft   |      |
| Meter  | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2  | Length of Water Column                  |  | 6.33   | ft   |
| Serial Number  | VTPGA3X       |                | Serial Number            | V3KNWUE9   | 1 Casing Volume (0.163)                 |  |  | ft   |
| Calibration Constant   | 4.00 su       |                | Calibration Constant     | 4.00 su  | 3 Casing Volumes (0.489)                |  |  | gals |
| Calibration Constant   | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm   | Total Volume Purged                     |  |  | gals |
| Calibration Constant   | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU  | Purge Technique Utilized (bailer, pump) |  |  |      |
| Last Calibration (time)  | 0800          |                | Last Verification (time) | 1600   | Well Yield                              |  | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> | 30.2 |
| Volume (gal)   | ENT           |                |                          |  |   |  |  |      |
| Time (military)  | 1723          |                |                          |  |   |  |  |      |
| pH (su)  | 5.21          |                |                          |  |   |  |  |      |
| Spec Conductivity (mS/cm)  | 0.347         |                |                          |  |   |  |  |      |
| Water Temperature (°C)   | 18.0          |                |                          |  |   |  |  |      |
| Turbidity (NTU)  | 82.9          |                |                          |  |   |  |  |      |
| Dissolved Oxygen (mg/L)  | 2.98          |                |                          |  |   |  |  |      |
| <b>Well Condition Information</b>  |               |                |                          | <b>Additional Comments</b>                             |   |  |  |      |
| -overall condition acceptable?   |               |                |                          | Yes  |   |  |  |      |
| -well cap acceptable?  |               |                |                          |  |   |  |  |      |
| -manhole and cover acceptable?   |               |                |                          |  |   |  |  |      |
| -well pad acceptable?  |               |                |                          |  |   |  |  |      |
| -area safe?  |               |                |                          |  |   |  |  |      |
| -other comments  |               |                |                          |  |   |  |  |      |

*[Handwritten signature]*

### Groundwater Sampling Log



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                   |                          | Monitoring Well Information  |   |  |             |             |
|--------------------------------|---------------|-------------------|--------------------------|--|---|--|-------------|-------------|
| Terry Project ID               |               | 2230.8L           |                          | Well ID  |   | 12719 - <i>MW-3R</i>                             |             |             |
| SCDHEC Permit No.              |               | 12719             |                          | Testing Parameters   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |             |             |
| Project Name                   |               | Hot Spot #3005    |                          |  |   |  |             |             |
| Date                           |               | <i>12/11/2019</i> |                          |  |   |  |             |             |
| Field Personnel                |               | <i>CM</i>         |                          | Well Diameter  |   | <i>2</i>   | in          |             |
| General Weather                |               | <i>Clear</i>      |                          | Screened Interval  |   | <i>26-36</i>                                     | ft          |             |
| Ambient Air Temperature        |               | <i>40°F</i>       |                          | Total Well Depth (nearest 0.1')  |   | <i>36.1</i>                                      | ft          |             |
| Quality Assurance              |               |                   |                          | Depth to Groundwater (nearest 0.01')   |   | <i>27.44</i>                                     | ft          |             |
| Meter                          | Horiba U-52-2 | or                | Meter                    | Horiba U-52-2  | Length of Water Column                  |  | <i>8.66</i> | ft          |
| Serial Number                  | VPTGA3X       |                   | Serial Number            | V3KNWUE9   | 1 Casing Volume (0.163)                 |  |             | ft          |
| Calibration Constant           | 4.00 su       |                   | Calibration Constant     | 4.00 su  | 3 Casing Volumes (0.489)                |  |             | gals        |
| Calibration Constant           | 4.49 mS/cm    |                   | Calibration Constant     | 4.49 mS/cm   | Total Volume Purged                     |  |             | gals        |
| Calibration Constant           | 0.0 NTU       |                   | Calibration Constant     | 0.0 NTU  | Purge Technique Utilized (bailer, pump) |  |             |             |
| Last Calibration (time)        | <i>0845</i>   |                   | Last Verification (time) |  | Well Yield                              |  |             | <i>36.1</i> |
|                                |               |                   |                          | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   |  |             |             |
| Volume (gal)                   | <i>FAT</i>    |                   |                          |  |   |  |             |             |
| Time (military)                | <i>1105</i>   |                   |                          |  |   |  |             |             |
| pH (su)                        | <i>5.76</i>   |                   |                          |  |   |  |             |             |
| Spec Conductivity (mS/cm)      | <i>0.294</i>  |                   |                          |  |   |  |             |             |
| Water Temperature (°C)         | <i>16.8</i>   |                   |                          |  |   |  |             |             |
| Turbidity (NTU)                | <i>120</i>    |                   |                          |  |   |  |             |             |
| Dissolved Oxygen (mg/L)        | <i>2.01</i>   |                   |                          |  |   |  |             |             |
| Well Condition Information     |               |                   |                          | Additional Comments  |   |  |             |             |
| -overall condition acceptable? |               |                   |                          |  |   |  |             |             |
| -well cap acceptable?          |               |                   |                          | <i>No - Cap is degraded</i>  |   |  |             |             |
| -manhole and cover acceptable? |               |                   |                          | <i>No bolts</i>  |   |  |             |             |
| -well pad acceptable?          |               |                   |                          |  |   |  |             |             |
| -area safe?                    |               |                   |                          |  |   |  |             |             |
| -other comments                |               |                   |                          |  |   |  |             |             |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                          |               | Monitoring Well Information             |       |  |  |
|--------------------------------|---------------|--------------------------|---------------|---|-------|--|--|
| Terry Project ID               |               | 2230.8L                  |               | Well ID                                 |       | 12719 - MW-4                                     |  |
| SCDHEC Permit No.              |               | 12719                    |               | Testing Parameters                      |       | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |  |
| Project Name                   |               | Hot Spot #3005           |               |   |       |  |  |
| Date                           |               | 12/10/2019               |               |   |       |  |  |
| Field Personnel                |               | CM                       |               | Well Diameter                           |       | 2  | in   |
| General Weather                |               | Rainy                    |               | Screened Interval                       |       | 36-46  | ft   |
| Ambient Air Temperature        |               | 55°F                     |               | Total Well Depth (nearest 0.1')         |       | 45.6   | ft   |
| Quality Assurance              |               |                          |               | Depth to Groundwater (nearest 0.01')    |       |  |  |
| Meter                          | Horiba U-52-2 | Meter                    | Horiba U-52-2 | Length of Water Column                  |       | 22.77  | ft   |
| Serial Number                  | VTPGA3X       | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)                 |       | 3.71   | ft   |
| Calibration Constant           | 4.00 su       | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)                |       | 11.13  | gals                                       |
| Calibration Constant           | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged                     |       | 18.75  | gals                                       |
| Calibration Constant           | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailer, pump) |       |  |  |
| Last Calibration (time)        | 0600          | Last Verification (time) |               | Well Yield                              |       | Low <input type="checkbox"/>                     | Medium <input checked="" type="checkbox"/> |
|                                |               |                          |               |   |       | High <input type="checkbox"/>                    | 45.6                                       |
| Volume (gal)                   | INT           | 3.75                     | 7.5           | 11.25                                   | 15.0  | 18.75  |  |
| Time (military)                | 1131          | 1135                     | 1137          | 1141                                    | 1149  | 1156   |  |
| pH (su)                        | 5.79          | 6.55                     | 6.80          | 6.94                                    | 7.30  | 7.50   |  |
| Spec Conductivity (mS/cm)      | 0.310         | 0.238                    | 0.224         | 0.227                                   | 0.224 | 0.225  |  |
| Water Temperature (°C)         | 17.6          | 18.7                     | 18.5          | 18.5                                    | 18.7  | 18.9   |  |
| Turbidity (NTU)                | 23.2          | 54.7                     | 13.6          | 38.2                                    | 21.2  | 16.7   |  |
| Dissolved Oxygen (mg/L)        | 2.69          | 2.23                     | 4.50          | 4.92                                    | 4.84  | 3.84   |  |
| Well Condition Information     |               |                          |               | Additional Comments                     |       |  |  |
| -overall condition acceptable? |               |                          |               |   |       |  |  |
| -well cap acceptable?          |               |                          |               | Extremely degraded                      |       |  |  |
| -manhole and cover acceptable? |               |                          |               | filled w/ sediment                      |       |  |  |
| -well pad acceptable?          |               |                          |               |   |       |  |  |
| -area safe?                    |               |                          |               |   |       |  |  |
| -other comments                |               |                          |               |   |       |  |  |



**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|------|
| Terry Project ID               |               | 2230.8L        |                          | Well ID                              |   | 12719 - MW-5   |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol   |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |      |
| Date                           |               | 12 / 11 / 2019 |                          | Well Diameter                        |   | 2  | in   |
| Field Personnel                |               | CM             |                          | Screened Interval                    |   | 22-32  | ft   |
| General Weather                |               | Clear          |                          | Total Well Depth (nearest 0.1')      |   | 32.2   | ft   |
| Ambient Air Temperature        |               | 40°F           |                          | Depth to Groundwater (nearest 0.01') |   | 28.96  | ft   |
| Quality Assurance              |               |                |                          | Length of Water Column               |   | 3.24   | ft   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | 1 Casing Volume (0.163)                 |  | ft   |
| Serial Number                  | VPTGA3X       |                | Serial Number            | V3KNWUE9                             | 3 Casing Volumes (0.489)                |  | gals |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | Total Volume Purged                     |  | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Purge Technique Utilized (bailer, pump) |  |      |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Well Yield                              | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> | 32.2 |
| Last Calibration (time)        | 0845          |                | Last Verification (time) |                                      |   |  |      |
| Volume (gal)                   | INT           |                |                          |                                      |   |  |      |
| Time (military)                | 1145          |                |                          |                                      |   |  |      |
| pH (su)                        | 6.07          |                |                          |                                      |   |  |      |
| Spec Conductivity (mS/cm)      | 0.070         |                |                          |                                      |   |  |      |
| Water Temperature (°C)         | 16.4          |                |                          |                                      |   |  |      |
| Turbidity (NTU)                | 496           |                |                          |                                      |   |  |      |
| Dissolved Oxygen (mg/L)        | 3.30          |                |                          |                                      |   |  |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |      |
| -overall condition acceptable? |               |                |                          |                                      |   |  |      |
| -well cap acceptable?          |               |                |                          | Degraded Cap                         |   |  |      |
| -manhole and cover acceptable? |               |                |                          | Sediment in vault                    |   |  |      |
| -well pad acceptable?          |               |                |                          |                                      |   |  |      |
| -area safe?                    |               |                |                          |                                      |   |  |      |
| -other comments                |               |                |                          |                                      |   |  |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |  |  |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|--|--|------|
| Terry Project ID               |               | 2230.8L        |                          | Well ID                              |  | 12719 - MW-6                                     |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |  |  |      |
| Date                           |               | 12/11/2019     |                          |                                      |  |  |      |
| Field Personnel                |               | C.A.A.         |                          | Well Diameter                        |  | 2  | in   |
| General Weather                |               | Clear          |                          | Screened Interval                    |  | 26-34  | ft   |
| Ambient Air Temperature        |               | 40°F           |                          | Total Well Depth (nearest 0.1')      |  | 36.1   | ft   |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |  | 24.13  | ft   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column   | 11.97  | ft   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)  | 1.95   | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)   | 5.85   | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged  | 6  | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)  |  | 36.1 |
| Last Calibration (time)        | 0845          |                | Last Verification (time) |                                      | Well Yield Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High <input type="checkbox"/> |  |      |
| Volume (gal)                   | INT           | 2              | 4                        | 6                                    |  |  |      |
| Time (military)                | 0924          | 0932           | 0939                     | 0945                                 |  |  |      |
| pH (su)                        | 4.36          | 4.92           | 4.85                     | 4.86                                 |  |  |      |
| Spec Conductivity (mS/cm)      | 0.262         | 0.371          | 0.414                    | 0.415                                |  |  |      |
| Water Temperature (°C)         | 16.3          | 15.9           | 16.9                     | 16.8                                 |  |  |      |
| Turbidity (NTU)                | 24.3          | 498            | 490                      | 492                                  |  |  |      |
| Dissolved Oxygen (mg/L)        | 2.97          | 2.79           | 2.69                     | 2.5                                  |  |  |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |  |  |      |
| -overall condition acceptable? |               |                |                          |                                      |  |  |      |
| -well cap acceptable?          |               |                |                          |                                      |  |  |      |
| -manhole and cover acceptable? |               |                |                          | Filled w/ water/missing abut         |  |  |      |
| -well pad acceptable?          |               |                |                          |                                      |  |  |      |
| -area safe?                    |               |                |                          |                                      |  |  |      |
| -other comments                |               |                |                          |                                      |  |  |      |

**Groundwater Sampling Log**




**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS


P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |                           |                |                          |                           | Monitoring Well Information             |       |  |                                 |  |
|--------------------------------|---------------------------|----------------|--------------------------|---------------------------|---|-------|--|---------------------------------|--|
| Terry Project ID               |                           | 2230.8L        |                          |                           | Well ID                                 |       | 12719 - MW-7                                     |                                 |  |
| SCDHEC Permit No.              |                           | 12719          |                          |                           | Testing Parameters                      |       | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                                 |  |
| Project Name                   |                           | Hot Spot #3005 |                          |                           |   |       |  |                                 |  |
| Date                           |                           | 12 / 9 / 2019  |                          |                           |   |       |  |                                 |  |
| Field Personnel                |                           | CM             |                          |                           | Well Diameter                           |       | 2  | in                              | TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1' |
| General Weather                |                           | Cloudy         |                          |                           | Screened Interval                       |       | 26-36  | ft                              |  |
| Ambient Air Temperature        |                           | 45             |                          |                           | Total Well Depth (nearest 0.1')         |       | 36.4   | ft                              |  |
| Quality Assurance              |                           |                |                          |                           | Depth to Groundwater (nearest 0.01')    |       | 22.24  | ft                              |  |
| Meter Serial Number            | Horiba U-52-2<br>VPTPGA3X | or             | Meter Serial Number      | Horiba U-52-2<br>V3KNWUE9 | Length of Water Column                  |       | 14.06  | ft                              |  |
| Calibration Constant           | 4.00 su                   |                | Calibration Constant     | 4.00 su                   | 1 Casing Volume (0.163)                 |       | 2.31   | ft                              |  |
| Calibration Constant           | 4.49 mS/cm                |                | Calibration Constant     | 4.49 mS/cm                | 3 Casing Volumes (0.489)                |       | 6.92   | gals                            |  |
| Calibration Constant           | 0.0 NTU                   |                | Calibration Constant     | 0.0 NTU                   | Total Volume Purged                     |       | 12.05  | gals                            |  |
| Last Calibration (time)        | 1300                      |                | Last Verification (time) | 1700                      | Purge Technique Utilized (bailer, pump) |       |  |                                 |  |
|                                |                           |                |                          |                           | Well Yield                              |       | Low <input type="checkbox"/>                     | Medium <input type="checkbox"/> | High <input checked="" type="checkbox"/>                             |
| Volume (gal)                   | 1.17                      | 2.5            | 5.0                      | 7.5                       | 10.0                                    | 12.5  |  |                                 |  |
| Time (military)                | 1747                      | 1755           | 1802                     | 1808                      | 1819                                    | 1828  |  |                                 |  |
| pH (su)                        | 4.14                      | 4.31           | 4.53                     | 4.60                      | 4.66                                    | 4.66  |  |                                 |  |
| Spec Conductivity (mS/cm)      | 0.130                     | 0.086          | 0.088                    | 0.086                     | 0.076                                   | 0.072 |  |                                 |  |
| Water Temperature (°C)         | 17.8                      | 18.4           | 19.4                     | 19.2                      | 19.1                                    | 18.7  |  |                                 |  |
| Turbidity (NTU)                | 380                       | 499            | 497                      | 463                       | 299                                     | 204   |  |                                 |  |
| Dissolved Oxygen (mg/L)        | 4.55                      | 3.71           | 3.35                     | 3.42                      | 3.87                                    | 3.55  |  |                                 |  |
| Well Condition Information     |                           |                |                          |                           | Additional Comments                     |       |  |                                 |  |
| -overall condition acceptable? |                           |                |                          |                           |   |       |  |                                 |  |
| -well cap acceptable?          |                           |                |                          |                           |   |       |  |                                 |  |
| -manhole and cover acceptable? |                           |                |                          |                           | 16 gals missing                         |       |  |                                 |  |
| -well pad acceptable?          |                           |                |                          |                           |   |       |  |                                 |  |
| -area safe?                    |                           |                |                          |                           |   |       |  |                                 |  |
| -other comments                |                           |                |                          |                           |   |       |  |                                 |  |


**Groundwater Sampling Log**

|  |  |                |       |                          |  |               |  |   |   |
|--|--|----------------|-------|--------------------------|--|---------------|--|---|---|
|  |  |                |       |                          | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |               |  |   |   |
| <b>Site Specific Information</b>   |  |                |       |                          | <b>Monitoring Well Information</b>                     |               |  |   |   |
| Terry Project ID   |  | 2230.8L        |       |                          | Well ID  |               | 12719 - MW-8R                                    |   |   |
| SCDHEC Permit No.  |  | 12719          |       |                          | Testing Parameters                                     |               | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |   |   |
| Project Name   |  | Hot Spot #3005 |       |                          |  |               |  |   |   |
| Date   |  | 12/9/2019      |       |                          |  |               |  |   |   |
| Field Personnel  |  | CM             |       |                          | Well Diameter  |               | 2  | in                                      | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| General Weather  |  | Misty          |       |                          | Screened Interval                                      |               | 20-30  | ft                                      |   |
| Ambient Air Temperature  |  | 45°F           |       |                          | Total Well Depth (nearest 0.1')                        |               | 30.6   | ft                                      |   |
| <b>Quality Assurance</b>   |  |                |       |                          | Depth to Groundwater (nearest 0.01')                   |               | 18.76  | ft                                      |   |
| Meter  |  | Horiba U-52-2  |       | Meter                    |  | Horiba U-52-2 |  | Length of Water Column                  |   |
| Serial Number  |  | VTPGA3X        |       | or                       |  | Serial Number |  | V3KNWUE9                                |   |
| Calibration Constant   |  | 4.00 su        |       | Calibration Constant     |  | 4.00 su       |  | 1 Casing Volume (0.163)                 |   |
| Calibration Constant   |  | 4.49 mS/cm     |       | Calibration Constant     |  | 4.49 mS/cm    |  | 3 Casing Volumes (0.489)                |   |
| Calibration Constant   |  | 0.0 NTU        |       | Calibration Constant     |  | 0.0 NTU       |  | Total Volume Purged                     |   |
| Last Calibration (time)  |  | 1300           |       | Last Verification (time) |  |               |  | Purge Technique Utilized (bailed, pump) |   |
|  |  |                |       |                          | Well Yield   |               | Low  | Medium                                  | High <input checked="" type="checkbox"/>  |
| Volume (gal)   |  | INT            | 2     | 4                        | 6  | 8             |  |   | 30.6  |
| Time (military)  |  | 1627           | 1633  | 1637                     | 1642   | 1647          |  |   |   |
| pH (su)  |  | 4.14           | 4.15  | 4.28                     | 4.36   | 4.38          |  |   |   |
| Spec Conductivity (mS/cm)  |  | 0.036          | 0.036 | 0.038                    | 0.041  | 0.044         |  |   |   |
| Water Temperature (°C)   |  | 17.4           | 17.6  | 18.6                     | 18.2   | 18.6          |  |   |   |
| Turbidity (NTU)  |  | 357            | 499   | 497                      | 494  | 498           |  |   |   |
| Dissolved Oxygen (mg/L)  |  | 5.61           | 5.00  | 5.28                     | 5.38   | 5.37          |  |   |   |
| <b>Well Condition Information</b>  |  |                |       |                          | <b>Additional Comments</b>                             |               |  |   |   |
| -overall condition acceptable?   |  |                |       |                          | Yes  |               |  |   |   |
| -well cap acceptable?  |  |                |       |                          |  |               |  |   |   |
| -manhole and cover acceptable?   |  |                |       |                          |  |               |  |   |   |
| -well pad acceptable?  |  |                |       |                          |  |               |  |   |   |
| -area safe?  |  |                |       |                          |  |               |  |   |   |
| -other comments  |  |                |       |                          |  |               |  |   |   |


**Groundwater Sampling Log**

|  |  |                |       |  |       |  |    |  |  |                               |
|--|--|----------------|-------|--|-------|--|----|--|--|-------------------------------|
|  |  |                |       | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |       |  |    |  |  |                               |
|  |  |                |       | <b>Site Specific Information</b>                       |       |  |    | <b>Monitoring Well Information</b>                                   |  |                               |
| Terry Project ID   |  | 2230.8L        |       | Well ID  |       | 12719 - MW-9                                     |    |  |  |                               |
| SCDHEC Permit No.  |  | 12719          |       | Testing Parameters                                     |       | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |    |  |  |                               |
| Project Name   |  | Hot Spot #3005 |       |  |       |  |    |  |  |                               |
| Date   |  | 12/10/2019     |       |  |       |  |    |  |  |                               |
| Field Personnel  |  | CM             |       | Well Diameter  |       | 2  | in | TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1' |  |                               |
| General Weather  |  | Rainy          |       | Screened Interval                                      |       | Unknown  | ft |  |  |                               |
| Ambient Air Temperature  |  | 55°F           |       | Total Well Depth (nearest 0.1')                        |       | 35.1   | ft |  |  |                               |
| <b>Quality Assurance</b>   |  |                |       | Depth to Groundwater (nearest 0.01')                   |       | 22.94  | ft |  |  |                               |
| Meter  |  | Horiba U-52-2  |       | Meter  |       | Horiba U-52-2                                    |    |  |  | Length of Water Column        |
| Serial Number  |  | VPTPGA3X       |       | or   |       | Serial Number                                    |    | V3KNWUE9   |  |                               |
| Calibration Constant   |  | 4.00 su        |       | Calibration Constant                                   |       | 4.00 su  |    | 1 Casing Volume (0.163)  |  |                               |
| Calibration Constant   |  | 4.49 mS/cm     |       | Calibration Constant                                   |       | 4.49 mS/cm                                       |    | 3 Casing Volumes (0.489)   |  |                               |
| Calibration Constant   |  | 0.0 NTU        |       | Calibration Constant                                   |       | 0.0 NTU  |    | Total Volume Purged  |  |                               |
| Last Calibration (time)  |  | 0800           |       | Last Verification (time)                               |       | 1200   |    | Purge Technique Utilized (bailer, pump)                              |  |                               |
|  |  |                |       | Well Yield   |       |  |    | Low <input type="checkbox"/>   | Medium <input checked="" type="checkbox"/> | High <input type="checkbox"/> |
| Volume (gal)   |  | INT            | 2     | 4  | 6     |  |    |  |  |                               |
| Time (military)  |  | 1256           | 1306  | 1314   | 1320  |  |    |  |  |                               |
| pH (su)  |  | 6.58           | 4.97  | 4.97   | 5.02  |  |    |  |  |                               |
| Spec Conductivity (mS/cm)  |  | 0.072          | 0.073 | 0.057  | 0.051 |  |    |  |  |                               |
| Water Temperature (°C)   |  | 18.6           | 19.4  | 19.3   | 19.1  |  |    |  |  |                               |
| Turbidity (NTU)  |  | 4.8            | 499   | 472  | 489   |  |    |  |  |                               |
| Dissolved Oxygen (mg/L)  |  | 4.42           | 3.50  | 3.57   | 3.59  |  |    |  |  |                               |
| <b>Well Condition Information</b>  |  |                |       |  |       | <b>Additional Comments</b>                       |    |  |  |                               |
| -overall condition acceptable?   |  |                |       |  |       |  |    |  |  |                               |
| -well cap acceptable?  |  |                |       |  |       |  |    |  |  |                               |
| -manhole and cover acceptable?   |  |                |       |  |       | NO bolts; filled w/ water                        |    |  |  |                               |
| -well pad acceptable?  |  |                |       |  |       |  |    |  |  |                               |
| -area safe?  |  |                |       |  |       |  |    |  |  |                               |
| -other comments  |  |                |       |  |       |  |    |  |  |                               |

**Groundwater Sampling Log**

|   |  |                |  |  |  |  |    |  |  |
|---|--|----------------|--|--|--|--|----|--|--|
|  <b>TERRY Environmental Services</b><br><small>CLIENTS FIRST ALWAYS</small> |  |                |  | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |  |  |    |  |  |
|   |  |                |  | <b>Site Specific Information</b>                       |  |  |    | <b>Monitoring Well Information</b>   |  |
| Terry Project ID  |  | 2230.8L        |  | Well ID  |  | 12719 - MW-10                                    |    |  |  |
| SCDHEC Permit No.   |  | 12719          |  | Testing Parameters                                     |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |    |  |  |
| Project Name  |  | Hot Spot #3005 |  |  |  |  |    |  |  |
| Date  |  | 12/19/2019     |  |  |  |  |    |  |  |
| Field Personnel   |  | CM             |  | Well Diameter  |  | 2  | in | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1'          |  |
| General Weather   |  | Cloudy         |  | Screened Interval                                      |  | 17-27  | ft |  |  |
| Ambient Air Temperature   |  | 45°F           |  | Total Well Depth (nearest 0.1')                        |  | 27.2   | ft |  |  |
| <b>Quality Assurance</b>  |  |                |  | Depth to Groundwater (nearest 0.01')                   |  | 19.68  | ft |  |  |
| Meter   |  | Horiba U-52-2  |  | Length of Water Column                                 |  | 7.52   | ft |  |  |
| Serial Number   |  | VPTPGA3X       |  | or Serial Number                                       |  | V3KNWUE9   |    | 1 Casing Volume (0.163)  |  |
| Calibration Constant  |  | 4.00 su        |  | Calibration Constant                                   |  | 4.00 su  |    | 3 Casing Volumes (0.489)   |  |
| Calibration Constant  |  | 4.49 mS/cm     |  | Calibration Constant                                   |  | 4.49 mS/cm                                       |    | Total Volume Purged  |  |
| Calibration Constant  |  | 0.0 NTU        |  | Calibration Constant                                   |  | 0.0 NTU  |    | Purge Technique Utilized (bailer, pump)  |  |
| Last Calibration (time)   |  | 1300           |  | Last Verification (time)                               |  |  |    | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |
| Volume (gal)  |  | TNT            |  |  |  |  |    | 27.2   |  |
| Time (military)   |  | 1410           |  |  |  |  |    |  |  |
| pH (su)   |  | 4.45           |  |  |  |  |    |  |  |
| Spec Conductivity (mS/cm)   |  | 0.078          |  |  |  |  |    |  |  |
| Water Temperature (°C)  |  | 17.7           |  |  |  |  |    |  |  |
| Turbidity (NTU)   |  | 32.7           |  |  |  |  |    |  |  |
| Dissolved Oxygen (mg/L)   |  | 2.13           |  |  |  |  |    |  |  |
| <b>Well Condition Information</b>   |  |                |  | <b>Additional Comments</b>                             |  |  |    |  |  |
| -overall condition acceptable?  |  |                |  | Yes  |  |  |    |  |  |
| -well cap acceptable?   |  |                |  |  |  |  |    |  |  |
| -manhole and cover acceptable?  |  |                |  |  |  |  |    |  |  |
| -well pad acceptable?   |  |                |  |  |  |  |    |  |  |
| -area safe?   |  |                |  |  |  |  |    |  |  |
| -other comments   |  |                |  |  |  |  |    |  |  |

**Groundwater Sampling Log**

|   |               |                |                          |  |   |  |   |      |
|---|---------------|----------------|--------------------------|--|---|--|---|------|
|  <b>TERRY Environmental Services</b><br><small>CLIENTS FIRST ALWAYS</small> |               |                |                          | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |   |  |   |      |
| <b>Site Specific Information</b>  |               |                |                          | <b>Monitoring Well Information</b>                     |   |  |   |      |
| Terry Project ID  |               | 2230.8L        |                          | Well ID  |   | 12719 - MW-10R                                   |   |      |
| SCDHEC Permit No.   |               | 12719          |                          | Testing Parameters                                     |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |   |      |
| Project Name  |               | Hot Spot #3005 |                          |  |   |  |   |      |
| Date  |               | 12/9/2019      |                          |  |   |  |   |      |
| Field Personnel   |               | CM             |                          | Well Diameter  |   | 2  | in  |      |
| General Weather   |               | Cloudy         |                          | Screened Interval                                      |   | 22-32  | ft  |      |
| Ambient Air Temperature   |               | 45°F           |                          | Total Well Depth (nearest 0.1')                        |   | 32.0   | ft  |      |
| <b>Quality Assurance</b>  |               |                |                          | Depth to Groundwater (nearest 0.01')                   |   | 19.83  | ft  |      |
| Meter   | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2  | Length of Water Column                  |  | 12.17   | ft   |
| Serial Number   | VTPGA3X       |                | Serial Number            | V3KNWUE9   | 1 Casing Volume (0.163)                 |  | 1.98  | ft   |
| Calibration Constant  | 4.00 su       |                | Calibration Constant     | 4.00 su  | 3 Casing Volumes (0.489)                |  | 5.95  | gals |
| Calibration Constant  | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm   | Total Volume Purged                     |  | 6.00  | gals |
| Calibration Constant  | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU  | Purge Technique Utilized (bailer, pump) |  |   |      |
| Last Calibration (time)   | 1300          |                | Last Verification (time) |  | Well Yield                              |  | Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> | 32.0 |
| Volume (gal)  | INT           | 2              | 4                        | 6  |   |  |   |      |
| Time (military)   | 1544          | 1549           | 1555                     | 1605   |   |  |   |      |
| pH (su)   | 4.55          | 4.65           | 4.69                     | 4.59   |   |  |   |      |
| Spec Conductivity (mS/cm)   | 0.075         | 0.073          | 0.072                    | 0.076  |   |  |   |      |
| Water Temperature (°C)  | 18.5          | 19.1           | 19.2                     | 18.4   |   |  |   |      |
| Turbidity (NTU)   | 423           | 493            | 498                      | 499  |   |  |   |      |
| Dissolved Oxygen (mg/L)   | 1.97          | 2.03           | 2.04                     | 1.94   |   |  |   |      |
| <b>Well Condition Information</b>   |               |                |                          | <b>Additional Comments</b>                             |   |  |   |      |
| -overall condition acceptable?  |               |                |                          | Yes  |   |  |   |      |
| -well cap acceptable?   |               |                |                          |  |   |  |   |      |
| -manhole and cover acceptable?  |               |                |                          |  |   |  |   |      |
| -well pad acceptable?   |               |                |                          |  |   |  |   |      |
| -area safe?   |               |                |                          |  |   |  |   |      |
| -other comments   |               |                |                          |  |   |  |   |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |  |  |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|--|--|------|
| Terry Project ID               |               | 2230.8L        |                          | Well ID                              |  | 12719-MW-11                                      |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |  |  |      |
| Date                           |               | 12/9/2019      |                          |                                      |  |  |      |
| Field Personnel                |               | CM             |                          | Well Diameter                        |  | 2  | in   |
| General Weather                |               | Cloudy         |                          | Screened Interval                    |  | 18-28  | ft   |
| Ambient Air Temperature        |               | 45°F           |                          | Total Well Depth (nearest 0.1')      |  | 28.1   | ft   |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |  | 20.89  | ft   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column   | 7.21   | ft   |
| Serial Number                  | VPTGA3X       |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)  |  | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)   |  | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged  |  | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)  |  |      |
| Last Calibration (time)        | 1300          |                | Last Verification (time) |                                      | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |      |
| Volume (gal)                   | INT           |                |                          |                                      |  |  |      |
| Time (military)                | 1424          |                |                          |                                      |  |  |      |
| pH (su)                        | 4.63          |                |                          |                                      |  |  |      |
| Spec Conductivity (mS/cm)      | 0.041         |                |                          |                                      |  |  |      |
| Water Temperature (°C)         | 17.8          |                |                          |                                      |  |  |      |
| Turbidity (NTU)                | 21.9          |                |                          |                                      |  |  |      |
| Dissolved Oxygen (mg/L)        | 3.69          |                |                          |                                      |  |  |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |  |  |      |
| -overall condition acceptable? |               |                |                          |                                      |  |  |      |
| -well cap acceptable?          |               |                |                          |                                      |  |  |      |
| -manhole and cover acceptable? |               |                |                          |                                      |  |  |      |
| -well pad acceptable?          |               |                |                          |                                      |  |  |      |
| -area safe?                    |               |                |                          |                                      |  |  |      |
| -other comments                |               |                |                          |                                      |  |  |      |

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

28.1



**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                          |               | Monitoring Well Information   |  |   |  |
|--------------------------------|---------------|--------------------------|---------------|---|--|---|--|
| Terry Project ID               |               | 2230.8L                  |               | Well ID   |  | 12719 - MW-11R  |  |
| SCDHEC Permit No.              |               | 12719                    |               | Testing Parameters  |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol  |  |
| Project Name                   |               | Hot Spot #3005           |               |   |  |   |  |
| Date                           |               | APR 29 / 2019            |               |   |  |   |  |
| Field Personnel                |               | CM                       |               | Well Diameter   |  | 2 in  |  |
| General Weather                |               | Misty                    |               | Screened Interval   |  | 22-32 ft  |  |
| Ambient Air Temperature        |               | 45°F                     |               | Total Well Depth (nearest 0.1')   |  | 31.7 ft   |  |
| Quality Assurance              |               |                          |               | Depth to Groundwater (nearest 0.01')  |  | 70.80 ft  |  |
| Meter                          | Horiba U-52-2 | Meter                    | Horiba U-52-2 | Length of Water Column  |  | 10.90 ft  |  |
| Serial Number                  | VTPGA3X       | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)   |  | 1.78 ft   |  |
| Calibration Constant           | 4.00 su       | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)  |  | 5.33 gals   |  |
| Calibration Constant           | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged   |  | 6.00 gals   |  |
| Calibration Constant           | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailer, pump)   |  |   |  |
| Last Calibration (time)        | 1300          | Last Verification (time) |               | Well Yield  |  | Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High <input type="checkbox"/> |  |
| Volume (gal)                   | 2             | 4                        | 6             | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |  |   |  |
| Time (military)                | 1308          | 1315                     | 1321          |   |  |   |  |
| pH (su)                        | 4.63          | 4.64                     | 4.65          |   |  |   |  |
| Spec Conductivity (mS/cm)      | 0.073         | 0.067                    | 0.064         |   |  |   |  |
| Water Temperature (°C)         | 18.2          | 18.3                     | 18.5          |   |  |   |  |
| Turbidity (NTU)                | 2.3           | 4.9                      | 4.7           |   |  |   |  |
| Dissolved Oxygen (mg/L)        | 3.52          | 4.67                     | 4.17          |   |  |   |  |
| Well Condition Information     |               |                          |               | Additional Comments   |  |   |  |
| -overall condition acceptable? |               |                          |               | Yes   |  |   |  |
| -well cap acceptable?          |               |                          |               |   |  |   |  |
| -manhole and cover acceptable? |               |                          |               |   |  |   |  |
| -well pad acceptable?          |               |                          |               |   |  |   |  |
| -area safe?                    |               |                          |               |   |  |   |  |
| -other comments                |               |                          |               |   |  |   |  |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information                 |               |                          |               |   | Monitoring Well Information          |                              |  |                               |   |
|---|---------------|--------------------------|---------------|---|--------------------------------------|------------------------------|--|-------------------------------|---|
| Terry Project ID                          |               | 2230.8L                  |               |   | Well ID                              |                              | 12719 - MW-12                                    |                               |   |
| SCDHEC Permit No.                         |               | 12719                    |               |   | Testing Parameters                   |                              | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                               |   |
| Project Name                              |               | Hot Spot #3005           |               |   |                                      |                              |  |                               |   |
| Date                                      |               | 12 / 9 / 2019            |               |   |                                      |                              |  |                               |   |
| Field Personnel                           |               | CM                       |               |   | Well Diameter                        |                              | 2  | in                            | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| General Weather                           |               | Cloudy/misty             |               |   | Screened Interval                    |                              | 20-30  | ft                            |   |
| Ambient Air Temperature                   |               | 45 °F                    |               |   | Total Well Depth (nearest 0.1')      |                              | 30.3   | ft                            |   |
| Quality Assurance                         |               |                          |               |   | Depth to Groundwater (nearest 0.01') |                              | 19.37  | ft                            |   |
| Meter                                     | Horiba U-52-2 | or                       | Meter         | Horiba U-52-2                           | Length of Water Column               |                              | 10.63  | ft                            |   |
| Serial Number                             | VPTPGA3X      |                          | Serial Number | V3KNWUE9                                | 1 Casing Volume (0.163)              |                              | 1.73   | ft                            |   |
| Calibration Constant                      | 4.00 su       | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)                |                                      | 5.20                         | gals   |                               |   |
| Calibration Constant                      | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged                     |                                      | 5.25                         | gals   |                               |   |
| Calibration Constant                      | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailer, pump) |                                      |                              |  |                               |   |
| Last Calibration (time)                   | 1300          | Last Verification (time) |               | Well Yield                              |                                      | Low <input type="checkbox"/> | Medium <input checked="" type="checkbox"/>       | High <input type="checkbox"/> |   |
| Volume (gal)                              | 1.75          | 3.50                     | 5.25          |   |                                      |                              |  | 30.3                          |   |
| Time (military)                           | 1431          | 1440                     | 1447          |   |                                      |                              |  |                               |   |
| pH (su)                                   | 4.86          | 4.91                     | 4.92          |   |                                      |                              |  |                               |   |
| Spec Conductivity (mS/cm)                 | 0.080         | 0.122                    | 0.124         |   |                                      |                              |  |                               |   |
| Water Temperature (°C)                    | 17.3          | 17.4                     | 17.7          |   |                                      |                              |  |                               |   |
| Turbidity (NTU)                           | 26.6          | 499                      | 491           |   |                                      |                              |  |                               |   |
| Dissolved Oxygen (mg/L)                   | 5.37          | 5.74                     | 5.69          |   |                                      |                              |  |                               |   |
| Well Condition Information                |               |                          |               |   | Additional Comments                  |                              |  |                               |   |
| -overall condition acceptable? <u>Yes</u> |               |                          |               |   |                                      |                              |  |                               |   |
| -well cap acceptable?                     |               |                          |               |   |                                      |                              |  |                               |   |
| -manhole and cover acceptable?            |               |                          |               |   |                                      |                              |  |                               |   |
| -well pad acceptable?                     |               |                          |               |   |                                      |                              |  |                               |   |
| -area safe?                               |               |                          |               |   |                                      |                              |  |                               |   |
| -other comments                           |               |                          |               |   |                                      |                              |  |                               |   |

**Groundwater Sampling Log**




**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |      |                          |        |                          |      |                          |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|------|--------------------------|--------|--------------------------|------|--------------------------|------|
| Terry Project ID               |               | 2230.8L        |                          | Well ID                              |   | 12719 - MW-13                                    |      |                          |        |                          |      |                          |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |      |                          |        |                          |      |                          |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |      |                          |        |                          |      |                          |      |
| Date                           |               | 12/9/2019      |                          |                                      |   |  |      |                          |        |                          |      |                          |      |
| Field Personnel                |               | CM             |                          | Well Diameter                        |   | 2  | in   |                          |        |                          |      |                          |      |
| General Weather                |               | Cloudy         |                          | Screened Interval                    |   | 17-27  | ft   |                          |        |                          |      |                          |      |
| Ambient Air Temperature        |               | 45°F           |                          | Total Well Depth (nearest 0.1')      |   | 27.0   | ft   |                          |        |                          |      |                          |      |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   |  |      |                          |        |                          |      |                          |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |  | 6.48 | ft                       |        |                          |      |                          |      |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |  |      | ft                       |        |                          |      |                          |      |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |  |      | gals                     |        |                          |      |                          |      |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |  |      | gals                     |        |                          |      |                          |      |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |  |      |                          |        |                          |      |                          |      |
| Last Calibration (time)        | 1300          |                | Last Verification (time) |                                      | Well Yield                              |  | Low  | <input type="checkbox"/> | Medium | <input type="checkbox"/> | High | <input type="checkbox"/> | 27.0 |
| Volume (gal)                   | INT           |                |                          |                                      |   |  |      |                          |        |                          |      |                          |      |
| Time (military)                | 1346          |                |                          |                                      |   |  |      |                          |        |                          |      |                          |      |
| pH (su)                        | 4.00          |                |                          |                                      |   |  |      |                          |        |                          |      |                          |      |
| Spec Conductivity (mS/cm)      | 0.214         |                |                          |                                      |   |  |      |                          |        |                          |      |                          |      |
| Water Temperature (°C)         | 15.8          |                |                          |                                      |   |  |      |                          |        |                          |      |                          |      |
| Turbidity (NTU)                | 116           |                |                          |                                      |   |  |      |                          |        |                          |      |                          |      |
| Dissolved Oxygen (mg/L)        | 6.75          |                |                          |                                      |   |  |      |                          |        |                          |      |                          |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |      |                          |        |                          |      |                          |      |
| -overall condition acceptable? |               |                |                          |                                      |   |  |      |                          |        |                          |      |                          |      |
| -well cap acceptable?          |               |                |                          |                                      |   |  |      |                          |        |                          |      |                          |      |
| -manhole and cover acceptable? |               |                |                          | 1 bolt missing                       |   |  |      |                          |        |                          |      |                          |      |
| -well pad acceptable?          |               |                |                          |                                      |   |  |      |                          |        |                          |      |                          |      |
| -area safe?                    |               |                |                          |                                      |   |  |      |                          |        |                          |      |                          |      |
| -other comments                |               |                |                          |                                      |   |  |      |                          |        |                          |      |                          |      |

**Groundwater Sampling Log**

|   |               |                       |                          |  |   |  |    |
|---|---------------|-----------------------|--------------------------|--|---|--|----|
|  <b>TERRY Environmental Services</b><br><small>CLIENTS FIRST ALWAYS</small> |               |                       |                          | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605   |   |  |    |
| <b>Site Specific Information</b>  |               |                       |                          | <b>Monitoring Well Information</b>   |   |  |    |
| Terry Project ID  |               | 2230.8L               |                          | Well ID  |   | 12719 - <i>MW-14</i>                             |    |
| SCDHEC Permit No.   |               | 12719                 |                          | Testing Parameters   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |    |
| Project Name  |               | Hot Spot #3005        |                          |  |   |  |    |
| Date  |               | <i>12 / 10 / 2019</i> |                          | Well Diameter  |   | <i>2</i>   | in |
| Field Personnel   |               | <i>CM</i>             |                          | Screened Interval  |   | <i>21-31</i>                                     | ft |
| General Weather   |               | <i>Rainy</i>          |                          | Total Well Depth (nearest 0.1')  |   | <i>30.5</i>                                      | ft |
| Ambient Air Temperature   |               | <i>50°F</i>           |                          | Depth to Groundwater (nearest 0.01')   |   | <i>24.92</i>                                     | ft |
| <b>Quality Assurance</b>  |               |                       |                          | Length of Water Column <i>5.58</i> ft<br>1 Casing Volume (0.163) ft<br>3 Casing Volumes (0.489) gals<br>Total Volume Purged gals<br>Purge Technique Utilized (bailer, pump)<br>Well Yield Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   |  |    |
| Meter   | Horiba U-52-2 | or                    | Meter                    | Horiba U-52-2  | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |  |    |
| Serial Number   | VPTPGA3X      |                       | Serial Number            | V3KNWUE9   |   |  |    |
| Calibration Constant  | 4.00 su       |                       | Calibration Constant     | 4.00 su  |   |  |    |
| Calibration Constant  | 4.49 mS/cm    |                       | Calibration Constant     | 4.49 mS/cm   |   |  |    |
| Calibration Constant  | 0.0 NTU       |                       | Calibration Constant     | 0.0 NTU  |   |  |    |
| Last Calibration (time)   | <i>0800</i>   |                       | Last Verification (time) |  | <i>30.5</i>   |  |    |
| Volume (gal)  | <i>1.1</i>    |                       |                          |  |   |  |    |
| Time (military)   | <i>0826</i>   |                       |                          |  |   |  |    |
| pH (su)   | <i>3.90</i>   |                       |                          |  |   |  |    |
| Spec Conductivity (mS/cm)   | <i>0.240</i>  |                       |                          |  |   |  |    |
| Water Temperature (°C)  | <i>16.9</i>   |                       |                          |  |   |  |    |
| Turbidity (NTU)   | <i>1.81</i>   |                       |                          |  |   |  |    |
| Dissolved Oxygen (mg/L)   | <i>3.08</i>   |                       |                          |  |   |  |    |
| <b>Well Condition Information</b>   |               |                       |                          | <b>Additional Comments</b>   |   |  |    |
| -overall condition acceptable?  |               |                       |                          |  |   |  |    |
| -well cap acceptable?   |               |                       |                          |  |   |  |    |
| -manhole and cover acceptable?  |               |                       |                          | <i>one bolt is missing</i>   |   |  |    |
| -well pad acceptable?   |               |                       |                          |  |   |  |    |
| -area safe?   |               |                       |                          |  |   |  |    |
| -other comments   |               |                       |                          |  |   |  |    |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|------|
| Terry Project ID               |               | 2230.8L        |                          | Well ID                              |   | 12719 - MW-15  |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol   |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |      |
| Date                           |               | 12/10/2019     |                          |                                      |   |  |      |
| Field Personnel                |               | CM             |                          | Well Diameter                        |   | 2  | in   |
| General Weather                |               | Rainy          |                          | Screened Interval                    |   | 27-29-30-35  | ft   |
| Ambient Air Temperature        |               | 50.8           |                          | Total Well Depth (nearest 0.1')      |   | 35.4   | ft   |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 27.29  | ft   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  | 8.11   | ft   |
| Serial Number                  | VPTGA3X       |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |  | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |  | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |  | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |  |      |
| Last Calibration (time)        | 0800          |                | Last Verification (time) |                                      | Well Yield                              | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> | 35.4 |
| Volume (gal)                   | INT           |                |                          |                                      |   |  |      |
| Time (military)                | 0855          |                |                          |                                      |   |  |      |
| pH (su)                        | 4.83          |                |                          |                                      |   |  |      |
| Spec Conductivity (mS/cm)      | 2003          |                |                          |                                      |   |  |      |
| Water Temperature (°C)         | 18.2          |                |                          |                                      |   |  |      |
| Turbidity (NTU)                | 496           |                |                          |                                      |   |  |      |
| Dissolved Oxygen (mg/L)        | 3.30          |                |                          |                                      |   |  |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |      |
| -overall condition acceptable? |               |                |                          | Yes                                  |   |  |      |
| -well cap acceptable?          |               |                |                          |                                      |   |  |      |
| -manhole and cover acceptable? |               |                |                          |                                      |   |  |      |
| -well pad acceptable?          |               |                |                          |                                      |   |  |      |
| -area safe?                    |               |                |                          |                                      |   |  |      |
| -other comments                |               |                |                          |                                      |   |  |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |        |                          |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|--------|--------------------------|
| Terry Project ID               |               | 2230.8L        |                          | Well ID                              |   | 12719 - MW-16                                    |        |                          |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |        |                          |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |        |                          |
| Date                           |               | 12 / 11 / 2019 |                          |                                      |   |  |        |                          |
| Field Personnel                |               | CM             |                          | Well Diameter                        |   | 2  | in     |                          |
| General Weather                |               | Clear          |                          | Screened Interval                    |   | 28-38  | ft     |                          |
| Ambient Air Temperature        |               | 40°F           |                          | Total Well Depth (nearest 0.1')      |   | 37.7   | ft     |                          |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 29.25  | ft     |                          |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |  | 8.45   | ft                       |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |  |        | ft                       |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |  |        | gals                     |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |  |        | gals                     |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |  |        |                          |
| Last Calibration (time)        | 0845          |                | Last Verification (time) |                                      | Well Yield                              |  |        | 37.7                     |
|                                |               |                |                          |                                      | Low                                     | <input type="checkbox"/>                         | Medium | <input type="checkbox"/> |
|                                |               |                |                          |                                      | High                                    | <input type="checkbox"/>                         |        |                          |
| Volume (gal)                   | INT           |                |                          |                                      |   |  |        |                          |
| Time (military)                | 1205          |                |                          |                                      |   |  |        |                          |
| pH (su)                        | 4.91          |                |                          |                                      |   |  |        |                          |
| Spec Conductivity (mS/cm)      | 0.109         |                |                          |                                      |   |  |        |                          |
| Water Temperature (°C)         | 18.7          |                |                          |                                      |   |  |        |                          |
| Turbidity (NTU)                | 499           |                |                          |                                      |   |  |        |                          |
| Dissolved Oxygen (mg/L)        | 3.07          |                |                          |                                      |   |  |        |                          |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |        |                          |
| -overall condition acceptable? |               |                |                          | Yes                                  |   |  |        |                          |
| -well cap acceptable?          |               |                |                          |                                      |   |  |        |                          |
| -manhole and cover acceptable? |               |                |                          |                                      |   |  |        |                          |
| -well pad acceptable?          |               |                |                          |                                      |   |  |        |                          |
| -area safe?                    |               |                |                          |                                      |   |  |        |                          |
| -other comments                |               |                |                          |                                      |   |  |        |                          |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information                 |               |                  |                          | Monitoring Well Information          |  |  |             |             |
|---|---------------|------------------|--------------------------|--------------------------------------|--|--|-------------|-------------|
| Terry Project ID                          |               | 2230.8L          |                          | Well ID                              |  | 12719 - <u>MW-17</u>                             |             |             |
| SCDHEC Permit No.                         |               | 12719            |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |             |             |
| Project Name                              |               | Hot Spot #3005   |                          |                                      |  |  |             |             |
| Date                                      |               | <u>12/9/2019</u> |                          |                                      |  |  |             |             |
| Field Personnel                           |               | <u>CM</u>        |                          | Well Diameter                        |  | <u>2</u>   | in          |             |
| General Weather                           |               | <u>Cloudy</u>    |                          | Screened Interval                    |  | <u>20-30</u>                                     | ft          |             |
| Ambient Air Temperature                   |               | <u>45°F</u>      |                          | Total Well Depth (nearest 0.1')      |  | <u>30.4</u>                                      | ft          |             |
| Quality Assurance                         |               |                  |                          | Depth to Groundwater (nearest 0.01') |  | <u>25.13</u>                                     | ft          |             |
| Meter                                     | Horiba U-52-2 | or               | Meter                    | Horiba U-52-2                        | Length of Water Column   |  | <u>5.27</u> | ft          |
| Serial Number                             | VPTPGA3X      |                  | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)  |  |             | ft          |
| Calibration Constant                      | 4.00 su       |                  | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)   |  |             | gals        |
| Calibration Constant                      | 4.49 mS/cm    |                  | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged  |  |             | gals        |
| Calibration Constant                      | 0.0 NTU       |                  | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)  |  |             |             |
| Last Calibration (time)                   | <u>1300</u>   |                  | Last Verification (time) | <u>1700</u>                          | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |             | <u>30.4</u> |
| Volume (gal)                              | <u>JM</u>     |                  |                          |                                      |  |  |             |             |
| Time (military)                           | <u>1859</u>   |                  |                          |                                      |  |  |             |             |
| pH (su)                                   | <u>4.85</u>   |                  |                          |                                      |  |  |             |             |
| Spec Conductivity (mS/cm)                 | <u>0.052</u>  |                  |                          |                                      |  |  |             |             |
| Water Temperature (°C)                    | <u>16.4</u>   |                  |                          |                                      |  |  |             |             |
| Turbidity (NTU)                           | <u>162</u>    |                  |                          |                                      |  |  |             |             |
| Dissolved Oxygen (mg/L)                   | <u>5.35</u>   |                  |                          |                                      |  |  |             |             |
| Well Condition Information                |               |                  |                          | Additional Comments                  |  |  |             |             |
| -overall condition acceptable? <u>Yes</u> |               |                  |                          |                                      |  |  |             |             |
| -well cap acceptable?                     |               |                  |                          |                                      |  |  |             |             |
| -manhole and cover acceptable?            |               |                  |                          |                                      |  |  |             |             |
| -well pad acceptable?                     |               |                  |                          |                                      |  |  |             |             |
| -area safe?                               |               |                  |                          |                                      |  |  |             |             |
| -other comments                           |               |                  |                          |                                      |  |  |             |             |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |        |                          |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|--------|--------------------------|
| Terry Project ID               |               | 2230.8L        |                          | Well ID                              |   | 12719 - MW-18                                    |        |                          |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |        |                          |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |        |                          |
| Date                           |               | 12/9/2019      |                          |                                      |   |  |        |                          |
| Field Personnel                |               | CM             |                          | Well Diameter                        |   | 2  | in     |                          |
| General Weather                |               | Cloudy         |                          | Screened Interval                    |   | 20-30  | ft     |                          |
| Ambient Air Temperature        |               | 45°F           |                          | Total Well Depth (nearest 0.1')      |   | 30.0   | ft     |                          |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 23.44  | ft     |                          |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |  | 6.56   | ft                       |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |  |        | ft                       |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |  |        | gals                     |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |  |        | gals                     |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |  |        |                          |
| Last Calibration (time)        | 1300          |                | Last Verification (time) | 1700                                 | Well Yield                              |  |        | 30.0                     |
|                                |               |                |                          |                                      | Low                                     | <input type="checkbox"/>                         | Medium | <input type="checkbox"/> |
|                                |               |                |                          |                                      | High                                    | <input type="checkbox"/>                         |        |                          |
| Volume (gal)                   | TNT           |                |                          |                                      |   |  |        |                          |
| Time (military)                | 1910          |                |                          |                                      |   |  |        |                          |
| pH (su)                        | 5.20          |                |                          |                                      |   |  |        |                          |
| Spec Conductivity (mS/cm)      | 0.077         |                |                          |                                      |   |  |        |                          |
| Water Temperature (°C)         | 16.7          |                |                          |                                      |   |  |        |                          |
| Turbidity (NTU)                | 114           |                |                          |                                      |   |  |        |                          |
| Dissolved Oxygen (mg/L)        | 4.29          |                |                          |                                      |   |  |        |                          |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |        |                          |
| -overall condition acceptable? |               |                |                          | Yes                                  |   |  |        |                          |
| -well cap acceptable?          |               |                |                          |                                      |   |  |        |                          |
| -manhole and cover acceptable? |               |                |                          |                                      |   |  |        |                          |
| -well pad acceptable?          |               |                |                          |                                      |   |  |        |                          |
| -area safe?                    |               |                |                          |                                      |   |  |        |                          |
| -other comments                |               |                |                          |                                      |   |  |        |                          |



**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information          |               |                |                          | Monitoring Well Information          |   |  |                                 |
|------------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|---------------------------------|
| Terry Project ID                   |               | 2230.8L        |                          | Well ID                              |   | 12719 - MW-19                                    |                                 |
| SCDHEC Permit No.                  |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                                 |
| Project Name                       |               | Hot Spot #3005 |                          |                                      |   |  |                                 |
| Date                               |               | 12/10/2019     |                          |                                      |   |  |                                 |
| Field Personnel                    |               | CM             |                          | Well Diameter                        |   | 2 in   |                                 |
| General Weather                    |               | Rainy          |                          | Screened Interval                    |   | 20-30 ft   |                                 |
| Ambient Air Temperature            |               | 60°F           |                          | Total Well Depth (nearest 0.1')      |   | 30.4 ft  |                                 |
| Quality Assurance                  |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 25.02 ft   |                                 |
| Meter                              | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  | 5.38 ft  |                                 |
| Serial Number                      | VTPGA3X       |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 | ft   |                                 |
| Calibration Constant               | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                | gals   |                                 |
| Calibration Constant               | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     | gals   |                                 |
| Calibration Constant               | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |  |                                 |
| Last Calibration (time)            | 0800          |                | Last Verification (time) | 1200                                 | Well Yield                              | Low <input type="checkbox"/>                     | Medium <input type="checkbox"/> |
|                                    |               |                |                          |                                      |   | High <input type="checkbox"/>                    | 30.4                            |
| Volume (gal)                       | 1.11          |                |                          |                                      |   |  |                                 |
| Time (military)                    | 1505          |                |                          |                                      |   |  |                                 |
| pH (su)                            | 4.69          |                |                          |                                      |   |  |                                 |
| Spec Conductivity (mS/cm)          | 0.093         |                |                          |                                      |   |  |                                 |
| Water Temperature (°C)             | 17.5          |                |                          |                                      |   |  |                                 |
| Turbidity (NTU)                    | 2.65          |                |                          |                                      |   |  |                                 |
| Dissolved Oxygen (mg/L)            | 4.96          |                |                          |                                      |   |  |                                 |
| Well Condition Information         |               |                |                          | Additional Comments                  |   |  |                                 |
| -overall condition acceptable? Yes |               |                |                          |                                      |   |  |                                 |
| -well cap acceptable?              |               |                |                          |                                      |   |  |                                 |
| -manhole and cover acceptable?     |               |                |                          |                                      |   |  |                                 |
| -well pad acceptable?              |               |                |                          |                                      |   |  |                                 |
| -area safe?                        |               |                |                          |                                      |   |  |                                 |
| -other comments                    |               |                |                          |                                      |   |  |                                 |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |                                 |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|---------------------------------|
| Terry Project ID               |               | 2230.8L        |                          | Well ID                              |   | 12719 - MW-20                                    |                                 |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                                 |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |                                 |
| Date                           |               | 12/10/2019     |                          |                                      |   |  |                                 |
| Field Personnel                |               | CM             |                          | Well Diameter                        |   | 2  | in                              |
| General Weather                |               | Rainy          |                          | Screened Interval                    |   | <del>20-30</del>                                 | ft                              |
| Ambient Air Temperature        |               | 60°F           |                          | Total Well Depth (nearest 0.1')      |   | 30.6   | ft                              |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 25.49  | ft                              |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  | 5.11   | ft                              |
| Serial Number                  | VPTGA3X       |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |  | ft                              |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |  | gals                            |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |  | gals                            |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |  |                                 |
| Last Calibration (time)        | 0800          |                | Last Verification (time) | 1200                                 | Well Yield                              | Low <input type="checkbox"/>                     | Medium <input type="checkbox"/> |
|                                |               |                |                          |                                      |   | High <input type="checkbox"/>                    | 30.6                            |
| Volume (gal)                   | 1.11          |                |                          |                                      |   |  |                                 |
| Time (military)                | 1520          |                |                          |                                      |   |  |                                 |
| pH (su)                        | 4.75          |                |                          |                                      |   |  |                                 |
| Spec Conductivity (mS/cm)      | 0.099         |                |                          |                                      |   |  |                                 |
| Water Temperature (°C)         | 18.1          |                |                          |                                      |   |  |                                 |
| Turbidity (NTU)                | 471           |                |                          |                                      |   |  |                                 |
| Dissolved Oxygen (mg/L)        | 3.97          |                |                          |                                      |   |  |                                 |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |                                 |
| -overall condition acceptable? |               |                |                          | Yes                                  |   |  |                                 |
| -well cap acceptable?          |               |                |                          |                                      |   |  |                                 |
| -manhole and cover acceptable? |               |                |                          |                                      |   |  |                                 |
| -well pad acceptable?          |               |                |                          |                                      |   |  |                                 |
| -area safe?                    |               |                |                          |                                      |   |  |                                 |
| -other comments                |               |                |                          |                                      |   |  |                                 |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |        |                          |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|--------|--------------------------|
| Terry Project ID               |               | 2230.8L        |                          | Well ID                              |   | 12719 - MW-21                                    |        |                          |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |        |                          |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |        |                          |
| Date                           |               | 12/10/2019     |                          |                                      |   |  |        |                          |
| Field Personnel                |               | CM             |                          | Well Diameter                        |   | 2  | in     |                          |
| General Weather                |               | Rainy          |                          | Screened Interval                    |   | 20-30  | ft     |                          |
| Ambient Air Temperature        |               | 62°F           |                          | Total Well Depth (nearest 0.1')      |   | 29.8   | ft     |                          |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 24.81  | ft     |                          |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |  | 4.94   | ft                       |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |  |        | ft                       |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |  |        | gals                     |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |  |        | gals                     |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |  |        |                          |
| Last Calibration (time)        | 0600          |                | Last Verification (time) | 1700                                 | Well Yield                              |  |        | 29.8                     |
|                                |               |                |                          |                                      | Low                                     | <input type="checkbox"/>                         | Medium | <input type="checkbox"/> |
|                                |               |                |                          |                                      |   |  | High   | <input type="checkbox"/> |
| Volume (gal)                   | INT           |                |                          |                                      |   |  |        |                          |
| Time (military)                | 1532          |                |                          |                                      |   |  |        |                          |
| pH (su)                        | 4.58          |                |                          |                                      |   |  |        |                          |
| Spec Conductivity (mS/cm)      | 0.108         |                |                          |                                      |   |  |        |                          |
| Water Temperature (°C)         | 18.2          |                |                          |                                      |   |  |        |                          |
| Turbidity (NTU)                | 4.07          |                |                          |                                      |   |  |        |                          |
| Dissolved Oxygen (mg/L)        | 4.51          |                |                          |                                      |   |  |        |                          |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |        |                          |
| -overall condition acceptable? |               |                |                          | Yes                                  |   |  |        |                          |
| -well cap acceptable?          |               |                |                          |                                      |   |  |        |                          |
| -manhole and cover acceptable? |               |                |                          |                                      |   |  |        |                          |
| -well pad acceptable?          |               |                |                          |                                      |   |  |        |                          |
| -area safe?                    |               |                |                          |                                      |   |  |        |                          |
| -other comments                |               |                |                          |                                      |   |  |        |                          |

**Groundwater Sampling Log**




**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                          |               | Monitoring Well Information             |  |  |                                 |
|--------------------------------|---------------|--------------------------|---------------|---|--|--|---------------------------------|
| Terry Project ID               |               | 2230.8L                  |               | Well ID                                 |  | 12719 - <i>MU-22</i>                             |                                 |
| SCDHEC Permit No.              |               | 12719                    |               | Testing Parameters                      |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                                 |
| Project Name                   |               | Hot Spot #3005           |               |   |  |  |                                 |
| Date                           |               | <i>12/10</i> /2019       |               |   |  |  |                                 |
| Field Personnel                |               | <i>CM</i>                |               | Well Diameter                           |  | <i>2</i>   | in                              |
| General Weather                |               | <i>Rainy</i>             |               | Screened Interval                       |  | <i>25-35</i>                                     | ft                              |
| Ambient Air Temperature        |               | <i>55°F</i>              |               | Total Well Depth (nearest 0.1')         |  | <i>35.0</i>                                      | ft                              |
| Quality Assurance              |               |                          |               | Depth to Groundwater (nearest 0.01')    |  |  |                                 |
| Meter                          | Horiba U-52-2 | Meter                    | Horiba U-52-2 | Length of Water Column                  |  | <i>7.32</i>                                      | ft                              |
| Serial Number                  | VPTPGA3X      | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)                 |  |  | ft                              |
| Calibration Constant           | 4.00 su       | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)                |  |  | gals                            |
| Calibration Constant           | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged                     |  |  | gals                            |
| Calibration Constant           | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailer, pump) |  |  |                                 |
| Last Calibration (time)        | <i>0600</i>   | Last Verification (time) |               | Well Yield                              |  | Low <input type="checkbox"/>                     | Medium <input type="checkbox"/> |
|                                |               |                          |               |   |  | High <input type="checkbox"/>                    | <i>35.0</i>                     |
| Volume (gal)                   | <i>INT</i>    |                          |               |   |  |  |                                 |
| Time (military)                | <i>1103</i>   |                          |               |   |  |  |                                 |
| pH (su)                        | <i>5.13</i>   |                          |               |   |  |  |                                 |
| Spec Conductivity (mS/cm)      | <i>0.071</i>  |                          |               |   |  |  |                                 |
| Water Temperature (°C)         | <i>18.3</i>   |                          |               |   |  |  |                                 |
| Turbidity (NTU)                | <i>36.1</i>   |                          |               |   |  |  |                                 |
| Dissolved Oxygen (mg/L)        | <i>3.64</i>   |                          |               |   |  |  |                                 |
| Well Condition Information     |               |                          |               | Additional Comments                     |  |  |                                 |
| -overall condition acceptable? |               |                          |               | <i>Yes</i>                              |  |  |                                 |
| -well cap acceptable?          |               |                          |               |   |  |  |                                 |
| -manhole and cover acceptable? |               |                          |               |   |  |  |                                 |
| -well pad acceptable?          |               |                          |               |   |  |  |                                 |
| -area safe?                    |               |                          |               |   |  |  |                                 |
| -other comments                |               |                          |               |   |  |  |                                 |

**Groundwater Sampling Log**

|   |               |                   |                          |  |  |  |      |
|---|---------------|-------------------|--------------------------|--|--|--|------|
|  <b>TERRY Environmental Services</b><br><small>CLIENTS FIRST ALWAYS</small> |               |                   |                          | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |  |  |      |
| <b>Site Specific Information</b>  |               |                   |                          | <b>Monitoring Well Information</b>                     |  |  |      |
| Terry Project ID  |               | 2230.8L           |                          | Well ID  |  | 12719 - <u>M41-23</u>                            |      |
| SCDHEC Permit No.   |               | 12719             |                          | Testing Parameters                                     |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |      |
| Project Name  |               | Hot Spot #3005    |                          |  |  |  |      |
| Date  |               | <u>12/10/2019</u> |                          |  |  |  |      |
| Field Personnel   |               | <u>CM</u>         |                          | Well Diameter  |  | <u>2</u>   | in   |
| General Weather   |               | <u>Rainy</u>      |                          | Screened Interval                                      |  | <u>25-35</u>                                     | ft   |
| Ambient Air Temperature   |               | <u>55°F</u>       |                          | Total Well Depth (nearest 0.1')                        |  | <u>34.9</u>                                      | ft   |
| <b>Quality Assurance</b>  |               |                   |                          | Depth to Groundwater (nearest 0.01')                   |  | <u>27.00</u>                                     | ft   |
| Meter   | Horiba U-52-2 | or                | Meter                    | Horiba U-52-2  | Length of Water Column   | <u>7.90</u>                                      | ft   |
| Serial Number   | VPTPGA3X      |                   | Serial Number            | V3KNWUE9   | 1 Casing Volume (0.163)  |  | ft   |
| Calibration Constant  | 4.00 su       |                   | Calibration Constant     | 4.00 su  | 3 Casing Volumes (0.489)   |  | gals |
| Calibration Constant  | 4.49 mS/cm    |                   | Calibration Constant     | 4.49 mS/cm   | Total Volume Purged  |  | gals |
| Calibration Constant  | 0.0 NTU       |                   | Calibration Constant     | 0.0 NTU  | Purge Technique Utilized (bailer, pump)  |  |      |
| Last Calibration (time)   | <u>0600</u>   |                   | Last Verification (time) |  | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |      |
| Volume (gal)  | <u>ENT</u>    |                   |                          |  |  |  |      |
| Time (military)   | <u>1053</u>   |                   |                          |  |  |  |      |
| pH (su)   | <u>5.32</u>   |                   |                          |  |  |  |      |
| Spec Conductivity (mS/cm)   | <u>0.081</u>  |                   |                          |  |  |  |      |
| Water Temperature (°C)  | <u>17.7</u>   |                   |                          |  |  |  |      |
| Turbidity (NTU)   | <u>246</u>    |                   |                          |  |  |  |      |
| Dissolved Oxygen (mg/L)   | <u>3.55</u>   |                   |                          |  |  |  |      |
| <b>Well Condition Information</b>   |               |                   |                          | <b>Additional Comments</b>                             |  |  |      |
| -overall condition acceptable? <u>Yes</u>   |               |                   |                          |  |  |  |      |
| -well cap acceptable? _____   |               |                   |                          |  |  |  |      |
| -manhole and cover acceptable? _____  |               |                   |                          |  |  |  |      |
| -well pad acceptable? _____   |               |                   |                          |  |  |  |      |
| -area safe? _____   |               |                   |                          |  |  |  |      |
| -other comments _____   |               |                   |                          |  |  |  |      |

**Groundwater Sampling Log**




**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |  |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|--|------|
| Terry Project ID               |               | 2230.8L        |                          | Well ID                              |   | 12719 - MW-24                                    |  |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |  |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |  |      |
| Date                           |               | 12/10/2019     |                          |                                      |   |  |  |      |
| Field Personnel                |               | CM             |                          | Well Diameter                        |   | 2  | in   |      |
| General Weather                |               | Rainy          |                          | Screened Interval                    |   | 24-34  | ft   |      |
| Ambient Air Temperature        |               | 50°F           |                          | Total Well Depth (nearest 0.1')      |   | 34.0   | ft   |      |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   |  |  |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |  | 6.59   | ft   |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |  |  | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |  |  | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |  |  | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |  |  |      |
| Last Calibration (time)        | 08:00         |                | Last Verification (time) |                                      | Well Yield                              |  | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> | 34.0 |
| Volume (gal)                   | INT           |                |                          |                                      |   |  |  |      |
| Time (military)                | 0951          |                |                          |                                      |   |  |  |      |
| pH (su)                        | 5.84          |                |                          |                                      |   |  |  |      |
| Spec Conductivity (mS/cm)      | 0.103         |                |                          |                                      |   |  |  |      |
| Water Temperature (°C)         | 18.5          |                |                          |                                      |   |  |  |      |
| Turbidity (NTU)                | 143           |                |                          |                                      |   |  |  |      |
| Dissolved Oxygen (mg/L)        | 3.69          |                |                          |                                      |   |  |  |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |  |      |
| -overall condition acceptable? |               |                |                          | Yes                                  |   |  |  |      |
| -well cap acceptable?          |               |                |                          |                                      |   |  |  |      |
| -manhole and cover acceptable? |               |                |                          |                                      |   |  |  |      |
| -well pad acceptable?          |               |                |                          |                                      |   |  |  |      |
| -area safe?                    |               |                |                          |                                      |   |  |  |      |
| -other comments                |               |                |                          |                                      |   |  |  |      |

**Groundwater Sampling Log**

|   |               |                       |                          |  |   |  |                                 |   |             |
|---|---------------|-----------------------|--------------------------|--|---|--|---------------------------------|---|-------------|
|  <b>TERRY Environmental Services</b><br><small>CLIENTS FIRST ALWAYS</small> |               |                       |                          | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |   |  |                                 |   |             |
|   |               |                       |                          | <b>Site Specific Information</b>                       |   |  |                                 | <b>Monitoring Well Information</b>  |             |
| Terry Project ID  |               | 2230.8L               |                          | Well ID  |   | 12719 - <i>MW-25</i>                             |                                 |   |             |
| SCDHEC Permit No.   |               | 12719                 |                          | Testing Parameters                                     |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                                 |   |             |
| Project Name  |               | Hot Spot #3005        |                          |  |   |  |                                 |   |             |
| Date  |               | <i>12 / 10 / 2019</i> |                          |  |   |  |                                 |   |             |
| Field Personnel   |               | <i>CM</i>             |                          | Well Diameter  |   | <i>2</i>   | in                              | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |             |
| General Weather   |               | <i>Rainy</i>          |                          | Screened Interval                                      |   | <i>20-30</i>                                     | ft                              |   |             |
| Ambient Air Temperature   |               | <i>60°F</i>           |                          | Total Well Depth (nearest 0.1')                        |   | <i>30.1</i>                                      | ft                              |   |             |
| <b>Quality Assurance</b>  |               |                       |                          | Depth to Groundwater (nearest 0.01')                   |   | <i>24.32</i>                                     | ft                              |   |             |
| Meter   | Horiba U-52-2 | or                    | Meter                    | Horiba U-52-2  | Length of Water Column                  | <i>5.78</i>                                      | ft                              |   |             |
| Serial Number   | VPTPGA3X      |                       | Serial Number            | V3KNWUE9   | 1 Casing Volume (0.163)                 |  | ft                              |   |             |
| Calibration Constant  | 4.00 su       |                       | Calibration Constant     | 4.00 su  | 3 Casing Volumes (0.489)                |  | gals                            |   |             |
| Calibration Constant  | 4.49 mS/cm    |                       | Calibration Constant     | 4.49 mS/cm   | Total Volume Purged                     |  | gals                            |   |             |
| Calibration Constant  | 0.0 NTU       |                       | Calibration Constant     | 0.0 NTU  | Purge Technique Utilized (bailer, pump) |  |                                 |   |             |
| Last Calibration (time)   | <i>0600</i>   |                       | Last Verification (time) | <i>1200</i>  | Well Yield                              | Low <input type="checkbox"/>                     | Medium <input type="checkbox"/> | High <input type="checkbox"/>   | <i>30.1</i> |
| Volume (gal)  | <i>INT</i>    |                       |                          |  |   |  |                                 |   |             |
| Time (military)   | <i>1558</i>   |                       |                          |  |   |  |                                 |   |             |
| pH (su)   | <i>4.32</i>   |                       |                          |  |   |  |                                 |   |             |
| Spec Conductivity (mS/cm)   | <i>0.118</i>  |                       |                          |  |   |  |                                 |   |             |
| Water Temperature (°C)  | <i>17.7</i>   |                       |                          |  |   |  |                                 |   |             |
| Turbidity (NTU)   | <i>496</i>    |                       |                          |  |   |  |                                 |   |             |
| Dissolved Oxygen (mg/L)   | <i>5.25</i>   |                       |                          |  |   |  |                                 |   |             |
| <b>Well Condition Information</b>   |               |                       |                          |  | <b>Additional Comments</b>              |  |                                 |   |             |
| -overall condition acceptable? <i>Yes</i>   |               |                       |                          |  |   |  |                                 |   |             |
| -well cap acceptable?   |               |                       |                          |  |   |  |                                 |   |             |
| -manhole and cover acceptable?  |               |                       |                          |  |   |  |                                 |   |             |
| -well pad acceptable?   |               |                       |                          |  |   |  |                                 |   |             |
| -area safe?   |               |                       |                          |  |   |  |                                 |   |             |
| -other comments   |               |                       |                          |  |   |  |                                 |   |             |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information                          |               |                          |               | Monitoring Well Information                   |  |  |  |
|--|---------------|--------------------------|---------------|---|--|--|--|
| Terry Project ID                                   |               | 2230.8L                  |               | Well ID                                       |  | 12719 - RW-1                                     |  |
| SCDHEC Permit No.                                  |               | 12719                    |               | Testing Parameters                            |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |  |
| Project Name                                       |               | Hot Spot #3005           |               |   |  |  |  |
| Date   |               | 12/11/2019               |               |   |  |  |  |
| Field Personnel                                    |               | CM                       |               | Well Diameter                                 |  | 4  | in   |
| General Weather                                    |               | clear                    |               | Screened Interval                             |  | 28-30  | ft   |
| Ambient Air Temperature                            |               | 40°F                     |               | Total Well Depth (nearest 0.1')               |  | 30.7   | ft   |
| Quality Assurance                                  |               |                          |               | Depth to Groundwater (nearest 0.01')          |  |  |  |
| Meter  | Horiba U-52-2 | Meter                    | Horiba U-52-2 | Length of Water Column                        |  | 6.67   | ft   |
| Serial Number                                      | VTPGA3X       | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)                       |  |  | ft   |
| Calibration Constant                               | 4.00 su       | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)                      |  |  | gals   |
| Calibration Constant                               | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged                           |  |  | gals   |
| Calibration Constant                               | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailer, pump)       |  |  |  |
| Last Calibration (time)                            | 0845          | Last Verification (time) |               | Well Yield                                    |  | Low  | <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |
| Volume (gal)                                       |               |                          |               |   |  |  |  |
| Time (military)                                    |               |                          |               |   |  |  |  |
| pH (su)  |               |                          |               |   |  |  |  |
| Spec Conductivity (mS/cm)                          |               |                          |               |   |  |  |  |
| Water Temperature (°C)                             |               |                          |               |   |  |  |  |
| Turbidity (NTU)                                    |               |                          |               |   |  |  |  |
| Dissolved Oxygen (mg/L)                            |               |                          |               |   |  |  |  |
| Well Condition Information                         |               |                          |               | Additional Comments                           |  |  |  |
| -overall condition acceptable?                     |               |                          |               |   |  |  |  |
| -well cap acceptable?                              |               |                          |               |   |  |  |  |
| -manhole and cover acceptable? one bolt is missing |               |                          |               | 0.1 ft of product in well;<br>no sample taken |  |  |  |
| -well pad acceptable?                              |               |                          |               |   |  |  |  |
| -area safe?  |               |                          |               |   |  |  |  |
| -other comments                                    |               |                          |               |   |  |  |  |

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH. WRITE BELOW TO NEAREST 0.1'

30.7



**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |                                 |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|---------------------------------|
| Terry Project ID               |               | 2230.8L        |                          | Well ID                              |   | 12719 - RW-2                                     |                                 |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                                 |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |                                 |
| Date                           |               | 12/11/2019     |                          |                                      |   |  |                                 |
| Field Personnel                |               | CM             |                          | Well Diameter                        |   | 4  | in                              |
| General Weather                |               | Clear          |                          | Screened Interval                    |   | 20-30  | ft                              |
| Ambient Air Temperature        |               | 40°F           |                          | Total Well Depth (nearest 0.1')      |   | 30.1   | ft                              |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 24.22  | ft                              |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  | 5.88   | ft                              |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |  | ft                              |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |  | gals                            |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |  | gals                            |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |  |                                 |
| Last Calibration (time)        | 0845          |                | Last Verification (time) |                                      | Well Yield                              | Low <input type="checkbox"/>                     | Medium <input type="checkbox"/> |
|                                |               |                |                          |                                      |   | High <input type="checkbox"/>                    | 30.1                            |
| Volume (gal)                   | Env           |                |                          |                                      |   |  |                                 |
| Time (military)                | 1004          |                |                          |                                      |   |  |                                 |
| pH (su)                        | 4.58          |                |                          |                                      |   |  |                                 |
| Spec Conductivity (mS/cm)      | 0.203         |                |                          |                                      |   |  |                                 |
| Water Temperature (°C)         | 16.7          |                |                          |                                      |   |  |                                 |
| Turbidity (NTU)                | 95.7          |                |                          |                                      |   |  |                                 |
| Dissolved Oxygen (mg/L)        | 2.70          |                |                          |                                      |   |  |                                 |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |                                 |
| -overall condition acceptable? |               |                |                          | Yes                                  |   |  |                                 |
| -well cap acceptable?          |               |                |                          |                                      |   |  |                                 |
| -manhole and cover acceptable? |               |                |                          |                                      |   |  |                                 |
| -well pad acceptable?          |               |                |                          |                                      |   |  |                                 |
| -area safe?                    |               |                |                          |                                      |   |  |                                 |
| -other comments                |               |                |                          |                                      |   |  |                                 |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                          |               | Monitoring Well Information             |                         |  |                                 |
|--------------------------------|---------------|--------------------------|---------------|---|-------------------------|--|---------------------------------|
| Terry Project ID               |               | 2230.8L                  |               | Well ID                                 |                         | 12719 - RW-3                                     |                                 |
| SCDHEC Permit No.              |               | 12719                    |               | Testing Parameters                      |                         | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                                 |
| Project Name                   |               | Hot Spot #3005           |               |   |                         |  |                                 |
| Date                           |               | 12 / 11 / 2019           |               |   |                         |  |                                 |
| Field Personnel                |               | CM                       |               | Well Diameter                           |                         | 4  | in                              |
| General Weather                |               | Clear                    |               | Screened Interval                       |                         | 25-35  | ft                              |
| Ambient Air Temperature        |               | 40°F                     |               | Total Well Depth (nearest 0.1')         |                         | 35.1   | ft                              |
| Quality Assurance              |               |                          |               | Depth to Groundwater (nearest 0.01')    |                         |  |                                 |
| Meter                          | Horiba U-52-2 | or                       | Meter         | Horiba U-52-2                           | Length of Water Column  |  | ft                              |
| Serial Number                  | VPTPGA3X      |                          | Serial Number | V3KNWUE9                                | 1 Casing Volume (0.163) |  |                                 |
| Calibration Constant           | 4.00 su       | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)                |                         | gals   |                                 |
| Calibration Constant           | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged                     |                         | gals   |                                 |
| Calibration Constant           | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailer, pump) |                         |  |                                 |
| Last Calibration (time)        | 0845          | Last Verification (time) |               | Well Yield                              |                         | Low <input type="checkbox"/>                     | Medium <input type="checkbox"/> |
|                                |               |                          |               |   |                         | High <input type="checkbox"/>                    | 35.1                            |
| Volume (gal)                   | FWT           |                          |               |   |                         |  |                                 |
| Time (military)                | 1118          |                          |               |   |                         |  |                                 |
| pH (su)                        | 5.31          |                          |               |   |                         |  |                                 |
| Spec Conductivity (mS/cm)      | 0.166         |                          |               |   |                         |  |                                 |
| Water Temperature (°C)         | 17.6          |                          |               |   |                         |  |                                 |
| Turbidity (NTU)                | 1.71          |                          |               |   |                         |  |                                 |
| Dissolved Oxygen (mg/L)        | 2.62          |                          |               |   |                         |  |                                 |
| Well Condition Information     |               |                          |               | Additional Comments                     |                         |  |                                 |
| -overall condition acceptable? |               |                          |               | Duplicate taken @ 1120                  |                         |  |                                 |
| -well cap acceptable?          |               |                          |               |   |                         |  |                                 |
| -manhole and cover acceptable? |               |                          |               |   |                         |  |                                 |
| -well pad acceptable?          |               |                          |               |   |                         |  |                                 |
| -area safe?                    |               |                          |               |   |                         |  |                                 |
| -other comments                |               |                          |               |   |                         |  |                                 |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information               |               |                |                          |               | Monitoring Well Information             |       |  |                                 |   |
|---|---------------|----------------|--------------------------|---------------|---|-------|--|---------------------------------|---|
| Terry Project ID                        |               | 2230.8L        |                          |               | Well ID                                 |       | 12719 - MW-10                                    |                                 |   |
| SCDHEC Permit No.                       |               | 12719          |                          |               | Testing Parameters                      |       | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                                 |   |
| Project Name                            |               | Hot Spot #3005 |                          |               |   |       |  |                                 |   |
| Date                                    |               | 12/10/2019     |                          |               |   |       |  |                                 |   |
| Field Personnel                         |               | CM             |                          |               | Well Diameter                           |       | 2  | in                              | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| General Weather                         |               | Rainy          |                          |               | Screened Interval                       |       | 55-60  | ft                              |   |
| Ambient Air Temperature                 |               | 65°F           |                          |               | Total Well Depth (nearest 0.1')         |       | 54.5   | ft                              |   |
| Quality Assurance                       |               |                |                          |               | Depth to Groundwater (nearest 0.01')    |       | 24.68  | ft                              |   |
| Meter                                   | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2 | Length of Water Column                  |       | 29.82  | ft                              |   |
| Serial Number                           | VPTPGA3X      |                | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)                 |       | 4.86   | ft                              |   |
| Calibration Constant                    | 4.00 su       |                | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)                |       | 14.58  | gals                            |   |
| Calibration Constant                    | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged                     |       | 25   | gals                            |   |
| Calibration Constant                    | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailer, pump) |       |  |                                 |   |
| Last Calibration (time)                 | 0800          |                | Last Verification (time) | 1200          | Well Yield                              |       | Low <input type="checkbox"/>                     | Medium <input type="checkbox"/> | High <input checked="" type="checkbox"/>  |
| Volume (gal)                            | INT           | 5              | 10                       | 15            | 20                                      | 25    |  |                                 | 54.5  |
| Time (military)                         | 1354          | 1357           | 1359                     | 1401          | 1403                                    | 1405  |  |                                 |   |
| pH (su)                                 | 6.19          | 5.84           | 5.66                     | 5.57          | 5.55                                    | 5.57  |  |                                 |   |
| Spec Conductivity (mS/cm)               | 0.162         | 0.084          | 0.084                    | 0.073         | 0.073                                   | 0.072 |  |                                 |   |
| Water Temperature (°C)                  | 18.1          | 18.6           | 18.8                     | 18.9          | 18.9                                    | 19.0  |  |                                 |   |
| Turbidity (NTU)                         | 499           | 53.2           | 13.1                     | 13.2          | 16.3                                    | 12.7  |  |                                 |   |
| Dissolved Oxygen (mg/L)                 | 5.85          | 5.91           | 5.49                     | 5.35          | 5.44                                    | 4.75  |  |                                 |   |
| Well Condition Information              |               |                |                          |               | Additional Comments                     |       |  |                                 |   |
| -overall condition acceptable?          |               |                |                          |               |   |       |  |                                 |   |
| -well cap acceptable?                   |               |                |                          |               |   |       |  |                                 |   |
| -manhole and cover acceptable? NO Bolts |               |                |                          |               |   |       |  |                                 |   |
| -well pad acceptable?                   |               |                |                          |               |   |       |  |                                 |   |
| -area safe?                             |               |                |                          |               |   |       |  |                                 |   |
| -other comments                         |               |                |                          |               |   |       |  |                                 |   |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information                 |       |                |                          |               | Monitoring Well Information          |   |  |   |   |    |
|---|-------|----------------|--------------------------|---------------|--------------------------------------|---|--|---|---|----|
| Terry Project ID                          |       | 2230.8L        |                          |               | Well ID                              |   | 12719 - DW-2                                     |   |   |    |
| SCDHEC Permit No.                         |       | 12719          |                          |               | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |   |   |    |
| Project Name                              |       | Hot Spot #3005 |                          |               |                                      |   |  |   |   |    |
| Date                                      |       | 12/10/2019     |                          |               |                                      |   |  |   |   |    |
| Field Personnel                           |       | CM             |                          |               | Well Diameter                        |   | 2  | in  | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |    |
| General Weather                           |       | Rainy          |                          |               | Screened Interval                    |   | 55-60  | ft  |   |    |
| Ambient Air Temperature                   |       | 60°F           |                          |               | Total Well Depth (nearest 0.1')      |   | 60.0   | ft  |   |    |
| Quality Assurance                         |       |                |                          |               | Depth to Groundwater (nearest 0.01') |   | 29.67  | ft  |   |    |
| Meter                                     |       | Horiba U-52-2  | Meter                    |               | Horiba U-52-2                        | Length of Water Column                  |  | 30.33   |   | ft |
| Serial Number                             |       | VPTGA3X        | or                       | Serial Number |                                      | V3KNWUE9                                | 1 Casing Volume (0.163)                          |   | 4.94  | ft |
| Calibration Constant                      |       | 4.00 su        | Calibration Constant     |               | 4.00 su                              | 3 Casing Volumes (0.489)                |  | 14.83   | gals  |    |
| Calibration Constant                      |       | 4.49 mS/cm     | Calibration Constant     |               | 4.49 mS/cm                           | Total Volume Purged                     |  | 20  | gals  |    |
| Calibration Constant                      |       | 0.0 NTU        | Calibration Constant     |               | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |  | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input checked="" type="checkbox"/> |   |    |
| Last Calibration (time)                   |       | 0800           | Last Verification (time) |               | 1600                                 | 60.0                                    |  |   |   |    |
| Volume (gal)                              | INT   | 5              | 10                       | 15            | 20                                   |   |  |   |   |    |
| Time (military)                           | 1631  | 1634           | 1637                     | 1639          | 1642                                 |   |  |   |   |    |
| pH (su)                                   | 4.50  | 4.72           | 4.86                     | 4.96          | 4.96                                 |   |  |   |   |    |
| Spec Conductivity (mS/cm)                 | 0.124 | 0.082          | 0.075                    | 0.074         | 0.074                                |   |  |   |   |    |
| Water Temperature (°C)                    | 17.0  | 17.7           | 17.8                     | 18.0          | 18.0                                 |   |  |   |   |    |
| Turbidity (NTU)                           | 4.8   | 45.3           | 17.8                     | 18.6          | 18.7                                 |   |  |   |   |    |
| Dissolved Oxygen (mg/L)                   | 4.58  | 4.39           | 4.51                     | 4.45          | 4.50                                 |   |  |   |   |    |
| Well Condition Information                |       |                |                          |               | Additional Comments                  |   |  |   |   |    |
| -overall condition acceptable? <u>YES</u> |       |                |                          |               |                                      |   |  |   |   |    |
| -well cap acceptable? _____               |       |                |                          |               |                                      |   |  |   |   |    |
| -manhole and cover acceptable? _____      |       |                |                          |               |                                      |   |  |   |   |    |
| -well pad acceptable? _____               |       |                |                          |               |                                      |   |  |   |   |    |
| -area safe? _____                         |       |                |                          |               |                                      |   |  |   |   |    |
| -other comments _____                     |       |                |                          |               |                                      |   |  |   |   |    |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |  |  |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|--|--|
| Terry Project ID               |               | 2230.8L        |                          | Well ID                              |   | 12719 - DW-3                                     |  |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |  |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |  |  |
| Date                           |               | 12/10/2019     |                          |                                      |   |  |  |
| Field Personnel                |               | CM             |                          | Well Diameter                        |   | 2  | in   |
| General Weather                |               | Rainy          |                          | Screened Interval                    |   | 60-65  | ft   |
| Ambient Air Temperature        |               | 50°F           |                          | Total Well Depth (nearest 0.1')      |   | 64.9   | ft   |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 35.04  | ft   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  | 29.86  | ft   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 | 4.86   | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                | 14.6   | gals                                       |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     | 5.50   | gals                                       |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |  |  |
| Last Calibration (time)        | 0800          |                | Last Verification (time) |                                      | Well Yield                              | Low <input type="checkbox"/>                     | Medium <input checked="" type="checkbox"/> |
|                                |               |                |                          |                                      |   | High <input type="checkbox"/>                    | 64.9                                       |
| Volume (gal)                   | 5             | 5              | 10                       | 15                                   |   | 5.25   | 5.50                                       |
| Time (military)                | 0935          | 0938           |                          |                                      |   | 0944   | 1010                                       |
| pH (su)                        | 8.53          | 9.23           |                          |                                      | Dry after                               | 9.07   | 7.78                                       |
| Spec Conductivity (mS/cm)      | 0.372         | 0.393          |                          |                                      | 5.25 gal                                | 0.409  | 0.372                                      |
| Water Temperature (°C)         | 16.8          | 17.8           |                          |                                      |   | 18.1   | 17.8                                       |
| Turbidity (NTU)                | 53.0          | 225            |                          |                                      |   | 499  | 497  |
| Dissolved Oxygen (mg/L)        | 3.10          | 2.87           |                          |                                      |   | 2.44   | 1.44                                       |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |  |  |
| -overall condition acceptable? |               |                |                          | Yes                                  |   |  |  |
| -well cap acceptable?          |               |                |                          |                                      |   |  |  |
| -manhole and cover acceptable? |               |                |                          |                                      |   |  |  |
| -well pad acceptable?          |               |                |                          |                                      |   |  |  |
| -area safe?                    |               |                |                          |                                      |   |  |  |
| -other comments                |               |                |                          |                                      |   |  |  |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |                |    |                          | Monitoring Well Information          |  |                              |   |                               |
|--------------------------------|----------------|----|--------------------------|--------------------------------------|--|------------------------------|---|-------------------------------|
| Terry Project ID               | 2230.8L        |    |                          | Well ID                              | 12719- <u>SW-1</u>                               |                              |   |                               |
| SCDHEC Permit No.              | 12719          |    |                          | Testing Parameters                   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol |                              |   |                               |
| Project Name                   | Hot Spot #3005 |    |                          |                                      |  |                              |   |                               |
| Date                           | 12/11/2019     |    |                          |                                      |  |                              |   |                               |
| Field Personnel                | CM             |    |                          | Well Diameter                        |  | in                           | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |                               |
| General Weather                | Clear          |    |                          | Screened Interval                    |  | ft                           |   |                               |
| Ambient Air Temperature        | 40 F           |    |                          | Total Well Depth (nearest 0.1')      |  | ft                           |   |                               |
| Quality Assurance              |                |    |                          | Depth to Groundwater (nearest 0.01') |  | ft                           |   |                               |
| Meter                          | Horiba U-52-2  | or | Meter                    | Horiba U-52-2                        | Length of Water Column                           |                              |   | ft                            |
| Serial Number                  | VPTPGA3X       |    | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                          |                              | ft  |                               |
| Calibration Constant           | 4.00 su        |    | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                         |                              | gals  |                               |
| Calibration Constant           | 4.49 mS/cm     |    | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                              |                              | gals  |                               |
| Calibration Constant           | 0.0 NTU        |    | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)          |                              |   |                               |
| Last Calibration (time)        | 0845           |    | Last Verification (time) |                                      | Well Yield                                       | Low <input type="checkbox"/> | Medium <input type="checkbox"/>   | High <input type="checkbox"/> |
| Volume (gal)                   | INT            |    |                          |                                      |  |                              |   |                               |
| Time (military)                | 1240           |    |                          |                                      |  |                              |   |                               |
| pH (su)                        | 5.85           |    |                          |                                      |  |                              |   |                               |
| Spec Conductivity (mS/cm)      | 0.181          |    |                          |                                      |  |                              |   |                               |
| Water Temperature (°C)         | 13.2           |    |                          |                                      |  |                              |   |                               |
| Turbidity (NTU)                | 202            |    |                          |                                      |  |                              |   |                               |
| Dissolved Oxygen (mg/L)        | 3.81           |    |                          |                                      |  |                              |   |                               |
| Well Condition Information     |                |    |                          | Additional Comments                  |  |                              |   |                               |
| -overall condition acceptable? |                |    |                          |                                      |  |                              |   |                               |
| -well cap acceptable?          |                |    |                          |                                      |  |                              |   |                               |
| -manhole and cover acceptable? |                |    |                          |                                      |  |                              |   |                               |
| -well pad acceptable?          |                |    |                          |                                      |  |                              |   |                               |
| -area safe?                    |                |    |                          |                                      |  |                              |   |                               |
| -other comments                |                |    |                          |                                      |  |                              |   |                               |

6000



**HORIBA U-52-2 DAILY CALIBRATION DATA SHEET**

|  |   |                         |
|--|---|-------------------------|
| Serial Number:<br><u>J6RAKCDE/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | Date: <u>12 / 9 / 19</u><br><br>Time: <u>1300</u> | Inspector(s): <u>CM</u> |
|--|---|-------------------------|

|   |                            |                                  |
|---|----------------------------|----------------------------------|
| Solution Manufacturer: <u>Eastern Solutions</u> | Lot Number: <u>1712d79</u> | Expiration Date: <u>12-30-19</u> |
| <u>Solution Value</u>                           | <u>Instrument Reading</u>  | <u>Accuracy</u>                  |
| pH: 4.00  | <u>4.03</u>                | ± <u>0.03</u>                    |
| Conductivity: 4.49 mS/cm                        | <u>4.48</u> mS/cm          | ± <u>0.01</u> mS/cm              |
| Turbidity: 0.0 NTU                              | <u>0.0</u> NTU             | ± <u>Ø</u> NTU                   |

|  |                           |                 |
|--|---------------------------|-----------------|
| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
| NIST-Traceable Thermometer: <u>18.3</u> °C | <u>18.7</u> °C            | ± <u>0.4</u> °C |

**QAPP Acceptance Criteria**

|                            |  |
|----------------------------|--|
| <u>Field Parameter</u>     | <u>Accuracy</u>                            |
| Temperature _____          | ±1°C against an NIST-traceable thermometer |
| Specific Conductance _____ | 10% of each standard used                  |
| pH _____                   | ±0.2 pH units of stated buffer value       |
| Turbidity _____            | 10% of each standard used                  |

**Inspector's Maintenance Notes**

2230.8L OST #12719  
Hotspot # 3005  
Groundwater Sampling



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

|  |   |                         |
|--|---|-------------------------|
| Serial Number:<br><u>J6RAKC0E/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | Date: <u>12 / 9 / 19</u><br><br>Time: <u>1700</u> | Inspector(s): <u>CM</u> |
|--|---|-------------------------|

Solution Manufacturer: Eastern Solutions Lot Number: 1712d79 Expiration Date: 12-30-19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>     |
|--------------------------|---------------------------|---------------------|
| pH: 4.00                 | <u>3.98</u>               | ± <u>0.02</u>       |
| Conductivity: 4.49 mS/cm | <u>4.52</u> mS/cm         | ± <u>0.03</u> mS/cm |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± <u>Ø</u> NTU      |

|                                | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--------------------------------|-------------------------|---------------------------|-----------------|
| NIST-Traceable<br>Thermometer: | <u>14.7</u> °C          | <u>14.7</u> °C            | ± <u>Ø</u> °C   |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

2230.8L UST #12719  
Hotspot # 3005  
Groundwater Sampling





## HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

|  |   |                         |
|--|---|-------------------------|
| Serial Number:<br><b>J6RAKC0E/VPTPGA3X</b><br><b>T13E334F/V3KNWUE9</b> | Date: <u>12 / 9 / 19</u><br><br>Time: <u>1925</u> | Inspector(s): <u>CM</u> |
|--|---|-------------------------|

Solution Manufacturer: Eastern Solutions Lot Number: 1712d79 Expiration Date: 12-30-19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>     |
|--------------------------|---------------------------|---------------------|
| pH: 4.00                 | <u>4.00</u>               | ± $\emptyset$       |
| Conductivity: 4.49 mS/cm | <u>4.50</u> mS/cm         | ± <u>0.01</u> mS/cm |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± $\emptyset$ NTU   |

|                             | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
|-----------------------------|-------------------------|---------------------------|-----------------|
| NIST-Traceable Thermometer: | <u>12.4</u> °C          | <u>13.4</u> °C            | ± <u>1.0</u> °C |

### QAPP Acceptance Criteria

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

### Inspector's Maintenance Notes

2230.8L      UST # 12719  
Hotspot # 3005  
Groundwater Sampling



**HORIBA U-52-2 DAILY CALIBRATION DATA SHEET**

|  |  |                         |
|--|--|-------------------------|
| Serial Number:<br><u>J6RAKCDE/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | Date: <u>12 / 10 / 19</u><br><br>Time: <u>6800</u> | Inspector(s): <u>CM</u> |
|--|--|-------------------------|

Solution Manufacturer: Eastern Solutions Lot Number: 1712d79 Expiration Date: 12-30-19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>     |
|--------------------------|---------------------------|---------------------|
| pH: 4.00                 | <u>4.00</u>               | ± <u>∅</u>          |
| Conductivity: 4.49 mS/cm | <u>4.52</u> mS/cm         | ± <u>0.03</u> mS/cm |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± <u>∅</u> NTU      |

|                             | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
|-----------------------------|-------------------------|---------------------------|-----------------|
| NIST-Traceable Thermometer: | <u>12.4</u> °C          | <u>12.4</u> °C            | ± <u>∅</u> °C   |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

2230.8L VST #12719  
Hotspot # 3005  
Groundwater Sampling



## HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

|  |  |                         |
|--|--|-------------------------|
| Serial Number:<br><u>J6RAKC0E/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | Date: <u>12 / 10 / 19</u><br><br>Time: <u>1200</u> | Inspector(s): <u>CM</u> |
|--|--|-------------------------|

Solution Manufacturer: Eastern Solutions Lot Number: 1712d79 Expiration Date: 12-30-19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>     |
|--------------------------|---------------------------|---------------------|
| pH: 4.00                 | <u>3.98</u>               | ± <u>0.02</u>       |
| Conductivity: 4.49 mS/cm | <u>4.51</u> mS/cm         | ± <u>0.03</u> mS/cm |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± <u>∅</u> NTU      |

|                                | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--------------------------------|-------------------------|---------------------------|-----------------|
| NIST-Traceable<br>Thermometer: | <u>14.0</u> °C          | <u>15.0</u> °C            | ± <u>1.0</u> °C |

### QAPP Acceptance Criteria

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

### Inspector's Maintenance Notes

2230.8L UST #1271a

Hotspot # 3005

Groundwater Sampling



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

|  |  |                         |
|--|--|-------------------------|
| Serial Number:<br><u>J6RAKC0E/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | Date: <u>12 / 10 / 19</u><br><br>Time: <u>1600</u> | Inspector(s): <u>CM</u> |
|--|--|-------------------------|

Solution Manufacturer: Eastern Solutions Lot Number: 1712d79 Expiration Date: 12-30-19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>   |
|--------------------------|---------------------------|-------------------|
| pH: 4.00                 | <u>4.00</u>               | ± $\emptyset$     |
| Conductivity: 4.49 mS/cm | <u>4.51</u> mS/cm         | ± 0.02 mS/cm      |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | ± $\emptyset$ NTU |

|                             | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
|-----------------------------|-------------------------|---------------------------|-----------------|
| NIST-Traceable Thermometer: | <u>15.1</u> °C          | <u>15.0</u> °C            | ± 0.1 °C        |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

2230.8L VST # 3005  
Hotspot #3005  
Groundwater Sampling



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

|  |  |                         |
|--|--|-------------------------|
| Serial Number:<br><u>J6RAKC0E/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | Date: <u>12 / 10 / 19</u><br><br>Time: <u>1730</u> | Inspector(s): <u>CM</u> |
|--|--|-------------------------|

Solution Manufacturer: Eastern Solutions Lot Number: 1712d79 Expiration Date: 12-30-19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u> |
|--------------------------|---------------------------|-----------------|
| pH: 4.00                 | <u>3.99</u>               | ± 0.1           |
| Conductivity: 4.49 mS/cm | <u>4.50</u> mS/cm         | ± 0.01 mS/cm    |
| Turbidity: 0.0 NTU       | <u>2.03</u> NTU           | ± 2.3 NTU       |

|                             | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
|-----------------------------|-------------------------|---------------------------|-----------------|
| NIST-Traceable Thermometer: | <u>13.5</u> °C          | <u>13.2</u> °C            | ± 0.3 °C        |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

**Inspector's Maintenance Notes**

2230.8L UST#12719  
Hotspot # 3005  
Groundwater Sampling



**HORIBA U-52-2 DAILY CALIBRATION DATA SHEET**

|  |  |                         |
|--|--|-------------------------|
| Serial Number:<br><u>J6RAKCDE/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | Date: <u>12 / 11 / 19</u><br><br>Time: <u>0845</u> | Inspector(s): <u>CM</u> |
|--|--|-------------------------|

Solution Manufacturer: Eastern Solutions Lot Number: 1712d79 Expiration Date: 12-30-19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>     |
|--------------------------|---------------------------|---------------------|
| pH: 4.00                 | <u>3.99</u>               | $\pm 0.01$          |
| Conductivity: 4.49 mS/cm | <u>4.52</u> mS/cm         | $\pm 0.03$ mS/cm    |
| Turbidity: 0.0 NTU       | <u>0.0</u> NTU            | $\pm \emptyset$ NTU |

|                             | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
|-----------------------------|-------------------------|---------------------------|-----------------|
| NIST-Traceable Thermometer: | <u>7.5</u> °C           | <u>7.4</u> °C             | $\pm 0.1$ °C    |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u> | <u>Accuracy</u>   |
|------------------------|---|
| Temperature            | $\pm 1^\circ\text{C}$ against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                                   |
| pH                     | $\pm 0.2$ pH units of stated buffer value                   |
| Turbidity              | 10% of each standard used                                   |

**Inspector's Maintenance Notes**

2230.8L UST # 12719

Hotspot # 3005

Groundwater Sampling

---



---



---



---



## HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

|  |  |                         |
|--|--|-------------------------|
| Serial Number:<br><u>J6RAKC0E/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | Date: <u>12 / 11 / 19</u><br><br>Time: <u>1245</u> | Inspector(s): <u>CM</u> |
|--|--|-------------------------|

Solution Manufacturer: Eastern Solutions Lot Number: 1712d79 Expiration Date: 12-30-19

| <u>Solution Value</u>    | <u>Instrument Reading</u> | <u>Accuracy</u>     |
|--------------------------|---------------------------|---------------------|
| pH: 4.00                 | <u>4.00</u>               | ± <u>Ø</u>          |
| Conductivity: 4.49 mS/cm | <u>4.53</u> mS/cm         | ± <u>0.04</u> mS/cm |
| Turbidity: 0.0 NTU       | <u>0.1</u> NTU            | ± <u>0.1</u> NTU    |

|                             | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
|-----------------------------|-------------------------|---------------------------|-----------------|
| NIST-Traceable Thermometer: | <u>13.2</u> °C          | <u>12.2</u> °C            | ± <u>1.0</u> °C |

### QAPP Acceptance Criteria

| <u>Field Parameter</u> | <u>Accuracy</u>                            |
|------------------------|--|
| Temperature            | ±1°C against an NIST-traceable thermometer |
| Specific Conductance   | 10% of each standard used                  |
| pH                     | ±0.2 pH units of stated buffer value       |
| Turbidity              | 10% of each standard used                  |

### Inspector's Maintenance Notes

2230.8L UST#12719

Hotspot # 3005

Groundwater Sampling

# SHEALY ENVIRONMENTAL SERVICES, INC.

---

## Report of Analysis

### Terry Environmental Services, Inc.

222 Varnfield Drive  
Suite F  
Summerville, SC 29483  
Attention: Kelly Cone

Project Name: Hot Spot #3005

Project Number: 2230.8L

Lot Number: **UL11083**

Date Completed: 12/27/2019

Revision Date: 01/02/2020



01/02/2020 1:14 PM

Approved and released by:  
Project Manager: Kelly M. Nance



The electronic signature above is the equivalent of a handwritten signature.  
This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

Shealy Environmental Services, Inc.  
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 [www.shealylab.com](http://www.shealylab.com)



# SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

## Case Narrative Terry Environmental Services, Inc. Lot Number: UL11083

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

This report supersedes and replaces any prior reports issued under this lot number. The sample ID for sample -034 was updated to match the chain of custody.

### Volatiles

The matrix spike/matrix spike duplicate (MS/MSD) associated with samples -007, -034, and -037 had tert-butyl formate (TBF) recovered outside of the acceptance limits. Additionally, the RPD exceeded the acceptance limit in the MS/MSD associated with sample -007. The laboratory control sample (LCS) were recovered within the required acceptance limits; therefore, this likely demonstrates a matrix effect.

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Sample Summary Terry Environmental Services, Inc.

Lot Number: UL11083

| Sample Number | Sample ID            | Matrix  | Date Sampled    | Date Received |
|---------------|----------------------|---------|-----------------|---------------|
| 001           | UST#12719 FB-1       | Aqueous | 12/09/2019 1315 | 12/11/2019    |
| 002           | UST#12719 MW-13      | Aqueous | 12/09/2019 1346 | 12/11/2019    |
| 003           | UST#12719 MW-10      | Aqueous | 12/09/2019 1410 | 12/11/2019    |
| 004           | UST#12719 MW-11      | Aqueous | 12/09/2019 1424 | 12/11/2019    |
| 005           | UST#12719 MW-12      | Aqueous | 12/09/2019 1500 | 12/11/2019    |
| 006           | UST#12719 MW-11R     | Aqueous | 12/09/2019 1532 | 12/11/2019    |
| 007           | UST#12719 MW-10R     | Aqueous | 12/09/2019 1605 | 12/11/2019    |
| 008           | UST#12719 MW-8R      | Aqueous | 12/09/2019 1647 | 12/11/2019    |
| 009           | UST#12719 MW-7       | Aqueous | 12/09/2019 1828 | 12/11/2019    |
| 010           | UST#12719 MW-17      | Aqueous | 12/09/2019 1859 | 12/11/2019    |
| 011           | UST#12719 MW-18      | Aqueous | 12/09/2019 1910 | 12/11/2019    |
| 012           | UST#12719 FB-2       | Aqueous | 12/10/2019 0815 | 12/11/2019    |
| 013           | UST#12719 MW-14      | Aqueous | 12/10/2019 0826 | 12/11/2019    |
| 014           | UST#12719 MW-15      | Aqueous | 12/10/2019 0855 | 12/11/2019    |
| 015           | UST#12719 MW-24      | Aqueous | 12/10/2019 0951 | 12/11/2019    |
| 016           | UST#12719 DW-3       | Aqueous | 12/10/2019 1010 | 12/11/2019    |
| 017           | UST#12719 MW-23      | Aqueous | 12/10/2019 1053 | 12/11/2019    |
| 018           | UST#12719 MW-22      | Aqueous | 12/10/2019 1103 | 12/11/2019    |
| 019           | UST#12719 MW-4       | Aqueous | 12/10/2019 1156 | 12/11/2019    |
| 020           | UST#12719 MW-9       | Aqueous | 12/10/2019 1320 | 12/11/2019    |
| 021           | UST#12719 MW-1D      | Aqueous | 12/10/2019 1405 | 12/11/2019    |
| 022           | UST#12719 MW-19      | Aqueous | 12/10/2019 1505 | 12/11/2019    |
| 023           | UST#12719 MW-20      | Aqueous | 12/10/2019 1520 | 12/11/2019    |
| 024           | UST#12719 MW-21      | Aqueous | 12/10/2019 1532 | 12/11/2019    |
| 025           | UST#12719 MW-25      | Aqueous | 12/10/2019 1558 | 12/11/2019    |
| 026           | UST#12719 DW-2       | Aqueous | 12/10/2019 1642 | 12/11/2019    |
| 027           | UST#12719 MW-2R      | Aqueous | 12/10/2019 1723 | 12/11/2019    |
| 028           | UST#12719 FB-3       | Aqueous | 12/11/2019 0855 | 12/11/2019    |
| 029           | UST#12719 MW-6       | Aqueous | 12/11/2019 0945 | 12/11/2019    |
| 030           | UST#12719 RW-2       | Aqueous | 12/11/2019 1004 | 12/11/2019    |
| 031           | UST#12719 MW-1R      | Aqueous | 12/11/2019 1040 | 12/11/2019    |
| 032           | UST#12719 MW-3R      | Aqueous | 12/11/2019 1105 | 12/11/2019    |
| 033           | UST#12719 RW-3       | Aqueous | 12/11/2019 1118 | 12/11/2019    |
| 034           | UST#12719 RW-3 Dup   | Aqueous | 12/11/2019 1120 | 12/11/2019    |
| 035           | UST#12719 MW-5       | Aqueous | 12/11/2019 1145 | 12/11/2019    |
| 036           | UST#12719 MW-16      | Aqueous | 12/11/2019 1205 | 12/11/2019    |
| 037           | UST#12719 MW-16 Dup  | Aqueous | 12/11/2019 1207 | 12/11/2019    |
| 038           | UST#12719 SW-1       | Aqueous | 12/11/2019 1240 | 12/11/2019    |
| 039           | UST#12719 Trip Blank | Aqueous | 12/09/2019      | 12/11/2019    |

(39 samples)

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Detection Summary Terry Environmental Services, Inc. Lot Number: UL11083

| Sample ID | Sample ID       | Matrix  | Parameter                   | Method | Result | Q | Units | Page |
|-----------|-----------------|---------|-----------------------------|--------|--------|---|-------|------|
| 009       | UST#12719 MW-7  | Aqueous | Ethylbenzene                | 8260B  | 2.0    |   | ug/L  | 15   |
| 009       | UST#12719 MW-7  | Aqueous | Naphthalene                 | 8260B  | 1.8    |   | ug/L  | 15   |
| 009       | UST#12719 MW-7  | Aqueous | Xylenes (total)             | 8260B  | 12     |   | ug/L  | 15   |
| 016       | UST#12719 DW-3  | Aqueous | Naphthalene                 | 8260B  | 0.46   | J | ug/L  | 22   |
| 016       | UST#12719 DW-3  | Aqueous | Toluene                     | 8260B  | 1.6    |   | ug/L  | 22   |
| 016       | UST#12719 DW-3  | Aqueous | Xylenes (total)             | 8260B  | 1.4    |   | ug/L  | 22   |
| 023       | UST#12719 MW-20 | Aqueous | Methyl tertiary butyl ether | 8260B  | 0.97   | J | ug/L  | 29   |
| 024       | UST#12719 MW-21 | Aqueous | Methyl tertiary butyl ether | 8260B  | 2.8    |   | ug/L  | 30   |
| 025       | UST#12719 MW-25 | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 40     |   | ug/L  | 31   |
| 025       | UST#12719 MW-25 | Aqueous | tert-Amyl methyl ether      | 8260B  | 1.5    | J | ug/L  | 31   |
| 025       | UST#12719 MW-25 | Aqueous | Benzene                     | 8260B  | 3.7    |   | ug/L  | 31   |
| 025       | UST#12719 MW-25 | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 1.8    |   | ug/L  | 31   |
| 025       | UST#12719 MW-25 | Aqueous | Methyl tertiary butyl ether | 8260B  | 21     |   | ug/L  | 31   |
| 025       | UST#12719 MW-25 | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 8.2    | J | ug/L  | 31   |
| 025       | UST#12719 MW-25 | Aqueous | Xylenes (total)             | 8260B  | 10     |   | ug/L  | 31   |
| 026       | UST#12719 DW-2  | Aqueous | Methyl tertiary butyl ether | 8260B  | 0.55   | J | ug/L  | 32   |
| 026       | UST#12719 DW-2  | Aqueous | Toluene                     | 8260B  | 0.42   | J | ug/L  | 32   |
| 027       | UST#12719 MW-2R | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 10     | J | ug/L  | 33   |
| 027       | UST#12719 MW-2R | Aqueous | Benzene                     | 8260B  | 4.2    |   | ug/L  | 33   |
| 027       | UST#12719 MW-2R | Aqueous | Ethylbenzene                | 8260B  | 1.9    |   | ug/L  | 33   |
| 027       | UST#12719 MW-2R | Aqueous | Methyl tertiary butyl ether | 8260B  | 0.73   | J | ug/L  | 33   |
| 027       | UST#12719 MW-2R | Aqueous | Naphthalene                 | 8260B  | 1.8    |   | ug/L  | 33   |
| 027       | UST#12719 MW-2R | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 9.3    | J | ug/L  | 33   |
| 027       | UST#12719 MW-2R | Aqueous | Xylenes (total)             | 8260B  | 7.6    |   | ug/L  | 33   |
| 029       | UST#12719 MW-6  | Aqueous | Benzene                     | 8260B  | 26     |   | ug/L  | 35   |
| 029       | UST#12719 MW-6  | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 0.78   | J | ug/L  | 35   |
| 029       | UST#12719 MW-6  | Aqueous | Ethylbenzene                | 8260B  | 0.82   | J | ug/L  | 35   |
| 029       | UST#12719 MW-6  | Aqueous | Methyl tertiary butyl ether | 8260B  | 3.3    |   | ug/L  | 35   |
| 029       | UST#12719 MW-6  | Aqueous | Naphthalene                 | 8260B  | 18     |   | ug/L  | 35   |
| 029       | UST#12719 MW-6  | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 22     |   | ug/L  | 35   |
| 029       | UST#12719 MW-6  | Aqueous | Xylenes (total)             | 8260B  | 39     |   | ug/L  | 35   |
| 030       | UST#12719 RW-2  | Aqueous | Benzene                     | 8260B  | 15     |   | ug/L  | 36   |
| 030       | UST#12719 RW-2  | Aqueous | Ethylbenzene                | 8260B  | 13     |   | ug/L  | 36   |
| 030       | UST#12719 RW-2  | Aqueous | Naphthalene                 | 8260B  | 68     |   | ug/L  | 36   |
| 030       | UST#12719 RW-2  | Aqueous | Toluene                     | 8260B  | 0.69   | J | ug/L  | 36   |
| 030       | UST#12719 RW-2  | Aqueous | Xylenes (total)             | 8260B  | 150    |   | ug/L  | 36   |
| 031       | UST#12719 MW-1R | Aqueous | Benzene                     | 8260B  | 46     |   | ug/L  | 37   |
| 031       | UST#12719 MW-1R | Aqueous | Ethylbenzene                | 8260B  | 74     |   | ug/L  | 37   |
| 031       | UST#12719 MW-1R | Aqueous | Naphthalene                 | 8260B  | 110    |   | ug/L  | 37   |
| 031       | UST#12719 MW-1R | Aqueous | Toluene                     | 8260B  | 3.3    |   | ug/L  | 37   |
| 031       | UST#12719 MW-1R | Aqueous | Xylenes (total)             | 8260B  | 240    |   | ug/L  | 37   |
| 032       | UST#12719 MW-3R | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 1000   |   | ug/L  | 38   |
| 032       | UST#12719 MW-3R | Aqueous | tert-Amyl methyl ether      | 8260B  | 31     | J | ug/L  | 38   |
| 032       | UST#12719 MW-3R | Aqueous | Benzene                     | 8260B  | 1100   |   | ug/L  | 38   |
| 032       | UST#12719 MW-3R | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 330    |   | ug/L  | 38   |

# Detection Summary (Continued)

Lot Number: UL11083

| Sample | Sample ID           | Matrix  | Parameter                   | Method | Result | Q | Units | Page |
|--------|---------------------|---------|-----------------------------|--------|--------|---|-------|------|
| 032    | UST#12719 MW-3R     | Aqueous | Ethylbenzene                | 8260B  | 47     |   | ug/L  | 38   |
| 032    | UST#12719 MW-3R     | Aqueous | Methyl tertiary butyl ether | 8260B  | 83     |   | ug/L  | 38   |
| 032    | UST#12719 MW-3R     | Aqueous | Naphthalene                 | 8260B  | 95     |   | ug/L  | 38   |
| 032    | UST#12719 MW-3R     | Aqueous | tert-butyl alcohol (TBA)    | 8260B  | 270    |   | ug/L  | 38   |
| 032    | UST#12719 MW-3R     | Aqueous | Xylenes (total)             | 8260B  | 12     |   | ug/L  | 38   |
| 033    | UST#12719 RW-3      | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 2000   |   | ug/L  | 39   |
| 033    | UST#12719 RW-3      | Aqueous | Benzene                     | 8260B  | 3000   |   | ug/L  | 39   |
| 033    | UST#12719 RW-3      | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 190    |   | ug/L  | 39   |
| 033    | UST#12719 RW-3      | Aqueous | Ethylbenzene                | 8260B  | 79     |   | ug/L  | 39   |
| 033    | UST#12719 RW-3      | Aqueous | Methyl tertiary butyl ether | 8260B  | 130    |   | ug/L  | 39   |
| 033    | UST#12719 RW-3      | Aqueous | Naphthalene                 | 8260B  | 44     | J | ug/L  | 39   |
| 033    | UST#12719 RW-3      | Aqueous | Xylenes (total)             | 8260B  | 1100   |   | ug/L  | 39   |
| 034    | UST#12719 RW-3 Dup  | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 2000   |   | ug/L  | 40   |
| 034    | UST#12719 RW-3 Dup  | Aqueous | Benzene                     | 8260B  | 2900   |   | ug/L  | 40   |
| 034    | UST#12719 RW-3 Dup  | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 190    |   | ug/L  | 40   |
| 034    | UST#12719 RW-3 Dup  | Aqueous | Ethylbenzene                | 8260B  | 82     |   | ug/L  | 40   |
| 034    | UST#12719 RW-3 Dup  | Aqueous | Methyl tertiary butyl ether | 8260B  | 140    |   | ug/L  | 40   |
| 034    | UST#12719 RW-3 Dup  | Aqueous | Naphthalene                 | 8260B  | 41     | J | ug/L  | 40   |
| 034    | UST#12719 RW-3 Dup  | Aqueous | Xylenes (total)             | 8260B  | 1000   |   | ug/L  | 40   |
| 035    | UST#12719 MW-5      | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 260    |   | ug/L  | 41   |
| 035    | UST#12719 MW-5      | Aqueous | Benzene                     | 8260B  | 1300   |   | ug/L  | 41   |
| 035    | UST#12719 MW-5      | Aqueous | Ethylbenzene                | 8260B  | 89     |   | ug/L  | 41   |
| 035    | UST#12719 MW-5      | Aqueous | Methyl tertiary butyl ether | 8260B  | 20     |   | ug/L  | 41   |
| 035    | UST#12719 MW-5      | Aqueous | Toluene                     | 8260B  | 810    |   | ug/L  | 41   |
| 035    | UST#12719 MW-5      | Aqueous | Xylenes (total)             | 8260B  | 1500   |   | ug/L  | 41   |
| 036    | UST#12719 MW-16     | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 1700   |   | ug/L  | 42   |
| 036    | UST#12719 MW-16     | Aqueous | Benzene                     | 8260B  | 1900   |   | ug/L  | 42   |
| 036    | UST#12719 MW-16     | Aqueous | Diisopropyl ether (IPE)     | 8260B  | 15     | J | ug/L  | 42   |
| 036    | UST#12719 MW-16     | Aqueous | Methyl tertiary butyl ether | 8260B  | 98     |   | ug/L  | 42   |
| 036    | UST#12719 MW-16     | Aqueous | Naphthalene                 | 8260B  | 61     |   | ug/L  | 42   |
| 036    | UST#12719 MW-16     | Aqueous | Toluene                     | 8260B  | 15     | J | ug/L  | 42   |
| 036    | UST#12719 MW-16     | Aqueous | Xylenes (total)             | 8260B  | 750    |   | ug/L  | 42   |
| 037    | UST#12719 MW-16 Dup | Aqueous | tert-Amyl alcohol (TAA)     | 8260B  | 1700   |   | ug/L  | 43   |
| 037    | UST#12719 MW-16 Dup | Aqueous | Benzene                     | 8260B  | 1700   |   | ug/L  | 43   |
| 037    | UST#12719 MW-16 Dup | Aqueous | Methyl tertiary butyl ether | 8260B  | 100    |   | ug/L  | 43   |
| 037    | UST#12719 MW-16 Dup | Aqueous | Naphthalene                 | 8260B  | 58     |   | ug/L  | 43   |
| 037    | UST#12719 MW-16 Dup | Aqueous | Toluene                     | 8260B  | 12     | J | ug/L  | 43   |
| 037    | UST#12719 MW-16 Dup | Aqueous | Xylenes (total)             | 8260B  | 650    |   | ug/L  | 43   |

(83 detections)

Description: UST#12719 FB-1

Matrix: Aqueous

Date Sampled: 12/09/2019 1315

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 12/12/2019 1204 | BWS     |           | 38781 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 99               | 70-130            |
| Bromofluorobenzene    |   | 103              | 70-130            |
| Toluene-d8            |   | 102              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 MW-13

Matrix: Aqueous

Date Sampled: 12/09/2019 1346

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 12/12/2019 1620 | BWS     |           | 38781 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 98               | 70-130            |
| Bromofluorobenzene    |   | 105              | 70-130            |
| Toluene-d8            |   | 103              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 MW-10

Matrix: Aqueous

Date Sampled: 12/09/2019 1410

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 12/12/2019 1645 | BWS     |           | 38781 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 97               | 70-130            |
| Bromofluorobenzene    |   | 104              | 70-130            |
| Toluene-d8            |   | 103              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 MW-11

Matrix: Aqueous

Date Sampled: 12/09/2019 1424

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 12/12/2019 1710 | BWS     |           | 38781 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 102               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 109               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 105               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: UST#12719 MW-12

Matrix: Aqueous

Date Sampled: 12/09/2019 1500

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 12/12/2019 1735 | BWS     |           | 38781 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 100              | 70-130            |
| Bromofluorobenzene    |   | 105              | 70-130            |
| Toluene-d8            |   | 103              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 12/12/2019 1801 | BWS     |           | 38781 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 97               | 70-130            |
| Bromofluorobenzene    |   | 103              | 70-130            |
| Toluene-d8            |   | 101              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Description: UST#12719 MW-10R

Matrix: Aqueous

Date Sampled: 12/09/2019 1605

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 2   | 5030B       | 8260B             | 1        | 12/13/2019 1204 | BWS     |           | 38957 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 2   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 2   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 2   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 2   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 2   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 2   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |

| Surrogate             | Q | Run 2 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 96               | 70-130            |
| Bromofluorobenzene    |   | 103              | 70-130            |
| Toluene-d8            |   | 102              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 MW-8R

Matrix: Aqueous

Date Sampled: 12/09/2019 1647

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 12/12/2019 1827 | BWS     |           | 38781 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 97               | 70-130            |
| Bromofluorobenzene    |   | 105              | 70-130            |
| Toluene-d8            |   | 103              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 MW-7

Matrix: Aqueous

Date Sampled: 12/09/2019 1828

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst    | Prep Date   | Batch       |          |  |
|------------------------------------|------------------|-------------------|-------------------|-----------------|------------|-------------|-------------|----------|--|
| 1                                  | 5030B            | 8260B             | 1                 | 12/13/2019 0108 | JTH        |             | 38867       |          |  |
| Parameter                          | CAS Number       | Analytical Method | Result            | Q               | LOQ        | DL          | Units       | Run      |  |
| tert-Amyl alcohol (TAA)            | 75-85-4          | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8         | 8260B             | ND                |                 | 10         | 0.42        | ug/L        | 1        |  |
| Benzene                            | 71-43-2          | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| tert-Butyl formate (TBF)           | 762-75-4         | 8260B             | ND                |                 | 5.0        | 2.0         | ug/L        | 1        |  |
| 1,2-Dichloroethane                 | 107-06-2         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Diisopropyl ether (IPE)            | 108-20-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3         | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| Ethanol                            | 64-17-5          | 8260B             | ND                |                 | 100        | 52          | ug/L        | 1        |  |
| <b>Ethylbenzene</b>                | <b>100-41-4</b>  | <b>8260B</b>      | <b>2.0</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4        | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Naphthalene</b>                 | <b>91-20-3</b>   | <b>8260B</b>      | <b>1.8</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-butyl alcohol (TBA)           | 75-65-0          | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| Toluene                            | 108-88-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Xylenes (total)</b>             | <b>1330-20-7</b> | <b>8260B</b>      | <b>12</b>         |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Surrogate                          | Q                | Run 1 % Recovery  | Acceptance Limits |                 |            |             |             |          |  |
| 1,2-Dichloroethane-d4              |                  | 97                | 70-130            |                 |            |             |             |          |  |
| Bromofluorobenzene                 |                  | 104               | 70-130            |                 |            |             |             |          |  |
| Toluene-d8                         |                  | 102               | 70-130            |                 |            |             |             |          |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 12/13/2019 0133 | JTH     |           | 38867 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 98               | 70-130            |
| Bromofluorobenzene    |   | 105              | 70-130            |
| Toluene-d8            |   | 102              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260B             | 1                 | 12/13/2019 0159 | JTH     |           | 38867 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260B             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260B             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260B             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260B             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260B             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260B             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 96                | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 103               | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 103               | 70-130            |                 |         |           |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Description: UST#12719 FB-2

Matrix: Aqueous

Date Sampled: 12/10/2019 0815

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260B             | 1                 | 12/13/2019 0016 | JTH     |           | 38867 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260B             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260B             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260B             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260B             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260B             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260B             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 99                | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 105               | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 103               | 70-130            |                 |         |           |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 12/13/2019 0225 | JTH     |           | 38867 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 96               | 70-130            |
| Bromofluorobenzene    |   | 104              | 70-130            |
| Toluene-d8            |   | 102              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Description: UST#12719 MW-15

Matrix: Aqueous

Date Sampled: 12/10/2019 0855

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 12/13/2019 0250 | JTH     |           | 38867 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 97                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 103               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 102               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 MW-24

Matrix: Aqueous

Date Sampled: 12/10/2019 0951

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 12/13/2019 0316 | JTH     |           | 38867 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 97                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 103               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 102               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 DW-3

Matrix: Aqueous

Date Sampled: 12/10/2019 1010

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst    | Prep Date   | Batch       |          |  |
|------------------------------------|------------------|-------------------|-------------------|-----------------|------------|-------------|-------------|----------|--|
| 1                                  | 5030B            | 8260B             | 1                 | 12/13/2019 0342 | JTH        |             | 38867       |          |  |
| Parameter                          | CAS Number       | Analytical Method | Result            | Q               | LOQ        | DL          | Units       | Run      |  |
| tert-Amyl alcohol (TAA)            | 75-85-4          | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8         | 8260B             | ND                |                 | 10         | 0.42        | ug/L        | 1        |  |
| Benzene                            | 71-43-2          | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| tert-Butyl formate (TBF)           | 762-75-4         | 8260B             | ND                |                 | 5.0        | 2.0         | ug/L        | 1        |  |
| 1,2-Dichloroethane                 | 107-06-2         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Diisopropyl ether (IPE)            | 108-20-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3         | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| Ethanol                            | 64-17-5          | 8260B             | ND                |                 | 100        | 52          | ug/L        | 1        |  |
| Ethylbenzene                       | 100-41-4         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4        | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Naphthalene</b>                 | <b>91-20-3</b>   | <b>8260B</b>      | <b>0.46</b>       | <b>J</b>        | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-butyl alcohol (TBA)           | 75-65-0          | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| <b>Toluene</b>                     | <b>108-88-3</b>  | <b>8260B</b>      | <b>1.6</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Xylenes (total)</b>             | <b>1330-20-7</b> | <b>8260B</b>      | <b>1.4</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Surrogate                          | Q                | Run 1 % Recovery  | Acceptance Limits |                 |            |             |             |          |  |
| 1,2-Dichloroethane-d4              |                  | 97                | 70-130            |                 |            |             |             |          |  |
| Bromofluorobenzene                 |                  | 105               | 70-130            |                 |            |             |             |          |  |
| Toluene-d8                         |                  | 101               | 70-130            |                 |            |             |             |          |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 MW-23

Matrix: Aqueous

Date Sampled: 12/10/2019 1053

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 12/13/2019 0407 | JTH     |           | 38867 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 100               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 107               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 102               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 12/13/2019 0432 | JTH     |           | 38867 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 100               | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 104               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 102               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Description: UST#12719 MW-4

Matrix: Aqueous

Date Sampled: 12/10/2019 1156

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 12/13/2019 0458 | JTH     |           | 38867 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 97               | 70-130            |
| Bromofluorobenzene    |   | 105              | 70-130            |
| Toluene-d8            |   | 103              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 MW-9

Matrix: Aqueous

Date Sampled: 12/10/2019 1320

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 12/13/2019 0523 | JTH     |           | 38867 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 98                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 104               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 102               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: UST#12719 MW-1D

Matrix: Aqueous

Date Sampled: 12/10/2019 1405

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 12/13/2019 0549 | JTH     |           | 38867 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 96                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 105               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 102               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 MW-19

Matrix: Aqueous

Date Sampled: 12/10/2019 1505

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 12/13/2019 0614 | JTH     |           | 38867 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | ND                |                 | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 97                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 105               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 101               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 12/13/2019 0640 | JTH     |           | 38867 |

| Parameter                                 | CAS Number       | Analytical Method | Result      | Q        | LOQ        | DL          | Units       | Run      |
|---|------------------|-------------------|-------------|----------|------------|-------------|-------------|----------|
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | ND          |          | 20         | 8.0         | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND          |          | 10         | 0.42        | ug/L        | 1        |
| Benzene                                   | 71-43-2          | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND          |          | 5.0        | 2.0         | ug/L        | 1        |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| Diisopropyl ether (IPE)                   | 108-20-3         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND          |          | 20         | 8.0         | ug/L        | 1        |
| Ethanol                                   | 64-17-5          | 8260B             | ND          |          | 100        | 52          | ug/L        | 1        |
| Ethylbenzene                              | 100-41-4         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>0.97</b> | <b>J</b> | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Naphthalene                               | 91-20-3          | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | ND          |          | 20         | 8.0         | ug/L        | 1        |
| Toluene                                   | 108-88-3         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| Xylenes (total)                           | 1330-20-7        | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 96               | 70-130            |
| Bromofluorobenzene    |   | 102              | 70-130            |
| Toluene-d8            |   | 101              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Description: UST#12719 MW-21

Matrix: Aqueous

Date Sampled: 12/10/2019 1532

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst    | Prep Date   | Batch       |          |  |
|---|------------------|-------------------|-------------------|-----------------|------------|-------------|-------------|----------|--|
| 1   | 5030B            | 8260B             | 1                 | 12/13/2019 0705 | JTH        |             | 38867       |          |  |
| Parameter                                 | CAS Number       | Analytical Method | Result            | Q               | LOQ        | DL          | Units       | Run      |  |
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND                |                 | 10         | 0.42        | ug/L        | 1        |  |
| Benzene                                   | 71-43-2          | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND                |                 | 5.0        | 2.0         | ug/L        | 1        |  |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Diisopropyl ether (IPE)                   | 108-20-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| Ethanol                                   | 64-17-5          | 8260B             | ND                |                 | 100        | 52          | ug/L        | 1        |  |
| Ethylbenzene                              | 100-41-4         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>2.8</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Naphthalene                               | 91-20-3          | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| Toluene                                   | 108-88-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Xylenes (total)                           | 1330-20-7        | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Surrogate                                 | Q                | Run 1 % Recovery  | Acceptance Limits |                 |            |             |             |          |  |
| 1,2-Dichloroethane-d4                     |                  | 99                | 70-130            |                 |            |             |             |          |  |
| Bromofluorobenzene                        |                  | 105               | 70-130            |                 |            |             |             |          |  |
| Toluene-d8                                |                  | 102               | 70-130            |                 |            |             |             |          |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 MW-25

Matrix: Aqueous

Date Sampled: 12/10/2019 1558

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1                                  | 5030B       | 8260B             | 1                 | 12/13/2019 0731 | JTH     |           | 38867 |     |  |
| Parameter                          | CAS Number  | Analytical Method | Result            | Q               | LOQ     | DL        | Units | Run |  |
| tert-Amyl alcohol (TAA)            | 75-85-4     | 8260B             | 40                |                 | 20      | 8.0       | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8    | 8260B             | 1.5               | J               | 10      | 0.42      | ug/L  | 1   |  |
| Benzene                            | 71-43-2     | 8260B             | 3.7               |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           | 762-75-4    | 8260B             | ND                |                 | 5.0     | 2.0       | ug/L  | 1   |  |
| 1,2-Dichloroethane                 | 107-06-2    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            | 108-20-3    | 8260B             | 1.8               |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3    | 8260B             | ND                |                 | 20      | 8.0       | ug/L  | 1   |  |
| Ethanol                            | 64-17-5     | 8260B             | ND                |                 | 100     | 52        | ug/L  | 1   |  |
| Ethylbenzene                       | 100-41-4    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4   | 8260B             | 21                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Naphthalene                        | 91-20-3     | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           | 75-65-0     | 8260B             | 8.2               | J               | 20      | 8.0       | ug/L  | 1   |  |
| Toluene                            | 108-88-3    | 8260B             | ND                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Xylenes (total)                    | 1330-20-7   | 8260B             | 10                |                 | 1.0     | 0.40      | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |     |  |
| 1,2-Dichloroethane-d4              |             | 96                | 70-130            |                 |         |           |       |     |  |
| Bromofluorobenzene                 |             | 104               | 70-130            |                 |         |           |       |     |  |
| Toluene-d8                         |             | 101               | 70-130            |                 |         |           |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 DW-2

Matrix: Aqueous

Date Sampled: 12/10/2019 1642

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 12/13/2019 0756 | JTH     |           | 38867 |

| Parameter                                 | CAS Number       | Analytical Method | Result      | Q        | LOQ        | DL          | Units       | Run      |
|---|------------------|-------------------|-------------|----------|------------|-------------|-------------|----------|
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | ND          |          | 20         | 8.0         | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND          |          | 10         | 0.42        | ug/L        | 1        |
| Benzene                                   | 71-43-2          | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND          |          | 5.0        | 2.0         | ug/L        | 1        |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| Diisopropyl ether (IPE)                   | 108-20-3         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND          |          | 20         | 8.0         | ug/L        | 1        |
| Ethanol                                   | 64-17-5          | 8260B             | ND          |          | 100        | 52          | ug/L        | 1        |
| Ethylbenzene                              | 100-41-4         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>0.55</b> | <b>J</b> | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Naphthalene                               | 91-20-3          | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | ND          |          | 20         | 8.0         | ug/L        | 1        |
| <b>Toluene</b>                            | <b>108-88-3</b>  | <b>8260B</b>      | <b>0.42</b> | <b>J</b> | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Xylenes (total)                           | 1330-20-7        | 8260B             | ND          |          | 1.0        | 0.40        | ug/L        | 1        |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 96               | 70-130            |
| Bromofluorobenzene    |   | 102              | 70-130            |
| Toluene-d8            |   | 101              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 MW-2R

Matrix: Aqueous

Date Sampled: 12/10/2019 1723

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst    | Prep Date   | Batch       |          |  |
|---|------------------|-------------------|-------------------|-----------------|------------|-------------|-------------|----------|--|
| 1   | 5030B            | 8260B             | 1                 | 12/13/2019 0822 | JTH        |             | 38867       |          |  |
| Parameter                                 | CAS Number       | Analytical Method | Result            | Q               | LOQ        | DL          | Units       | Run      |  |
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | 10                | J               | 20         | 8.0         | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND                |                 | 10         | 0.42        | ug/L        | 1        |  |
| <b>Benzene</b>                            | <b>71-43-2</b>   | <b>8260B</b>      | <b>4.2</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND                |                 | 5.0        | 2.0         | ug/L        | 1        |  |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Diisopropyl ether (IPE)                   | 108-20-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| Ethanol                                   | 64-17-5          | 8260B             | ND                |                 | 100        | 52          | ug/L        | 1        |  |
| <b>Ethylbenzene</b>                       | <b>100-41-4</b>  | <b>8260B</b>      | <b>1.9</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>0.73</b>       | <b>J</b>        | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Naphthalene</b>                        | <b>91-20-3</b>   | <b>8260B</b>      | <b>1.8</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | 9.3               | J               | 20         | 8.0         | ug/L        | 1        |  |
| Toluene                                   | 108-88-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Xylenes (total)</b>                    | <b>1330-20-7</b> | <b>8260B</b>      | <b>7.6</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Surrogate                                 | Q                | Run 1 % Recovery  | Acceptance Limits |                 |            |             |             |          |  |
| 1,2-Dichloroethane-d4                     |                  | 96                | 70-130            |                 |            |             |             |          |  |
| Bromofluorobenzene                        |                  | 106               | 70-130            |                 |            |             |             |          |  |
| Toluene-d8                                |                  | 102               | 70-130            |                 |            |             |             |          |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260B             | 1                 | 12/13/2019 0042 | JTH     |           | 38867 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260B             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260B             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260B             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260B             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260B             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260B             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260B             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 96                | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 105               | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 102               | 70-130            |                 |         |           |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: UST#12719 MW-6

Matrix: Aqueous

Date Sampled: 12/11/2019 0945

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst    | Prep Date   | Batch       |          |  |
|---|------------------|-------------------|-------------------|-----------------|------------|-------------|-------------|----------|--|
| 1   | 5030B            | 8260B             | 1                 | 12/13/2019 1229 | BWS        |             | 38957       |          |  |
| Parameter                                 | CAS Number       | Analytical Method | Result            | Q               | LOQ        | DL          | Units       | Run      |  |
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND                |                 | 10         | 0.42        | ug/L        | 1        |  |
| <b>Benzene</b>                            | <b>71-43-2</b>   | <b>8260B</b>      | <b>26</b>         |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND                |                 | 5.0        | 2.0         | ug/L        | 1        |  |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Diisopropyl ether (IPE)</b>            | <b>108-20-3</b>  | <b>8260B</b>      | <b>0.78</b>       | <b>J</b>        | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| Ethanol                                   | 64-17-5          | 8260B             | ND                |                 | 100        | 52          | ug/L        | 1        |  |
| <b>Ethylbenzene</b>                       | <b>100-41-4</b>  | <b>8260B</b>      | <b>0.82</b>       | <b>J</b>        | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>3.3</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Naphthalene</b>                        | <b>91-20-3</b>   | <b>8260B</b>      | <b>18</b>         |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | 22                |                 | 20         | 8.0         | ug/L        | 1        |  |
| Toluene                                   | 108-88-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Xylenes (total)</b>                    | <b>1330-20-7</b> | <b>8260B</b>      | <b>39</b>         |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Surrogate                                 | Q                | Run 1 % Recovery  | Acceptance Limits |                 |            |             |             |          |  |
| 1,2-Dichloroethane-d4                     |                  | 100               | 70-130            |                 |            |             |             |          |  |
| Bromofluorobenzene                        |                  | 108               | 70-130            |                 |            |             |             |          |  |
| Toluene-d8                                |                  | 101               | 70-130            |                 |            |             |             |          |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 RW-2

Matrix: Aqueous

Date Sampled: 12/11/2019 1004

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst  | Prep Date  | Batch       |             |          |
|------------------------------------|-------------|-------------------|-------------------|-----------------|----------|------------|-------------|-------------|----------|
| 1                                  | 5030B       | 8260B             | 1                 | 12/13/2019 1254 | BWS      |            | 38957       |             |          |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q        | LOQ        | DL          | Units       | Run      |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260B             | ND              |          | 20         | 8.0         | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260B             | ND              |          | 10         | 0.42        | ug/L        | 1        |
| <b>Benzene</b>                     |             | <b>71-43-2</b>    | <b>8260B</b>      | <b>15</b>       |          | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260B             | ND              |          | 5.0        | 2.0         | ug/L        | 1        |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260B             | ND              |          | 1.0        | 0.40        | ug/L        | 1        |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260B             | ND              |          | 1.0        | 0.40        | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260B             | ND              |          | 20         | 8.0         | ug/L        | 1        |
| Ethanol                            |             | 64-17-5           | 8260B             | ND              |          | 100        | 52          | ug/L        | 1        |
| <b>Ethylbenzene</b>                |             | <b>100-41-4</b>   | <b>8260B</b>      | <b>13</b>       |          | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260B             | ND              |          | 1.0        | 0.40        | ug/L        | 1        |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260B             | ND              |          | 1.0        | 0.40        | ug/L        | 1        |
| <b>Naphthalene</b>                 |             | <b>91-20-3</b>    | <b>8260B</b>      | <b>68</b>       |          | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260B             | ND              |          | 20         | 8.0         | ug/L        | 1        |
| <b>Toluene</b>                     |             | <b>108-88-3</b>   | <b>8260B</b>      | <b>0.69</b>     | <b>J</b> | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| <b>Xylenes (total)</b>             |             | <b>1330-20-7</b>  | <b>8260B</b>      | <b>150</b>      |          | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |          |            |             |             |          |
| 1,2-Dichloroethane-d4              |             | 100               | 70-130            |                 |          |            |             |             |          |
| Bromofluorobenzene                 |             | 106               | 70-130            |                 |          |            |             |             |          |
| Toluene-d8                         |             | 102               | 70-130            |                 |          |            |             |             |          |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 MW-1R

Matrix: Aqueous

Date Sampled: 12/11/2019 1040

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst    | Prep Date   | Batch       |          |  |
|------------------------------------|------------------|-------------------|-------------------|-----------------|------------|-------------|-------------|----------|--|
| 1                                  | 5030B            | 8260B             | 1                 | 12/13/2019 1319 | BWS        |             | 38957       |          |  |
| Parameter                          | CAS Number       | Analytical Method | Result            | Q               | LOQ        | DL          | Units       | Run      |  |
| tert-Amyl alcohol (TAA)            | 75-85-4          | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)      | 994-05-8         | 8260B             | ND                |                 | 10         | 0.42        | ug/L        | 1        |  |
| <b>Benzene</b>                     | <b>71-43-2</b>   | <b>8260B</b>      | <b>46</b>         |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-Butyl formate (TBF)           | 762-75-4         | 8260B             | ND                |                 | 5.0        | 2.0         | ug/L        | 1        |  |
| 1,2-Dichloroethane                 | 107-06-2         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Diisopropyl ether (IPE)            | 108-20-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| 3,3-Dimethyl-1-butanol             | 624-95-3         | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| Ethanol                            | 64-17-5          | 8260B             | ND                |                 | 100        | 52          | ug/L        | 1        |  |
| <b>Ethylbenzene</b>                | <b>100-41-4</b>  | <b>8260B</b>      | <b>74</b>         |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3         | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4        | 8260B             | ND                |                 | 1.0        | 0.40        | ug/L        | 1        |  |
| <b>Naphthalene</b>                 | <b>91-20-3</b>   | <b>8260B</b>      | <b>110</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-butyl alcohol (TBA)           | 75-65-0          | 8260B             | ND                |                 | 20         | 8.0         | ug/L        | 1        |  |
| <b>Toluene</b>                     | <b>108-88-3</b>  | <b>8260B</b>      | <b>3.3</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Xylenes (total)</b>             | <b>1330-20-7</b> | <b>8260B</b>      | <b>240</b>        |                 | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |  |
| Surrogate                          | Q                | Run 1 % Recovery  | Acceptance Limits |                 |            |             |             |          |  |
| 1,2-Dichloroethane-d4              |                  | 101               | 70-130            |                 |            |             |             |          |  |
| Bromofluorobenzene                 |                  | 109               | 70-130            |                 |            |             |             |          |  |
| Toluene-d8                         |                  | 102               | 70-130            |                 |            |             |             |          |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 MW-3R

Matrix: Aqueous

Date Sampled: 12/11/2019 1105

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 10       | 12/13/2019 1345 | BWS     |           | 38957 |
| 2   | 5030B       | 8260B             | 10       | 12/17/2019 0323 | ALR1    |           | 39182 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ  | DL  | Units | Run |
|------------------------------------|------------|-------------------|--------|---|------|-----|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | 1000   |   | 200  | 80  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | 31     | J | 100  | 4.2 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | 1100   |   | 10   | 4.0 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 50   | 20  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 10   | 4.0 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | 330    |   | 10   | 4.0 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 200  | 80  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 1000 | 520 | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | 47     |   | 10   | 4.0 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 10   | 4.0 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | 83     |   | 10   | 4.0 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | 95     |   | 10   | 4.0 | ug/L  | 2   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | 270    |   | 200  | 80  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 10   | 4.0 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | 12     |   | 10   | 4.0 | ug/L  | 1   |

| Surrogate             | Q | Run 1      |                   | Q | Run 2      |                   |
|-----------------------|---|------------|-------------------|---|------------|-------------------|
|                       |   | % Recovery | Acceptance Limits |   | % Recovery | Acceptance Limits |
| 1,2-Dichloroethane-d4 |   | 99         | 70-130            |   | 97         | 70-130            |
| Bromofluorobenzene    |   | 106        | 70-130            |   | 103        | 70-130            |
| Toluene-d8            |   | 102        | 70-130            |   | 100        | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 RW-3

Matrix: Aqueous

Date Sampled: 12/11/2019 1118

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst   | Prep Date | Batch       |          |  |
|---|------------------|-------------------|-------------------|-----------------|-----------|-----------|-------------|----------|--|
| 1   | 5030B            | 8260B             | 50                | 12/13/2019 1436 | BWS       |           | 38957       |          |  |
| Parameter                                 | CAS Number       | Analytical Method | Result            | Q               | LOQ       | DL        | Units       | Run      |  |
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | 2000              |                 | 1000      | 400       | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND                |                 | 500       | 21        | ug/L        | 1        |  |
| <b>Benzene</b>                            | <b>71-43-2</b>   | <b>8260B</b>      | <b>3000</b>       |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND                |                 | 250       | 100       | ug/L        | 1        |  |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| <b>Diisopropyl ether (IPE)</b>            | <b>108-20-3</b>  | <b>8260B</b>      | <b>190</b>        |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND                |                 | 1000      | 400       | ug/L        | 1        |  |
| Ethanol                                   | 64-17-5          | 8260B             | ND                |                 | 5000      | 2600      | ug/L        | 1        |  |
| <b>Ethylbenzene</b>                       | <b>100-41-4</b>  | <b>8260B</b>      | <b>79</b>         |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>130</b>        |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Naphthalene</b>                        | <b>91-20-3</b>   | <b>8260B</b>      | <b>44</b>         | <b>J</b>        | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | ND                |                 | 1000      | 400       | ug/L        | 1        |  |
| Toluene                                   | 108-88-3         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| <b>Xylenes (total)</b>                    | <b>1330-20-7</b> | <b>8260B</b>      | <b>1100</b>       |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| Surrogate                                 | Q                | Run 1 % Recovery  | Acceptance Limits |                 |           |           |             |          |  |
| 1,2-Dichloroethane-d4                     |                  | 97                | 70-130            |                 |           |           |             |          |  |
| Bromofluorobenzene                        |                  | 107               | 70-130            |                 |           |           |             |          |  |
| Toluene-d8                                |                  | 102               | 70-130            |                 |           |           |             |          |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 RW-3 Dup

Matrix: Aqueous

Date Sampled: 12/11/2019 1120

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst   | Prep Date | Batch       |          |  |
|---|------------------|-------------------|-------------------|-----------------|-----------|-----------|-------------|----------|--|
| 1   | 5030B            | 8260B             | 50                | 12/13/2019 1501 | BWS       |           | 38957       |          |  |
| Parameter                                 | CAS Number       | Analytical Method | Result            | Q               | LOQ       | DL        | Units       | Run      |  |
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | 2000              |                 | 1000      | 400       | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND                |                 | 500       | 21        | ug/L        | 1        |  |
| <b>Benzene</b>                            | <b>71-43-2</b>   | <b>8260B</b>      | <b>2900</b>       |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND                |                 | 250       | 100       | ug/L        | 1        |  |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| <b>Diisopropyl ether (IPE)</b>            | <b>108-20-3</b>  | <b>8260B</b>      | <b>190</b>        |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND                |                 | 1000      | 400       | ug/L        | 1        |  |
| Ethanol                                   | 64-17-5          | 8260B             | ND                |                 | 5000      | 2600      | ug/L        | 1        |  |
| <b>Ethylbenzene</b>                       | <b>100-41-4</b>  | <b>8260B</b>      | <b>82</b>         |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>140</b>        |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Naphthalene</b>                        | <b>91-20-3</b>   | <b>8260B</b>      | <b>41</b>         | <b>J</b>        | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | ND                |                 | 1000      | 400       | ug/L        | 1        |  |
| Toluene                                   | 108-88-3         | 8260B             | ND                |                 | 50        | 20        | ug/L        | 1        |  |
| <b>Xylenes (total)</b>                    | <b>1330-20-7</b> | <b>8260B</b>      | <b>1000</b>       |                 | <b>50</b> | <b>20</b> | <b>ug/L</b> | <b>1</b> |  |
| Surrogate                                 | Q                | Run 1 % Recovery  | Acceptance Limits |                 |           |           |             |          |  |
| 1,2-Dichloroethane-d4                     |                  | 99                | 70-130            |                 |           |           |             |          |  |
| Bromofluorobenzene                        |                  | 108               | 70-130            |                 |           |           |             |          |  |
| Toluene-d8                                |                  | 103               | 70-130            |                 |           |           |             |          |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 MW-5

Matrix: Aqueous

Date Sampled: 12/11/2019 1145

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 10       | 12/13/2019 1411 | BWS     |           | 38957 |

| Parameter                                 | CAS Number       | Analytical Method | Result      | Q | LOQ       | DL         | Units       | Run      |
|---|------------------|-------------------|-------------|---|-----------|------------|-------------|----------|
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | 260         |   | 200       | 80         | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND          |   | 100       | 4.2        | ug/L        | 1        |
| <b>Benzene</b>                            | <b>71-43-2</b>   | <b>8260B</b>      | <b>1300</b> |   | <b>10</b> | <b>4.0</b> | <b>ug/L</b> | <b>1</b> |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND          |   | 50        | 20         | ug/L        | 1        |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND          |   | 10        | 4.0        | ug/L        | 1        |
| Diisopropyl ether (IPE)                   | 108-20-3         | 8260B             | ND          |   | 10        | 4.0        | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND          |   | 200       | 80         | ug/L        | 1        |
| Ethanol                                   | 64-17-5          | 8260B             | ND          |   | 1000      | 520        | ug/L        | 1        |
| <b>Ethylbenzene</b>                       | <b>100-41-4</b>  | <b>8260B</b>      | <b>89</b>   |   | <b>10</b> | <b>4.0</b> | <b>ug/L</b> | <b>1</b> |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND          |   | 10        | 4.0        | ug/L        | 1        |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>20</b>   |   | <b>10</b> | <b>4.0</b> | <b>ug/L</b> | <b>1</b> |
| Naphthalene                               | 91-20-3          | 8260B             | ND          |   | 10        | 4.0        | ug/L        | 1        |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | ND          |   | 200       | 80         | ug/L        | 1        |
| <b>Toluene</b>                            | <b>108-88-3</b>  | <b>8260B</b>      | <b>810</b>  |   | <b>10</b> | <b>4.0</b> | <b>ug/L</b> | <b>1</b> |
| <b>Xylenes (total)</b>                    | <b>1330-20-7</b> | <b>8260B</b>      | <b>1500</b> |   | <b>10</b> | <b>4.0</b> | <b>ug/L</b> | <b>1</b> |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 96               | 70-130            |
| Bromofluorobenzene    |   | 104              | 70-130            |
| Toluene-d8            |   | 102              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 MW-16

Matrix: Aqueous

Date Sampled: 12/11/2019 1205

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method      | Analytical Method | Dilution          | Analysis Date | Analyst   | Prep Date  | Batch       |          |  |
|---|------------------|-------------------|-------------------|---------------|-----------|------------|-------------|----------|--|
| 1   | 5030B            | 8260B             | 20                | 12/14/2019    | 2011 STM  |            | 39030       |          |  |
| Parameter                                 | CAS Number       | Analytical Method | Result            | Q             | LOQ       | DL         | Units       | Run      |  |
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | 1700              |               | 400       | 160        | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND                |               | 200       | 8.4        | ug/L        | 1        |  |
| <b>Benzene</b>                            | <b>71-43-2</b>   | <b>8260B</b>      | <b>1900</b>       |               | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND                |               | 100       | 40         | ug/L        | 1        |  |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND                |               | 20        | 8.0        | ug/L        | 1        |  |
| <b>Diisopropyl ether (IPE)</b>            | <b>108-20-3</b>  | <b>8260B</b>      | <b>15</b>         | <b>J</b>      | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>1</b> |  |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND                |               | 400       | 160        | ug/L        | 1        |  |
| Ethanol                                   | 64-17-5          | 8260B             | ND                |               | 2000      | 1000       | ug/L        | 1        |  |
| Ethylbenzene                              | 100-41-4         | 8260B             | ND                |               | 20        | 8.0        | ug/L        | 1        |  |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND                |               | 20        | 8.0        | ug/L        | 1        |  |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>98</b>         |               | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Naphthalene</b>                        | <b>91-20-3</b>   | <b>8260B</b>      | <b>61</b>         |               | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | ND                |               | 400       | 160        | ug/L        | 1        |  |
| <b>Toluene</b>                            | <b>108-88-3</b>  | <b>8260B</b>      | <b>15</b>         | <b>J</b>      | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Xylenes (total)</b>                    | <b>1330-20-7</b> | <b>8260B</b>      | <b>750</b>        |               | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>1</b> |  |
| Surrogate                                 | Q                | Run 1 % Recovery  | Acceptance Limits |               |           |            |             |          |  |
| 1,2-Dichloroethane-d4                     |                  | 95                | 70-130            |               |           |            |             |          |  |
| Bromofluorobenzene                        |                  | 105               | 70-130            |               |           |            |             |          |  |
| Toluene-d8                                |                  | 101               | 70-130            |               |           |            |             |          |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



Description: UST#12719 MW-16 Dup

Matrix: Aqueous

Date Sampled: 12/11/2019 1207

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method      | Analytical Method | Dilution          | Analysis Date   | Analyst   | Prep Date  | Batch       |          |  |
|---|------------------|-------------------|-------------------|-----------------|-----------|------------|-------------|----------|--|
| 1   | 5030B            | 8260B             | 20                | 12/14/2019 2036 | STM       |            | 39030       |          |  |
| Parameter                                 | CAS Number       | Analytical Method | Result            | Q               | LOQ       | DL         | Units       | Run      |  |
| tert-Amyl alcohol (TAA)                   | 75-85-4          | 8260B             | 1700              |                 | 400       | 160        | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)             | 994-05-8         | 8260B             | ND                |                 | 200       | 8.4        | ug/L        | 1        |  |
| <b>Benzene</b>                            | <b>71-43-2</b>   | <b>8260B</b>      | <b>1700</b>       |                 | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-Butyl formate (TBF)                  | 762-75-4         | 8260B             | ND                |                 | 100       | 40         | ug/L        | 1        |  |
| 1,2-Dichloroethane                        | 107-06-2         | 8260B             | ND                |                 | 20        | 8.0        | ug/L        | 1        |  |
| Diisopropyl ether (IPE)                   | 108-20-3         | 8260B             | ND                |                 | 20        | 8.0        | ug/L        | 1        |  |
| 3,3-Dimethyl-1-butanol                    | 624-95-3         | 8260B             | ND                |                 | 400       | 160        | ug/L        | 1        |  |
| Ethanol                                   | 64-17-5          | 8260B             | ND                |                 | 2000      | 1000       | ug/L        | 1        |  |
| Ethylbenzene                              | 100-41-4         | 8260B             | ND                |                 | 20        | 8.0        | ug/L        | 1        |  |
| Ethyl-tert-butyl ether (ETBE)             | 637-92-3         | 8260B             | ND                |                 | 20        | 8.0        | ug/L        | 1        |  |
| <b>Methyl tertiary butyl ether (MTBE)</b> | <b>1634-04-4</b> | <b>8260B</b>      | <b>100</b>        |                 | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Naphthalene</b>                        | <b>91-20-3</b>   | <b>8260B</b>      | <b>58</b>         |                 | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-butyl alcohol (TBA)                  | 75-65-0          | 8260B             | ND                |                 | 400       | 160        | ug/L        | 1        |  |
| <b>Toluene</b>                            | <b>108-88-3</b>  | <b>8260B</b>      | <b>12</b>         | <b>J</b>        | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Xylenes (total)</b>                    | <b>1330-20-7</b> | <b>8260B</b>      | <b>650</b>        |                 | <b>20</b> | <b>8.0</b> | <b>ug/L</b> | <b>1</b> |  |
| Surrogate                                 | Q                | Run 1 % Recovery  | Acceptance Limits |                 |           |            |             |          |  |
| 1,2-Dichloroethane-d4                     |                  | 99                | 70-130            |                 |           |            |             |          |  |
| Bromofluorobenzene                        |                  | 107               | 70-130            |                 |           |            |             |          |  |
| Toluene-d8                                |                  | 102               | 70-130            |                 |           |            |             |          |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 SW-1

Matrix: Aqueous

Date Sampled: 12/11/2019 1240

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 12/14/2019 1647 | STM     |           | 39030 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 100              | 70-130            |
| Bromofluorobenzene    |   | 106              | 70-130            |
| Toluene-d8            |   | 102              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: UST#12719 Trip Blank

Matrix: Aqueous

Date Sampled: 12/09/2019

Date Received: 12/11/2019

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 12/13/2019 1138 | BWS     |           | 38957 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260B             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260B             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260B             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260B             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260B             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 99               | 70-130            |
| Bromofluorobenzene    |   | 107              | 70-130            |
| Toluene-d8            |   | 103              | 70-130            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## QC Summary

## Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ38781-001

Matrix: Aqueous

Batch: 38781

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |       | 1                | 20  | 8.0  | ug/L  | 12/12/2019 1036 |
| tert-Amyl methyl ether (TAME)      | ND     |       | 1                | 10  | 0.42 | ug/L  | 12/12/2019 1036 |
| Benzene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/12/2019 1036 |
| tert-Butyl formate (TBF)           | ND     |       | 1                | 5.0 | 2.0  | ug/L  | 12/12/2019 1036 |
| 1,2-Dichloroethane                 | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/12/2019 1036 |
| Diisopropyl ether (IPE)            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/12/2019 1036 |
| 3,3-Dimethyl-1-butanol             | ND     |       | 1                | 20  | 8.0  | ug/L  | 12/12/2019 1036 |
| Ethanol                            | ND     |       | 1                | 100 | 52   | ug/L  | 12/12/2019 1036 |
| Ethylbenzene                       | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/12/2019 1036 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/12/2019 1036 |
| Methyl tertiary butyl ether (MTBE) | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/12/2019 1036 |
| Naphthalene                        | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/12/2019 1036 |
| tert-butyl alcohol (TBA)           | ND     |       | 1                | 20  | 8.0  | ug/L  | 12/12/2019 1036 |
| Toluene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/12/2019 1036 |
| Xylenes (total)                    | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/12/2019 1036 |
| Surrogate                          | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4              |        | 96    | 70-130           |     |      |       |                 |
| Bromofluorobenzene                 |        | 105   | 70-130           |     |      |       |                 |
| Toluene-d8                         |        | 103   | 70-130           |     |      |       |                 |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ38781-002

Matrix: Aqueous

Batch: 38781

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 1100          |   | 1   | 111   | 70-130      | 12/12/2019 0945 |
| tert-Amyl methyl ether (TAME)      | 50                  | 52            |   | 1   | 105   | 70-130      | 12/12/2019 0945 |
| Benzene                            | 50                  | 52            |   | 1   | 105   | 70-130      | 12/12/2019 0945 |
| tert-Butyl formate (TBF)           | 250                 | 230           |   | 1   | 91    | 70-130      | 12/12/2019 0945 |
| 1,2-Dichloroethane                 | 50                  | 51            |   | 1   | 102   | 70-130      | 12/12/2019 0945 |
| Diisopropyl ether (IPE)            | 50                  | 56            |   | 1   | 112   | 70-130      | 12/12/2019 0945 |
| 3,3-Dimethyl-1-butanol             | 1000                | 1200          |   | 1   | 117   | 70-130      | 12/12/2019 0945 |
| Ethanol                            | 5000                | 5400          |   | 1   | 109   | 70-130      | 12/12/2019 0945 |
| Ethylbenzene                       | 50                  | 54            |   | 1   | 109   | 70-130      | 12/12/2019 0945 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 52            |   | 1   | 104   | 70-130      | 12/12/2019 0945 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 46            |   | 1   | 92    | 70-130      | 12/12/2019 0945 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ38781-002

Matrix: Aqueous

Batch: 38781

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|--------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| Naphthalene              | 50                  | 54            |                  | 1   | 109   | 70-130      | 12/12/2019 0945 |
| tert-butyl alcohol (TBA) | 1000                | 1100          |                  | 1   | 108   | 70-130      | 12/12/2019 0945 |
| Toluene                  | 50                  | 54            |                  | 1   | 108   | 70-130      | 12/12/2019 0945 |
| Xylenes (total)          | 100                 | 110           |                  | 1   | 109   | 70-130      | 12/12/2019 0945 |
| Surrogate                | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4    |                     | 96            | 70-130           |     |       |             |                 |
| Bromofluorobenzene       |                     | 105           | 70-130           |     |       |             |                 |
| Toluene-d8               |                     | 103           | 70-130           |     |       |             |                 |

## Volatile Organic Compounds by GC/MS - MS

Sample ID: UL11083-007MS

Matrix: Aqueous

Batch: 38781

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|------------------|---|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | ND                   | 5000                | 5500             |   | 5   | 109   | 70-130      | 12/12/2019 1944 |
| tert-Amyl methyl ether (TAME)      | ND                   | 250                 | 260              |   | 5   | 105   | 70-130      | 12/12/2019 1944 |
| Benzene                            | ND                   | 250                 | 280              |   | 5   | 112   | 70-130      | 12/12/2019 1944 |
| tert-Butyl formate (TBF)           | ND                   | 1300                | 82               | N | 5   | 6.6   | 70-130      | 12/12/2019 1944 |
| 1,2-Dichloroethane                 | ND                   | 250                 | 270              |   | 5   | 107   | 70-130      | 12/12/2019 1944 |
| Diisopropyl ether (IPE)            | ND                   | 250                 | 290              |   | 5   | 116   | 70-130      | 12/12/2019 1944 |
| 3,3-Dimethyl-1-butanol             | ND                   | 5000                | 5700             |   | 5   | 115   | 70-130      | 12/12/2019 1944 |
| Ethanol                            | ND                   | 25000               | 26000            |   | 5   | 104   | 70-130      | 12/12/2019 1944 |
| Ethylbenzene                       | ND                   | 250                 | 290              |   | 5   | 115   | 70-130      | 12/12/2019 1944 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 250                 | 270              |   | 5   | 107   | 70-130      | 12/12/2019 1944 |
| Methyl tertiary butyl ether (MTBE) | ND                   | 250                 | 230              |   | 5   | 93    | 70-130      | 12/12/2019 1944 |
| Naphthalene                        | ND                   | 250                 | 270              |   | 5   | 109   | 70-130      | 12/12/2019 1944 |
| tert-butyl alcohol (TBA)           | ND                   | 5000                | 6100             |   | 5   | 122   | 70-130      | 12/12/2019 1944 |
| Toluene                            | ND                   | 250                 | 280              |   | 5   | 114   | 70-130      | 12/12/2019 1944 |
| Xylenes (total)                    | ND                   | 500                 | 570              |   | 5   | 115   | 70-130      | 12/12/2019 1944 |
| Surrogate                          | Q                    | % Rec               | Acceptance Limit |   |     |       |             |                 |
| 1,2-Dichloroethane-d4              |                      | 95                  | 70-130           |   |     |       |             |                 |
| Bromofluorobenzene                 |                      | 103                 | 70-130           |   |     |       |             |                 |
| Toluene-d8                         |                      | 102                 | 70-130           |   |     |       |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MSD

Sample ID: UL11083-007MD

Matrix: Aqueous

Batch: 38781

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q   | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|------------------|-----|-----|-------|-------|-------------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | ND                   | 5000                | 4600             |     | 5   | 91    | 18    | 70-130      | 20          | 12/12/2019 2010 |
| tert-Amyl methyl ether (TAME)      | ND                   | 250                 | 220              |     | 5   | 87    | 19    | 70-130      | 20          | 12/12/2019 2010 |
| Benzene                            | ND                   | 250                 | 240              |     | 5   | 95    | 17    | 70-130      | 20          | 12/12/2019 2010 |
| tert-Butyl formate (TBF)           | ND                   | 1300                | 66               | N,+ | 5   | 5.3   | 23    | 70-130      | 20          | 12/12/2019 2010 |
| 1,2-Dichloroethane                 | ND                   | 250                 | 230              |     | 5   | 91    | 16    | 70-130      | 20          | 12/12/2019 2010 |
| Diisopropyl ether (IPE)            | ND                   | 250                 | 240              |     | 5   | 97    | 18    | 70-130      | 20          | 12/12/2019 2010 |
| 3,3-Dimethyl-1-butanol             | ND                   | 5000                | 4800             |     | 5   | 97    | 17    | 70-130      | 20          | 12/12/2019 2010 |
| Ethanol                            | ND                   | 25000               | 22000            |     | 5   | 88    | 16    | 70-130      | 20          | 12/12/2019 2010 |
| Ethylbenzene                       | ND                   | 250                 | 250              |     | 5   | 98    | 16    | 70-130      | 20          | 12/12/2019 2010 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 250                 | 220              |     | 5   | 89    | 18    | 70-130      | 20          | 12/12/2019 2010 |
| Methyl tertiary butyl ether (MTBE) | ND                   | 250                 | 190              |     | 5   | 77    | 19    | 70-130      | 20          | 12/12/2019 2010 |
| Naphthalene                        | ND                   | 250                 | 230              |     | 5   | 94    | 15    | 70-130      | 20          | 12/12/2019 2010 |
| tert-butyl alcohol (TBA)           | ND                   | 5000                | 5000             |     | 5   | 100   | 20    | 70-130      | 20          | 12/12/2019 2010 |
| Toluene                            | ND                   | 250                 | 240              |     | 5   | 97    | 16    | 70-130      | 20          | 12/12/2019 2010 |
| Xylenes (total)                    | ND                   | 500                 | 480              |     | 5   | 97    | 17    | 70-130      | 20          | 12/12/2019 2010 |
| Surrogate                          | Q                    | % Rec               | Acceptance Limit |     |     |       |       |             |             |                 |
| 1,2-Dichloroethane-d4              |                      | 95                  | 70-130           |     |     |       |       |             |             |                 |
| Bromofluorobenzene                 |                      | 105                 | 70-130           |     |     |       |       |             |             |                 |
| Toluene-d8                         |                      | 103                 | 70-130           |     |     |       |       |             |             |                 |

## Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ38867-001

Matrix: Aqueous

Batch: 38867

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Result | Q | Dil | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|---|-----|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |   | 1   | 20  | 8.0  | ug/L  | 12/12/2019 2333 |
| tert-Amyl methyl ether (TAME)      | ND     |   | 1   | 10  | 0.42 | ug/L  | 12/12/2019 2333 |
| Benzene                            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 12/12/2019 2333 |
| tert-Butyl formate (TBF)           | ND     |   | 1   | 5.0 | 2.0  | ug/L  | 12/12/2019 2333 |
| 1,2-Dichloroethane                 | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 12/12/2019 2333 |
| Diisopropyl ether (IPE)            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 12/12/2019 2333 |
| 3,3-Dimethyl-1-butanol             | ND     |   | 1   | 20  | 8.0  | ug/L  | 12/12/2019 2333 |
| Ethanol                            | ND     |   | 1   | 100 | 52   | ug/L  | 12/12/2019 2333 |
| Ethylbenzene                       | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 12/12/2019 2333 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 12/12/2019 2333 |
| Methyl tertiary butyl ether (MTBE) | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 12/12/2019 2333 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ38867-001

Matrix: Aqueous

Batch: 38867

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|--------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| Naphthalene              | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/12/2019 2333 |
| tert-butyl alcohol (TBA) | ND     |       | 1                | 20  | 8.0  | ug/L  | 12/12/2019 2333 |
| Toluene                  | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/12/2019 2333 |
| Xylenes (total)          | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/12/2019 2333 |
| Surrogate                | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4    |        | 100   | 70-130           |     |      |       |                 |
| Bromofluorobenzene       |        | 106   | 70-130           |     |      |       |                 |
| Toluene-d8               |        | 103   | 70-130           |     |      |       |                 |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ38867-002

Matrix: Aqueous

Batch: 38867

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 1100          |                  | 1   | 108   | 70-130      | 12/12/2019 2146 |
| tert-Amyl methyl ether (TAME)      | 50                  | 52            |                  | 1   | 103   | 70-130      | 12/12/2019 2146 |
| Benzene                            | 50                  | 52            |                  | 1   | 104   | 70-130      | 12/12/2019 2146 |
| tert-Butyl formate (TBF)           | 250                 | 220           |                  | 1   | 87    | 70-130      | 12/12/2019 2146 |
| 1,2-Dichloroethane                 | 50                  | 52            |                  | 1   | 103   | 70-130      | 12/12/2019 2146 |
| Diisopropyl ether (IPE)            | 50                  | 56            |                  | 1   | 113   | 70-130      | 12/12/2019 2146 |
| 3,3-Dimethyl-1-butanol             | 1000                | 1200          |                  | 1   | 116   | 70-130      | 12/12/2019 2146 |
| Ethanol                            | 5000                | 5600          |                  | 1   | 112   | 70-130      | 12/12/2019 2146 |
| Ethylbenzene                       | 50                  | 53            |                  | 1   | 107   | 70-130      | 12/12/2019 2146 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 52            |                  | 1   | 104   | 70-130      | 12/12/2019 2146 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 46            |                  | 1   | 91    | 70-130      | 12/12/2019 2146 |
| Naphthalene                        | 50                  | 54            |                  | 1   | 108   | 70-130      | 12/12/2019 2146 |
| tert-butyl alcohol (TBA)           | 1000                | 1100          |                  | 1   | 106   | 70-130      | 12/12/2019 2146 |
| Toluene                            | 50                  | 53            |                  | 1   | 105   | 70-130      | 12/12/2019 2146 |
| Xylenes (total)                    | 100                 | 110           |                  | 1   | 107   | 70-130      | 12/12/2019 2146 |
| Surrogate                          | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4              |                     | 97            | 70-130           |     |       |             |                 |
| Bromofluorobenzene                 |                     | 105           | 70-130           |     |       |             |                 |
| Toluene-d8                         |                     | 102           | 70-130           |     |       |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com



## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: UQ38867-003

Matrix: Aqueous

Batch: 38867

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|------------------|-----|-------|-------|-------------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 1100          | 1                | 1   | 106   | 1.3   | 70-130      | 20          | 12/12/2019 2229 |
| tert-Amyl methyl ether (TAME)      | 50                  | 50            | 1                | 1   | 100   | 2.8   | 70-130      | 20          | 12/12/2019 2229 |
| Benzene                            | 50                  | 50            | 1                | 1   | 100   | 3.6   | 70-130      | 20          | 12/12/2019 2229 |
| tert-Butyl formate (TBF)           | 250                 | 210           | 1                | 1   | 85    | 2.4   | 70-130      | 20          | 12/12/2019 2229 |
| 1,2-Dichloroethane                 | 50                  | 50            | 1                | 1   | 100   | 3.7   | 70-130      | 20          | 12/12/2019 2229 |
| Diisopropyl ether (IPE)            | 50                  | 54            | 1                | 1   | 109   | 3.6   | 70-130      | 20          | 12/12/2019 2229 |
| 3,3-Dimethyl-1-butanol             | 1000                | 1100          | 1                | 1   | 114   | 2.2   | 70-130      | 20          | 12/12/2019 2229 |
| Ethanol                            | 5000                | 5300          | 1                | 1   | 106   | 5.7   | 70-130      | 20          | 12/12/2019 2229 |
| Ethylbenzene                       | 50                  | 52            | 1                | 1   | 103   | 3.3   | 70-130      | 20          | 12/12/2019 2229 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 51            | 1                | 1   | 102   | 2.1   | 70-130      | 20          | 12/12/2019 2229 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 44            | 1                | 1   | 89    | 2.8   | 70-130      | 20          | 12/12/2019 2229 |
| Naphthalene                        | 50                  | 54            | 1                | 1   | 107   | 1.1   | 70-130      | 20          | 12/12/2019 2229 |
| tert-butyl alcohol (TBA)           | 1000                | 1000          | 1                | 1   | 104   | 1.7   | 70-130      | 20          | 12/12/2019 2229 |
| Toluene                            | 50                  | 51            | 1                | 1   | 102   | 3.2   | 70-130      | 20          | 12/12/2019 2229 |
| Xylenes (total)                    | 100                 | 100           | 1                | 1   | 103   | 3.6   | 70-130      | 20          | 12/12/2019 2229 |
| Surrogate                          | Q                   | % Rec         | Acceptance Limit |     |       |       |             |             |                 |
| 1,2-Dichloroethane-d4              |                     | 98            | 70-130           |     |       |       |             |             |                 |
| Bromofluorobenzene                 |                     | 107           | 70-130           |     |       |       |             |             |                 |
| Toluene-d8                         |                     | 102           | 70-130           |     |       |       |             |             |                 |

## Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ38957-001

Matrix: Aqueous

Batch: 38957

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Result | Q | Dil | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|---|-----|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |   | 1   | 20  | 8.0  | ug/L  | 12/13/2019 1057 |
| tert-Amyl methyl ether (TAME)      | ND     |   | 1   | 10  | 0.42 | ug/L  | 12/13/2019 1057 |
| Benzene                            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 12/13/2019 1057 |
| tert-Butyl formate (TBF)           | ND     |   | 1   | 5.0 | 2.0  | ug/L  | 12/13/2019 1057 |
| 1,2-Dichloroethane                 | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 12/13/2019 1057 |
| Diisopropyl ether (IPE)            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 12/13/2019 1057 |
| 3,3-Dimethyl-1-butanol             | ND     |   | 1   | 20  | 8.0  | ug/L  | 12/13/2019 1057 |
| Ethanol                            | ND     |   | 1   | 100 | 52   | ug/L  | 12/13/2019 1057 |
| Ethylbenzene                       | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 12/13/2019 1057 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 12/13/2019 1057 |
| Methyl tertiary butyl ether (MTBE) | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 12/13/2019 1057 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ38957-001

Matrix: Aqueous

Batch: 38957

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|--------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| Naphthalene              | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/13/2019 1057 |
| tert-butyl alcohol (TBA) | ND     |       | 1                | 20  | 8.0  | ug/L  | 12/13/2019 1057 |
| Toluene                  | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/13/2019 1057 |
| Xylenes (total)          | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/13/2019 1057 |
| Surrogate                | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4    |        | 97    | 70-130           |     |      |       |                 |
| Bromofluorobenzene       |        | 105   | 70-130           |     |      |       |                 |
| Toluene-d8               |        | 104   | 70-130           |     |      |       |                 |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ38957-002

Matrix: Aqueous

Batch: 38957

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 1100          |                  | 1   | 109   | 70-130      | 12/13/2019 1006 |
| tert-Amyl methyl ether (TAME)      | 50                  | 51            |                  | 1   | 102   | 70-130      | 12/13/2019 1006 |
| Benzene                            | 50                  | 50            |                  | 1   | 101   | 70-130      | 12/13/2019 1006 |
| tert-Butyl formate (TBF)           | 250                 | 210           |                  | 1   | 86    | 70-130      | 12/13/2019 1006 |
| 1,2-Dichloroethane                 | 50                  | 51            |                  | 1   | 102   | 70-130      | 12/13/2019 1006 |
| Diisopropyl ether (IPE)            | 50                  | 54            |                  | 1   | 109   | 70-130      | 12/13/2019 1006 |
| 3,3-Dimethyl-1-butanol             | 1000                | 1200          |                  | 1   | 119   | 70-130      | 12/13/2019 1006 |
| Ethanol                            | 5000                | 5700          |                  | 1   | 113   | 70-130      | 12/13/2019 1006 |
| Ethylbenzene                       | 50                  | 51            |                  | 1   | 102   | 70-130      | 12/13/2019 1006 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 51            |                  | 1   | 101   | 70-130      | 12/13/2019 1006 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 45            |                  | 1   | 89    | 70-130      | 12/13/2019 1006 |
| Naphthalene                        | 50                  | 53            |                  | 1   | 107   | 70-130      | 12/13/2019 1006 |
| tert-butyl alcohol (TBA)           | 1000                | 1100          |                  | 1   | 107   | 70-130      | 12/13/2019 1006 |
| Toluene                            | 50                  | 51            |                  | 1   | 101   | 70-130      | 12/13/2019 1006 |
| Xylenes (total)                    | 100                 | 100           |                  | 1   | 103   | 70-130      | 12/13/2019 1006 |
| Surrogate                          | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4              |                     | 96            | 70-130           |     |       |             |                 |
| Bromofluorobenzene                 |                     | 104           | 70-130           |     |       |             |                 |
| Toluene-d8                         |                     | 101           | 70-130           |     |       |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and  $\geq$  DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MS

Sample ID: UL11083-034MS

Matrix: Aqueous

Batch: 38957

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)           | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|-------------------------|---|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 2000                 | 50000               | 50000                   |   | 50  | 96    | 70-130      | 12/13/2019 1527 |
| tert-Amyl methyl ether (TAME)      | ND                   | 2500                | 2300                    |   | 50  | 94    | 70-130      | 12/13/2019 1527 |
| Benzene                            | 2900                 | 2500                | 5300                    |   | 50  | 93    | 70-130      | 12/13/2019 1527 |
| tert-Butyl formate (TBF)           | ND                   | 13000               | 7800                    | N | 50  | 63    | 70-130      | 12/13/2019 1527 |
| 1,2-Dichloroethane                 | ND                   | 2500                | 2400                    |   | 50  | 96    | 70-130      | 12/13/2019 1527 |
| Diisopropyl ether (IPE)            | 190                  | 2500                | 2700                    |   | 50  | 102   | 70-130      | 12/13/2019 1527 |
| 3,3-Dimethyl-1-butanol             | ND                   | 50000               | 51000                   |   | 50  | 103   | 70-130      | 12/13/2019 1527 |
| Ethanol                            | ND                   | 250000              | 230000                  |   | 50  | 93    | 70-130      | 12/13/2019 1527 |
| Ethylbenzene                       | 82                   | 2500                | 2600                    |   | 50  | 100   | 70-130      | 12/13/2019 1527 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 2500                | 2300                    |   | 50  | 92    | 70-130      | 12/13/2019 1527 |
| Methyl tertiary butyl ether (MTBE) | 140                  | 2500                | 2100                    |   | 50  | 78    | 70-130      | 12/13/2019 1527 |
| Naphthalene                        | 41                   | 2500                | 2500                    |   | 50  | 97    | 70-130      | 12/13/2019 1527 |
| tert-butyl alcohol (TBA)           | ND                   | 50000               | 47000                   |   | 50  | 94    | 70-130      | 12/13/2019 1527 |
| Toluene                            | ND                   | 2500                | 2500                    |   | 50  | 101   | 70-130      | 12/13/2019 1527 |
| Xylenes (total)                    | 1000                 | 5000                | 6000                    |   | 50  | 100   | 70-130      | 12/13/2019 1527 |
| <b>Surrogate</b>                   | <b>Q</b>             | <b>% Rec</b>        | <b>Acceptance Limit</b> |   |     |       |             |                 |
| 1,2-Dichloroethane-d4              |                      | 94                  | 70-130                  |   |     |       |             |                 |
| Bromofluorobenzene                 |                      | 107                 | 70-130                  |   |     |       |             |                 |
| Toluene-d8                         |                      | 102                 | 70-130                  |   |     |       |             |                 |

## Volatile Organic Compounds by GC/MS - MSD

Sample ID: UL11083-034MD

Matrix: Aqueous

Batch: 38957

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 2000                 | 50000               | 53000         |   | 50  | 101   | 4.9   | 70-130      | 20          | 12/13/2019 1552 |
| tert-Amyl methyl ether (TAME)      | ND                   | 2500                | 2400          |   | 50  | 97    | 3.5   | 70-130      | 20          | 12/13/2019 1552 |
| Benzene                            | 2900                 | 2500                | 5300          |   | 50  | 96    | 1.6   | 70-130      | 20          | 12/13/2019 1552 |
| tert-Butyl formate (TBF)           | ND                   | 13000               | 8000          | N | 50  | 64    | 2.2   | 70-130      | 20          | 12/13/2019 1552 |
| 1,2-Dichloroethane                 | ND                   | 2500                | 2500          |   | 50  | 99    | 3.1   | 70-130      | 20          | 12/13/2019 1552 |
| Diisopropyl ether (IPE)            | 190                  | 2500                | 2800          |   | 50  | 105   | 2.7   | 70-130      | 20          | 12/13/2019 1552 |
| 3,3-Dimethyl-1-butanol             | ND                   | 50000               | 55000         |   | 50  | 110   | 6.7   | 70-130      | 20          | 12/13/2019 1552 |
| Ethanol                            | ND                   | 250000              | 260000        |   | 50  | 105   | 12    | 70-130      | 20          | 12/13/2019 1552 |
| Ethylbenzene                       | 82                   | 2500                | 2600          |   | 50  | 102   | 1.7   | 70-130      | 20          | 12/13/2019 1552 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 2500                | 2400          |   | 50  | 96    | 4.7   | 70-130      | 20          | 12/13/2019 1552 |
| Methyl tertiary butyl ether (MTBE) | 140                  | 2500                | 2200          |   | 50  | 83    | 5.7   | 70-130      | 20          | 12/13/2019 1552 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MSD

Sample ID: UL11083-034MD

Matrix: Aqueous

Batch: 38957

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|--------------------------|----------------------|---------------------|------------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Naphthalene              | 41                   | 2500                | 2500             |   | 50  | 99    | 2.5   | 70-130      | 20          | 12/13/2019 1552 |
| tert-butyl alcohol (TBA) | ND                   | 50000               | 50000            |   | 50  | 100   | 5.7   | 70-130      | 20          | 12/13/2019 1552 |
| Toluene                  | ND                   | 2500                | 2500             |   | 50  | 102   | 0.64  | 70-130      | 20          | 12/13/2019 1552 |
| Xylenes (total)          | 1000                 | 5000                | 6100             |   | 50  | 102   | 1.9   | 70-130      | 20          | 12/13/2019 1552 |
| Surrogate                | Q                    | % Rec               | Acceptance Limit |   |     |       |       |             |             |                 |
| 1,2-Dichloroethane-d4    |                      | 96                  | 70-130           |   |     |       |       |             |             |                 |
| Bromofluorobenzene       |                      | 107                 | 70-130           |   |     |       |       |             |             |                 |
| Toluene-d8               |                      | 102                 | 70-130           |   |     |       |       |             |             |                 |

## Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ39030-001

Matrix: Aqueous

Batch: 39030

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |       | 1                | 20  | 8.0  | ug/L  | 12/14/2019 1606 |
| tert-Amyl methyl ether (TAME)      | ND     |       | 1                | 10  | 0.42 | ug/L  | 12/14/2019 1606 |
| Benzene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/14/2019 1606 |
| tert-Butyl formate (TBF)           | ND     |       | 1                | 5.0 | 2.0  | ug/L  | 12/14/2019 1606 |
| 1,2-Dichloroethane                 | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/14/2019 1606 |
| Diisopropyl ether (IPE)            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/14/2019 1606 |
| 3,3-Dimethyl-1-butanol             | ND     |       | 1                | 20  | 8.0  | ug/L  | 12/14/2019 1606 |
| Ethanol                            | ND     |       | 1                | 100 | 52   | ug/L  | 12/14/2019 1606 |
| Ethylbenzene                       | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/14/2019 1606 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/14/2019 1606 |
| Methyl tertiary butyl ether (MTBE) | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/14/2019 1606 |
| Naphthalene                        | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/14/2019 1606 |
| tert-butyl alcohol (TBA)           | ND     |       | 1                | 20  | 8.0  | ug/L  | 12/14/2019 1606 |
| Toluene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/14/2019 1606 |
| Xylenes (total)                    | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/14/2019 1606 |
| Surrogate                          | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4              |        | 96    | 70-130           |     |      |       |                 |
| Bromofluorobenzene                 |        | 105   | 70-130           |     |      |       |                 |
| Toluene-d8                         |        | 103   | 70-130           |     |      |       |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ39030-002

Matrix: Aqueous

Batch: 39030

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 1100          |                  | 1   | 106   | 70-130      | 12/14/2019 1502 |
| tert-Amyl methyl ether (TAME)      | 50                  | 47            |                  | 1   | 94    | 70-130      | 12/14/2019 1502 |
| Benzene                            | 50                  | 48            |                  | 1   | 97    | 70-130      | 12/14/2019 1502 |
| tert-Butyl formate (TBF)           | 250                 | 190           |                  | 1   | 78    | 70-130      | 12/14/2019 1502 |
| 1,2-Dichloroethane                 | 50                  | 47            |                  | 1   | 94    | 70-130      | 12/14/2019 1502 |
| Diisopropyl ether (IPE)            | 50                  | 52            |                  | 1   | 103   | 70-130      | 12/14/2019 1502 |
| 3,3-Dimethyl-1-butanol             | 1000                | 1100          |                  | 1   | 113   | 70-130      | 12/14/2019 1502 |
| Ethanol                            | 5000                | 5000          |                  | 1   | 101   | 70-130      | 12/14/2019 1502 |
| Ethylbenzene                       | 50                  | 50            |                  | 1   | 99    | 70-130      | 12/14/2019 1502 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 46            |                  | 1   | 92    | 70-130      | 12/14/2019 1502 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 39            |                  | 1   | 77    | 70-130      | 12/14/2019 1502 |
| Naphthalene                        | 50                  | 48            |                  | 1   | 97    | 70-130      | 12/14/2019 1502 |
| tert-butyl alcohol (TBA)           | 1000                | 990           |                  | 1   | 99    | 70-130      | 12/14/2019 1502 |
| Toluene                            | 50                  | 49            |                  | 1   | 98    | 70-130      | 12/14/2019 1502 |
| Xylenes (total)                    | 100                 | 99            |                  | 1   | 99    | 70-130      | 12/14/2019 1502 |
| Surrogate                          | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4              |                     | 95            | 70-130           |     |       |             |                 |
| Bromofluorobenzene                 |                     | 106           | 70-130           |     |       |             |                 |
| Toluene-d8                         |                     | 102           | 70-130           |     |       |             |                 |

## Volatile Organic Compounds by GC/MS - MS

Sample ID: UL11083-037MS

Matrix: Aqueous

Batch: 39030

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1700                 | 20000               | 23000         |   | 20  | 107   | 70-130      | 12/14/2019 2102 |
| tert-Amyl methyl ether (TAME)      | ND                   | 1000                | 1000          |   | 20  | 102   | 70-130      | 12/14/2019 2102 |
| Benzene                            | 1700                 | 1000                | 2600          |   | 20  | 91    | 70-130      | 12/14/2019 2102 |
| tert-Butyl formate (TBF)           | ND                   | 5000                | 610           | N | 20  | 12    | 70-130      | 12/14/2019 2102 |
| 1,2-Dichloroethane                 | ND                   | 1000                | 1000          |   | 20  | 104   | 70-130      | 12/14/2019 2102 |
| Diisopropyl ether (IPE)            | ND                   | 1000                | 1100          |   | 20  | 114   | 70-130      | 12/14/2019 2102 |
| 3,3-Dimethyl-1-butanol             | ND                   | 20000               | 23000         |   | 20  | 113   | 70-130      | 12/14/2019 2102 |
| Ethanol                            | ND                   | 100000              | 98000         |   | 20  | 98    | 70-130      | 12/14/2019 2102 |
| Ethylbenzene                       | ND                   | 1000                | 1100          |   | 20  | 111   | 70-130      | 12/14/2019 2102 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 1000                | 990           |   | 20  | 99    | 70-130      | 12/14/2019 2102 |
| Methyl tertiary butyl ether (MTBE) | 100                  | 1000                | 920           |   | 20  | 82    | 70-130      | 12/14/2019 2102 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MS

Sample ID: UL11083-037MS

Matrix: Aqueous

Batch: 39030

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % Rec Limit | Analysis Date   |
|--------------------------|----------------------|---------------------|------------------|---|-----|-------|-------------|-----------------|
| Naphthalene              | 58                   | 1000                | 1100             |   | 20  | 104   | 70-130      | 12/14/2019 2102 |
| tert-butyl alcohol (TBA) | ND                   | 20000               | 23000            |   | 20  | 114   | 70-130      | 12/14/2019 2102 |
| Toluene                  | 12                   | 1000                | 1100             |   | 20  | 110   | 70-130      | 12/14/2019 2102 |
| Xylenes (total)          | 650                  | 2000                | 2800             |   | 20  | 107   | 70-130      | 12/14/2019 2102 |
| Surrogate                | Q                    | % Rec               | Acceptance Limit |   |     |       |             |                 |
| 1,2-Dichloroethane-d4    |                      | 92                  | 70-130           |   |     |       |             |                 |
| Bromofluorobenzene       |                      | 104                 | 70-130           |   |     |       |             |                 |
| Toluene-d8               |                      | 101                 | 70-130           |   |     |       |             |                 |

## Volatile Organic Compounds by GC/MS - MSD

Sample ID: UL11083-037MD

Matrix: Aqueous

Batch: 39030

Prep Method: 5030B

Analytical Method: 8260B

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|------------------|---|-----|-------|-------|-------------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1700                 | 20000               | 22000            |   | 20  | 104   | 2.5   | 70-130      | 20          | 12/14/2019 2128 |
| tert-Amyl methyl ether (TAME)      | ND                   | 1000                | 1000             |   | 20  | 101   | 0.87  | 70-130      | 20          | 12/14/2019 2128 |
| Benzene                            | 1700                 | 1000                | 2700             |   | 20  | 100   | 3.4   | 70-130      | 20          | 12/14/2019 2128 |
| tert-Butyl formate (TBF)           | ND                   | 5000                | 620              | N | 20  | 12    | 1.2   | 70-130      | 20          | 12/14/2019 2128 |
| 1,2-Dichloroethane                 | ND                   | 1000                | 1000             |   | 20  | 104   | 0.68  | 70-130      | 20          | 12/14/2019 2128 |
| Diisopropyl ether (IPE)            | ND                   | 1000                | 1100             |   | 20  | 113   | 0.88  | 70-130      | 20          | 12/14/2019 2128 |
| 3,3-Dimethyl-1-butanol             | ND                   | 20000               | 22000            |   | 20  | 111   | 1.1   | 70-130      | 20          | 12/14/2019 2128 |
| Ethanol                            | ND                   | 100000              | 98000            |   | 20  | 98    | 0.056 | 70-130      | 20          | 12/14/2019 2128 |
| Ethylbenzene                       | ND                   | 1000                | 1100             |   | 20  | 109   | 2.2   | 70-130      | 20          | 12/14/2019 2128 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 1000                | 990              |   | 20  | 99    | 0.39  | 70-130      | 20          | 12/14/2019 2128 |
| Methyl tertiary butyl ether (MTBE) | 100                  | 1000                | 920              |   | 20  | 82    | 0.42  | 70-130      | 20          | 12/14/2019 2128 |
| Naphthalene                        | 58                   | 1000                | 1100             |   | 20  | 104   | 0.28  | 70-130      | 20          | 12/14/2019 2128 |
| tert-butyl alcohol (TBA)           | ND                   | 20000               | 23000            |   | 20  | 112   | 1.5   | 70-130      | 20          | 12/14/2019 2128 |
| Toluene                            | 12                   | 1000                | 1100             |   | 20  | 108   | 1.1   | 70-130      | 20          | 12/14/2019 2128 |
| Xylenes (total)                    | 650                  | 2000                | 2800             |   | 20  | 108   | 0.54  | 70-130      | 20          | 12/14/2019 2128 |
| Surrogate                          | Q                    | % Rec               | Acceptance Limit |   |     |       |       |             |             |                 |
| 1,2-Dichloroethane-d4              |                      | 93                  | 70-130           |   |     |       |       |             |             |                 |
| Bromofluorobenzene                 |                      | 105                 | 70-130           |   |     |       |       |             |             |                 |
| Toluene-d8                         |                      | 103                 | 70-130           |   |     |       |       |             |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

## Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ39182-001

Matrix: Aqueous

Batch: 39182

Prep Method: 5030B

Analytical Method: 8260B

| Parameter             | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|-----------------------|--------|-------|------------------|-----|------|-------|-----------------|
| Naphthalene           | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 12/16/2019 2018 |
| Surrogate             | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4 | 98     |       | 70-130           |     |      |       |                 |
| Bromofluorobenzene    | 107    |       | 70-130           |     |      |       |                 |
| Toluene-d8            | 102    |       | 70-130           |     |      |       |                 |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ39182-002

Matrix: Aqueous

Batch: 39182

Prep Method: 5030B

Analytical Method: 8260B

| Parameter             | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % Rec Limit | Analysis Date   |
|-----------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| Naphthalene           | 50                  | 53            |                  | 1   | 106   | 70-130      | 12/16/2019 1909 |
| Surrogate             | Q                   | % Rec         | Acceptance Limit |     |       |             |                 |
| 1,2-Dichloroethane-d4 | 93                  |               | 70-130           |     |       |             |                 |
| Bromofluorobenzene    | 105                 |               | 70-130           |     |       |             |                 |
| Toluene-d8            | 101                 |               | 70-130           |     |       |             |                 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and  $\geq$  DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

**Chain of Custody  
and  
Miscellaneous Documents**






**Chain of Custody Record**

**SHEALY ENVIRONMENTAL SERVICES, INC.**  
106 Vantage Point Drive • West Columbia, SC 29172  
Telephone No. 803-791-9700 Fax No. 803-791-9111  
www.shealyab.com

Number **101727**

| Client<br><b>Terry Environmental Services</b>   |                    | Report to Contact<br><b>Kelly Cone</b>  |   | Telephone No. / E-mail<br><b>(843) 873-8200</b>   |  | Quote No.                              |          |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
|---|--------------------|---|---|---|--|--|----------|--|------|------|------|--------|--------------|---------------|------|-------|-------------------------|----------------|-------------|-----------|--|--|--|----------|--|----------------|--|-------------|--|--|--|--|--|--|----------------|--|-------------|--|--|--|--|--|--|----------------|--|-------------|--|--|--|--|--|--|----------------|--|-------------|--|--|--|--|--|--|-----------------|--|-------------|--|--|--|--|--|--|-----------------|--|-------------|--|--|--|--|--|--|----------------|--|-------------|--|--|--|--|--|--|---------------|--|-------------|--|--|--|--|--|--|----------------|--|-------------|--|--|--|--|--|--|
| Address<br><b>PO Box 25</b>   |                    | Sampler's Signature<br><i>Christopher Metz</i>  |   | Analysis (Attach list if more space is needed)  |  | Page <b>1</b> of <b>4</b>              |          |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| City<br><b>Summerville</b>  | State<br><b>SC</b> | Zip Code<br><b>29484</b>  | Printed Name<br><b>Christopher Metz</b> |   | <br><b>UL11083</b><br>K1112<br>Remarks / Location: I.C. |  |          |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| Project Name<br><b>Hotspot # 3005</b>   |                    |   |   |   |  |  |          |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| Project No.<br><b>2230.8L</b>   | P.O. No.           | Date  | Time                                    | Code  | Matrix   | No. of Containers by Preservative Type |          |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample ID / Description<br/>(Containers for each sample may be combined on one line.)</th> <th>Date</th> <th>Time</th> <th>Code</th> <th>Matrix</th> <th>Formaldehyde</th> <th>Ascorbic Acid</th> <th>None</th> <th>Other</th> </tr> </thead> <tbody> <tr> <td><b>USF#12719 FB-1 ✓</b></td> <td><b>12-9-19</b></td> <td><b>1315</b></td> <td><b>GX</b></td> <td></td> <td></td> <td></td> <td><b>3</b></td> <td></td> </tr> <tr> <td><b>MW-13 ✓</b></td> <td></td> <td><b>1346</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>MW-10 ✓</b></td> <td></td> <td><b>1410</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>MW-11 ✓</b></td> <td></td> <td><b>1424</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>MW-12 ✓</b></td> <td></td> <td><b>1506</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>MW-11R ✓</b></td> <td></td> <td><b>1532</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>MW-10R ✓</b></td> <td></td> <td><b>1605</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>MW-8R ✓</b></td> <td></td> <td><b>1647</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>MW-7 ✓</b></td> <td></td> <td><b>1828</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>MW-17 ✓</b></td> <td></td> <td><b>1859</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> |                    |   |   |   |  |  |          | Sample ID / Description<br>(Containers for each sample may be combined on one line.) | Date | Time | Code | Matrix | Formaldehyde | Ascorbic Acid | None | Other | <b>USF#12719 FB-1 ✓</b> | <b>12-9-19</b> | <b>1315</b> | <b>GX</b> |  |  |  | <b>3</b> |  | <b>MW-13 ✓</b> |  | <b>1346</b> |  |  |  |  |  |  | <b>MW-10 ✓</b> |  | <b>1410</b> |  |  |  |  |  |  | <b>MW-11 ✓</b> |  | <b>1424</b> |  |  |  |  |  |  | <b>MW-12 ✓</b> |  | <b>1506</b> |  |  |  |  |  |  | <b>MW-11R ✓</b> |  | <b>1532</b> |  |  |  |  |  |  | <b>MW-10R ✓</b> |  | <b>1605</b> |  |  |  |  |  |  | <b>MW-8R ✓</b> |  | <b>1647</b> |  |  |  |  |  |  | <b>MW-7 ✓</b> |  | <b>1828</b> |  |  |  |  |  |  | <b>MW-17 ✓</b> |  | <b>1859</b> |  |  |  |  |  |  |
| Sample ID / Description<br>(Containers for each sample may be combined on one line.)  | Date               | Time  | Code                                    | Matrix  | Formaldehyde   | Ascorbic Acid                          | None     | Other  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| <b>USF#12719 FB-1 ✓</b>   | <b>12-9-19</b>     | <b>1315</b>   | <b>GX</b>                               |   |  |  | <b>3</b> |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| <b>MW-13 ✓</b>  |                    | <b>1346</b>   |   |   |  |  |          |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| <b>MW-10 ✓</b>  |                    | <b>1410</b>   |   |   |  |  |          |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| <b>MW-11 ✓</b>  |                    | <b>1424</b>   |   |   |  |  |          |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| <b>MW-12 ✓</b>  |                    | <b>1506</b>   |   |   |  |  |          |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| <b>MW-11R ✓</b>   |                    | <b>1532</b>   |   |   |  |  |          |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| <b>MW-10R ✓</b>   |                    | <b>1605</b>   |   |   |  |  |          |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| <b>MW-8R ✓</b>  |                    | <b>1647</b>   |   |   |  |  |          |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| <b>MW-7 ✓</b>   |                    | <b>1828</b>   |   |   |  |  |          |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| <b>MW-17 ✓</b>  |                    | <b>1859</b>   |   |   |  |  |          |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| Turn Around Time Required (Prior lab approval required for expedited TAT.)<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)  |                    | Samples Observed<br><input type="checkbox"/> Refer to Client <input checked="" type="checkbox"/> Deposited by Lab |   | Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown |  | CC Requirements (Specify)              |          |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| 1. Relinquished by <i>Christopher Metz</i>  |                    | Date  | Time                                    | 1. Received by  |  | Date                                   | Time     |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| 2. Relinquished by  |                    | Date  | Time                                    | 2. Received by  |  | Date                                   | Time     |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| 3. Relinquished by  |                    | Date  | Time                                    | 3. Received by  |  | Date                                   | Time     |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| 4. Relinquished by  |                    | Date  | Time                                    | 4. Laboratory received by <i>[Signature]</i>  |  | Date                                   | Time     |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |
| Note: All samples are retained for four weeks from receipt unless other arrangements are made.  |                    |   |   | LAB USE ONLY<br>Received on Ice (Circle) <b>Yes</b> No Ice Pack Receipt Temp. <b>1.9</b> °C   |  |  |          |  |      |      |      |        |              |               |      |       |                         |                |             |           |  |  |  |          |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                 |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |               |  |             |  |  |  |  |  |  |                |  |             |  |  |  |  |  |  |

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-135 Effective Date: 08-01-2014



**Chain of Custody Record**

**SHEALY ENVIRONMENTAL SERVICES, INC.**  
106 Vantage Point Drive • West Columbia, SC 29172  
Telephone No. 803-791-9700 Fax No. 803-791-9111  
www.shealylab.com

Number **101726**

|   |                 |  |                                      |   |  |                           |   |  |
|---|-----------------|--|--------------------------------------|---|--|---------------------------|---|--|
| Client <b>Terry Environmental Services</b>  |                 | Report to Contact <b>Kelly Cone</b>  |                                      | Telephone No. / E-mail <b>(843) 873-8200</b>  |  | Quote No.                 |   |  |
| Address <b>Po Box 25</b>  |                 | Sampler's Signature <i>Christopher Metz</i>  |                                      | Analysis (Attach list if more space is needed)  |  | Page <b>2</b> of <b>4</b> |   |  |
| City <b>Summerville</b>   | State <b>SC</b> | Zip Code <b>29484</b>  | Printed Name <b>Christopher Metz</b> | <p><b>UL11083</b></p> <p>K1802</p> <p>Remarks / Cooler I.D.</p>   |  |                           |   |  |
| Project Name <b>Hotspot # 3005</b>  |                 |  |                                      |   |  |                           |   |  |
| Project No <b>2230.8L</b>   | P.O. No.        |  | Matrix                               |   | No. of Containers by Preservative Type |                           |   |  |
| Sample ID / Description<br><small>(Containers for each sample may be combined on one line)</small>  | Date            | Time   | Matrix                               | None  | Formaldehyde                           | MSA                       | MSA                                     |  |
| #12719 MW-18 ✓  | 12-9-19         | 1910   | GX                                   |   |  | 3                         |   |  |
| FB-2 ✓  | 12-10-19        | 0813   |                                      |   |  |                           |   |  |
| MW-14 ✓   |                 | 0826   |                                      |   |  |                           |   |  |
| MW-15 ✓   |                 | 0855   |                                      |   |  |                           |   |  |
| MW-24 ✓   |                 | 0951   |                                      |   |  |                           |   |  |
| DW-3 ✓  |                 | 1010   |                                      |   |  |                           |   |  |
| MW-23 ✓   |                 | 1053   |                                      |   |  |                           |   |  |
| MW-22 ✓   |                 | 1103   |                                      |   |  |                           |   |  |
| MW-4 ✓  |                 | 1156   |                                      |   |  |                           |   |  |
| MW-9 ✓  |                 | 1320   |                                      |   |  |                           |   |  |
| Turn Around Time Required (Prior lab approval required for expedited TAT)<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify) |                 | Sample Disposal<br><input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposed by Lab |                                      | Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown |  |                           | OC Requirements (Specify)               |  |
| 1. Relinquished by <i>Christopher Metz</i>  |                 | Date: <b>12-11-19</b>  | Time: <b>1558</b>                    | 1. Received by  |  |                           | Date: _____ Time: _____                 |  |
| 2. Relinquished by  |                 | Date: _____  | Time: _____                          | 2. Received by  |  |                           | Date: _____ Time: _____                 |  |
| 3. Relinquished by  |                 | Date: _____  | Time: _____                          | 3. Received by  |  |                           | Date: _____ Time: _____                 |  |
| 4. Relinquished by  |                 | Date: _____  | Time: _____                          | 4. Laboratory Received by <i>[Signature]</i>  |  |                           | Date: <b>12/11/19</b> Time: <b>1558</b> |  |
| Note: All samples are retained for four weeks from receipt unless other arrangements are made.  |                 |  |                                      | LAB USE ONLY<br>Received on ice (Circle) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Ice Pack Receipt Temp <b>1.9</b> °C  |  |                           |   |  |

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

**SHEALY ENVIRONMENTAL SERVICES, INC.**



**Chain of Custody Record**

**SHEALY ENVIRONMENTAL SERVICES, INC.**  
106 Vantage Point Drive • West Columbia, SC 29172  
Telephone No. 803-791-9700 Fax No. 803-791-9111  
www.shealylab.com

Number **101725**

|  |                    |  |   |   |   |                           |              |                           |  |
|--|--------------------|--|---|---|---|---------------------------|--------------|---------------------------|--|
| Client<br><b>Terry Environmental Services</b>  |                    | Report to Contact<br><b>Kelly Cone</b> |   | Telephone No. / E-mail<br><b>(843) 873-8200</b>   |   | Quote No.<br>-            |              |                           |  |
| Address<br><b>PO Box 25</b>  |                    | Signature<br><i>Christopher Metz</i>   |   | Analysis (Attach list if more space is needed)  |   | Page <b>3</b> of <b>4</b> |              |                           |  |
| City<br><b>Summerville</b>   | State<br><b>SC</b> | Zip Code<br><b>29484</b>               | Printed Name<br><b>Christopher Metz</b>   |   | <p><b>UL11083</b></p> <p>4M2</p>  |                           |              |                           |  |
| Project Name<br><b>HotSpot # 3005</b>  |                    |  |   |   |   |                           |              |                           |  |
| Project No.<br><b>2230.SL</b>  | P.O. No.           |  | Matrix  |   | No. of Containers by Preservative Type  |                           |              |                           |  |
| Samples ID / Description   |                    | Date                                   | Time  | Matrix  | None  | Formal                    | Other        |                           |  |
| <small>(Containers for each sample may be contained on one line)</small>   |                    |  |   |   |   |                           |              |                           |  |
| #12719   | MW-1D ✓            | 12-10-19                               | 1405  | G-X   |   |                           |              |                           |  |
|  | MW-19 ✓            |  | 1505  |   |   |                           |              |                           |  |
|  | MW-20 ✓            |  | 1520  |   |   |                           |              |                           |  |
|  | MW-21 ✓            |  | 1532  |   |   |                           |              |                           |  |
|  | MW-25 ✓            |  | 1558  |   |   |                           |              |                           |  |
|  | DW-2 ✓             |  | 1642  |   |   |                           |              |                           |  |
|  | MW-2R ✓            |  | 1723  |   |   |                           |              |                           |  |
|  | FB-3 ✓             | 12-11-19                               | 0853  |   |   |                           |              |                           |  |
|  | MW-6 ✓             |  | 0945  |   |   |                           |              |                           |  |
|  | RW-2 ✓             |  | 1004  |   |   |                           |              |                           |  |
| Turn Around Time Required (Prior lab approval required for expedited TAT.)<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify) |                    |  | Sample Disposal<br><input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Dispose by Lab |   | Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown |                           |              | QC Requirements (Specify) |  |
| 1. Relinquished by<br><i>Christopher Metz</i>  |                    | Date<br>12/11/19                       | Time<br>1538  | 1. Received by  |   | Date                      | Time         |                           |  |
| 2. Relinquished by   |                    | Date                                   | Time  | 2. Received by  |   | Date                      | Time         |                           |  |
| 3. Relinquished by   |                    | Date                                   | Time  | 3. Received by  |   | Date                      | Time         |                           |  |
| 4. Relinquished by   |                    | Date                                   | Time  | 4. Laboratory received by<br><i>[Signature]</i>   |   | Date<br>12/11/19          | Time<br>1558 |                           |  |
| Note: All samples are retained for four weeks from receipt unless other arrangements are made.   |                    |  |   | LAB USE ONLY<br>Received on ice (Circle) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Ice Pack |   | Receipt Temp <b>19</b> °C |              |                           |  |

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-103 Effective Date: 09-01-2014



**Chain of Custody Record**

**SHEALY ENVIRONMENTAL SERVICES, INC.**  
106 Vantage Point Drive • West Columbia, SC 29172  
Telephone No. 803-791-9700 Fax No. 803-791-9111  
www.shealylab.com

Number **101723**

|  |                  |   |                   |   |  |   |                   |
|--|------------------|---|-------------------|---|--|---|-------------------|
| Client: <b>Terry Environmental Services</b>  |                  | Report to Contact: <b>Kelly Cone</b>  |                   | Telephone No. / E-mail: <b>(843) 873-8200</b>   |  | Quote No.   |                   |
| Address: <b>PO Box 25</b>  |                  | Signature: <i>Christopher Metz</i>  |                   | Analysis (Attach list if more space is needed)  |  | Page <b>4</b> of <b>4</b>   |                   |
| City: <b>Summerville</b>   | State: <b>SC</b> | Printed Name: <b>Christopher Metz</b>   |                   |   |  |   |                   |
| Project Name: <b>Hotspot #3005</b>   |                  |   |                   |   |  |   |                   |
| Project No.: <b>2230-8L</b>  | P.O. No.         |   |                   |   |  |   |                   |
| Swaps: ID / Description  |                  | Date  | Time              | Matrix  | No. of Containers by Preservative Type |   |                   |
| <small>(Containers for each sample may be combined on one line.)</small>                       |                  |   |                   |   | None                                   | Formaldehyde  | Other             |
| #12719   | MW-1R ✓          | 12-11-19  | 1040              | G X   |  | 3   | 3                 |
|  | MW-3R ✓          |   | 1105              |   |  |   |                   |
|  | RW-3 ✓           |   | 1118              |   |  |   |                   |
|  | RW-3 Dup ✓       |   | 1120              |   |  |   |                   |
|  | MW-5 ✓           |   | 1145              |   |  |   |                   |
|  | MW-16 ✓          |   | 1205              |   |  |   |                   |
|  | MW-16 Dup ✓      |   | 1207              |   |  |   |                   |
|  | SW-1 ✓           |   | 1240              |   |  |   |                   |
|  | Trip Blank ✓     |   |                   |   |  |   |                   |
| Turn Around Time Required (Prior lab approval required for expedited TAT.)                     |                  | Sample Disposal   |                   | Possible Hazard Identification  |  | QC Requirements (Specify)   |                   |
| <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)           |                  | <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab |                   | <input checked="" type="checkbox"/> Non-hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown |  |   |                   |
| 1. Relinquished by: <i>Christopher Metz</i>  |                  | Date: <b>12-11-19</b>   | Time: <b>1558</b> | 1. Received by:   |  | Date:   | Time:             |
| 2. Relinquished by:  |                  | Date:   | Time:             | 2. Received by:   |  | Date:   | Time:             |
| 3. Relinquished by:  |                  | Date:   | Time:             | 3. Received by:   |  | Date:   | Time:             |
| 4. Relinquished by:  |                  | Date:   | Time:             | 4. Laboratory received by: <i>[Signature]</i>   |  | Date: <b>12/11/19</b>   | Time: <b>1558</b> |
| Note: All samples are retained for four weeks from receipt unless other arrangements are made. |                  |   |                   | LAB USE ONLY  |  | Received on Ice (Circle) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Ice Pack Receipt Temp: <b>1.9</b> °C |                   |

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F AD-123 Filing Date: 08-01-2014

**SHEALY ENVIRONMENTAL SERVICES, INC.**

**UL11083**  
K1002  
Form 10/1/11

# SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.  
Document Number: ME0018C-14

Page 1 of 1  
Effective Date: 8/2/2018

## Sample Receipt Checklist (SRC)

Client: Terry Envl. Services      Cooler Inspected by/date: LKH / 12-11-2019      Lot #: UL11083

|  |   |
|--|---|
| Means of receipt: <input type="checkbox"/> SESI <input checked="" type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____ |   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | 1. Were custody seals present on the cooler?  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 2. If custody seals were present, were they intact and unbroken?  |
| pH Strip ID: NA      Chlorine Strip ID: NA      Tested by: NA  |   |
| Original temperature upon receipt / Derived (Corrected) temperature upon receipt      %Solid Snap-Cup ID: NA<br>1.9 / 1.9 °C NA / NA °C NA / NA °C NA / NA °C                                |   |
| Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles      IR Gun ID: 6      IR Gun Correction Factor: 0 °C                                 |   |
| Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None                             |   |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified?<br>PM was Notified by: phone / email / face-to-face (circle one).               |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 4. Is the commercial courier's packing slip attached to this form?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 5. Were proper custody procedures (relinquished/received) followed?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 6. Were sample IDs listed on the COC?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 7. Were sample IDs listed on all sample containers?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 8. Was collection date & time listed on the COC?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 9. Was collection date & time listed on all sample containers?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 10. Did all container label information (ID, date, time) agree with the COC?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 11. Were tests to be performed listed on the COC?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 13. Was adequate sample volume available?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | 15. Were any samples containers missing/excess (circle one) samples Not listed on COC?  |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA  | 16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 17. Were all DRO/metals/nutrient samples received at a pH of < 2?   |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 19. Were all applicable NH <sub>3</sub> /TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA  | 20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS? |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | 21. Was the quote number listed on the container label? If yes, Quote # NA  |

**Sample Preservation** (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA  
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>) with Shealy ID: NA

SR barcode labels applied by: LKH      Date: 12-11-2019

Comments:

---



---



---



---



---

**APPENDIX C**

**Tax Map  
(Not Applicable)**

**APPENDIX D**

**Soil Boring/Field Screening Logs  
(Not Applicable)**

**APPENDIX E**

**Well Completion Logs/SCDHEC 1903 Forms  
(Not Applicable)**



**APPENDIX F**

**Aquifer Evaluation Forms  
(Not Applicable)**

**APPENDIX G**

**Disposal Manifests**

# US Water Recovery

|   |  |   |  |
|---|--|---|--|
| <b>Non-Hazardous Manifest: Waste Water or Drums</b>   |  | <b>Number:</b>  |  |
| 1. Generator's EPA ID# (if applicable):   |  | Waste ID Number:  |  |
| 2. Generator's Name and Mailing Address:<br>Hot Spot # 300's<br>107 Hampton Street<br>Chesnee, SC   |  | Phone ( )<br>P O #: 2230.8L CST#12719   |  |
| 3. Agent of Generator and Mailing Address:<br>Terry Environmental Services<br>PO Box 25<br>Summerville, SC 29484  |  | Phone (843) 873-8200<br>P O #:  |  |
| 4. Transporter Company Name: ↓  |  | Phone ( )   |  |
| Truck & Trailer License Number:   |  |   |  |
| 5. Transporter U.S. EPA ID#:  |  |   |  |
| 6. Facility Name and Site Address:<br>US Water Recovery<br>511 Old Mt. Holly Rd.<br>Goose Creek, SC 29445   |  | Mailing Address:<br>US Water Recovery<br>511 Old Mt. Holly Rd.<br>Goose Creek, SC 29445 |  |
| 7. Facility U.S. EPA ID#:   |  |   |  |
| Start Level:  |  | End Level:  |  |
| Total Gallons:  |  | Tank Number   |  |
| 8. U.S. DOT Description   |  | Container   |  |
|   |  | No. Type  |  |
| a. Non-Hazardous, non-regulated waste water   |  | gal 30  |  |
| 9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility. |  |   |  |
| Printed/Typed Name: Christopher Metz  |  | Signature: Christopher Metz   |  |
|   |  | Date: 12/12/19  |  |
| 10. Transporter Acknowledgement of Receipt of Materials   |  |   |  |
| Printed/Typed Name:   |  | Signature:  |  |
|   |  | Date:   |  |
| 11. Discrepancy Indication space:   |  |   |  |
| 12. Facility Owner or Operator: Certification of Receipt of Materials   |  |   |  |
| Printed/Typed Name: Dan Ward  |  | Signature: Dan Ward   |  |
|   |  | Date: 12-31-19  |  |

White - Facility      Yellow - Office      Pink - Transporter      Blue - Generator

22468

**APPENDIX H**

**Local Zoning Regulations  
(Not Applicable)**

**APPENDIX I**

**Fate and Transport Modeling Data  
(Not Applicable)**

**APPENDIX J**

**Access Agreements  
(Not Applicable)**

## **APPENDIX K**

### **Data Verification Checklist**

## Contractor Checklist – Hot Spot #3005

**UST Permit #12719 - TERRY Project #2230.8L**

| Item # | Item   | Yes | No | N/A |
|--------|--|-----|----|-----|
| 1      | Is Facility Name, Permit #, and address provided?  | X   |    |     |
| 2      | Is UST Owner/Operator name, address, & phone number provided?  | X   |    |     |
| 3      | Is name, address, & phone number of current property owner provided?   | X   |    |     |
| 4      | Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?             | X   |    |     |
| 5      | Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?     |     |    | X   |
| 6      | Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided? | X   |    |     |
| 7      | Has the facility history been summarized?  | X   |    |     |
| 8      | Has the regional geology and hydrogeology been described?  | X   |    |     |
| 9      | Are the receptor survey results provided as required?  |     |    | X   |
| 10     | Has current use of the site and adjacent land been described?  | X   |    |     |
| 11     | Has the site-specific geology and hydrogeology been described?   | X   |    |     |
| 12     | Has the primary soil type been described?  |     |    | X   |
| 13     | Have field screening results been described?   |     |    | X   |
| 14     | Has a description of the soil sample collection and preservation been detailed?  |     |    | X   |
| 15     | Has the field screening methodology and procedure been detailed?   |     |    | X   |
| 16     | Has the monitoring well installation and development dates been provided?  |     |    | X   |
| 17     | Has the method of well development been detailed?  |     |    | X   |
| 18     | Has justification been provided for the locations of the monitoring wells?   |     |    | X   |
| 19     | Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?   | X   |    |     |
| 20     | Has the groundwater sampling methodology been detailed?  | X   |    |     |
| 21     | Have the groundwater sampling dates and groundwater measurements been provided?  | X   |    |     |
| 22     | Has the purging methodology been detailed?   | X   |    |     |
| 23     | Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?                    | X   |    |     |
| 24     | If free-product is present, has the thickness been provided?   | X   |    |     |
| 25     | Does the report include a brief discussion of the assessment done and the results?   | X   |    |     |
| 26     | Does the report include a brief discussion of the aquifer evaluation and results?  |     |    | X   |
| 27     | Does the report include a brief discussion of the fate & transport models used?  |     |    | X   |
| 28     | Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)  |     |    | X   |
| 29     | Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)   |     |    | X   |
| 30     | Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)   |     |    | X   |
| 31     | Have recommendations for further action been provided and explained?   | X   |    |     |
| 32     | Has the soil analytical data for the site been provided in tabular format? (Table 1)   |     |    | X   |
| 33     | Has the potentiometric data for the site been provided in tabular format? (Table 2)  | X   |    |     |
| 34     | Has the current and historical laboratory data been provided in tabular format?  | X   |    |     |



| Item # | Item   | Yes        | No | N/A        |
|--------|--|------------|----|------------|
| 35     | Have the aquifer characteristics been provided and summarized on the appropriate form?   |            |    | X          |
| 36     | Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)  |            |    | X          |
| 37     | Has the topographic map been provided with all required elements? (Figure 1)   | X          |    |            |
| 38     | Has the site base map been provided with all required elements? (Figure 2)   | X          |    |            |
| 39     | Have the CoC site maps been provided? (Figure 3 & Figure 4)  | X<br>Fig 4 |    | X<br>Fig 3 |
| 40     | Has the site potentiometric map been provided? (Figure 5)  | X          |    |            |
| 41     | Have the geologic cross-sections been provided? (Figure 6)   |            |    | X          |
| 42     | Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)                             |            |    | X          |
| 43     | Has the site survey been provided and include all necessary elements? (Appendix A)   |            |    | X          |
| 44     | Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B) | X          |    |            |
| 45     | Is the laboratory performing the analyses properly certified?  | X          |    |            |
| 46     | Has the tax map been included with all necessary elements? (Appendix C)  |            |    | X          |
| 47     | Have the soil boring/field screening logs been provided? (Appendix D)  |            |    | X          |
| 48     | Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)   |            |    | X          |
| 49     | Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)   |            |    | X          |
| 50     | Have the disposal manifests been provided? (Appendix G)  | X          |    |            |
| 51     | Has a copy of the local zoning regulations been provided? (Appendix H)   |            |    | X          |
| 52     | Has all fate and transport modeling been provided? (Appendix I)  |            |    | X          |
| 53     | Have copies of all access agreements obtained by the contractor been provided? (Appendix J)  |            |    | X          |
| 54     | Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?       | X          |    |            |

Explanation for missing and incomplete information?

Not Applicable for the current directive.



AUG 02 2021

RL JORDAN OIL CO OF NC  
PO BOX 2527  
SPARTANBURG SC 29304-2527

Re: **Aggressive Fluid and Vapor Recovery Notice to Proceed**  
Hot Spot #3005, 107 Hampton St., Chesnee, SC  
UST Permit #12719; CA #64088  
Release reported August 4, 2003  
Monitoring Report received January 22, 2021  
Spartanburg County

To Whom It May Concern:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report which documents free-phase product (FPP) or Chemicals of Concern (CoC) in the subsurface as a result of the above referenced release.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations R.61-92, an Aggressive Fluid and Vapor Recovery (AFVR) event may proceed immediately upon receipt of this letter as outlined in this directive and the current revision of the UST Quality Assurance Program Plan (QAPP). **Please note that the most recent revision of the UST QAPP went into effect on August 1, 2021.** Two 96-hour event utilizing monitoring wells RW-1 and RW-2 should be performed. The target stinger depth is 30. Off-gas treatment will be necessary. For the most updated AFVR procedures, refer to Section IV.g of the UST QAPP. **Any variance from the procedures will be approved on a site specific basis and should be submitted to the UST Division in writing.**

**Please notify the Project Manager as soon as the event has been scheduled.**

**The AFVR Report should be submitted within 90 days from the date of this correspondence.** Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval is obtained from the UST Management Division. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by DHEC for the cost to be paid. DHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, DHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the QAPP. If CoC concentrations, based on laboratory analysis, are below Risk Based Screening Levels, please contact the Project Manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence concerning this site, please reference the UST Permit number above. Should you have any questions, please contact me by phone at (803) 898-0655, by fax at (803) 898-0673, or by email at [hofferqm@dhec.sc.gov](mailto:hofferqm@dhec.sc.gov).

Sincerely,



Quincy Hoffer, Hydrogeologist  
Corrective Action & Quality Assurance Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Terry Environmental Services Inc., PO Box 25, Summerville, SC 29484 (w/ enc)  
Technical file (w/ enc)

Approved Cost Agreement

64088

Facility: 12719 HOT SPOT 3005

HOFFERQM

PO Number:

| <u>Task / Description</u>   | <u>Categories</u> | <u>Item Description</u>          | <u>Qty / Pct</u> | <u>Unit Price</u> | <u>Amount</u>    |
|-----------------------------|-------------------|----------------------------------|------------------|-------------------|------------------|
| S REPORT PROJECT MANAGEMENT |                   | S REPORT PREP & PROJ. MANAGEMENT | 0.1200           | \$48,335.890      | 5,800.31         |
| W AFVR                      |                   | 14 AFVR SITE RECONNAISSANCE      | 1.0000           | \$216.870         | 216.87           |
|                             |                   | 16 AFVR EFFLUENT DISPOSAL        | 40,000.0000      | \$0.470           | 18,800.00        |
|                             |                   | 17 AFVR MOB - DEMOB              | 2.0000           | \$417.730         | 835.46           |
|                             |                   | 4 96 HOUR EVENT                  | 2.0000           | \$13,409.520      | 26,819.04        |
|                             |                   | 8 OFF GAS TREATMENT 96 HOUR      | 2.0000           | \$832.260         | 1,664.52         |
|                             |                   | <b>Total Amount</b>              |                  |                   | <b>54,136.20</b> |

## UST # 12719: AFVR Audit

Vincent, Malayika M. <vincenMM@dhec.sc.gov>

Wed 10/13/2021 15:31

To: kcone@terryenvironmental.com <kcone@terryenvironmental.com>

Cc: Hoffer, Quincy M. <hofferqm@dhec.sc.gov>



📎 1 attachments (238 KB)

12719\_AFVR\_101221.pdf;

Good afternoon Kelly,

Please find the attached AFVR audit for the event at the referenced site conducted 10/12/2021. The audit was mostly satisfactory with a couple issues.

1. The technician could not tell us where the ground was for the unit and he said for the time being, the tires would be the ground. As per the UST QAPP Revision 4.0, page 67 states "8) Connect the AFVR unit to a grounded metal object or equipment chassis with a ground lead to ensure that static electricity does not result in an explosion hazard." I would suggest grounding the unit to the trailer itself for future events!
2. The off-gas stack didn't seem like it was at least 10 ft above ground surface. As per the UST QAPP Revision 4.0, page 67 states "13) If the air emissions are anticipated to have an adverse impact in the vicinity of the AFVR, the UST Management Division may require off-gas treatment. The off-gas treatment must have a minimum 80% reduction rate per required interval measurement. All AFVR units or when required off-gas treatment units must have a post emissions stack that is a minimum of 10 feet above ground surface."

Please let me know if you have any questions by October 27, 2021.

Thank you!

Malayika

### Malayika Vincent

Environmental Health Manager II

Corrective Action & Quality Assurance

Underground Storage Tank Division

Bureau of Land and Waste Management

**S.C. Dept. of Health & Environmental Control**

Office: (803) 898-0634

Mobile: (803) 922-6026

Fax: (803) 898-0673

Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)





AFVR Audit Form
Underground Storage Tank Management Division

RESULTS:
Satisfactory
Issues

Date: 10/12/2021 Project Manager: Quincy Hoffer DHEC Field Staff: Malayika Vincent
Contractor: Terry Environmental Contractor Field Staff: Jake Marek
Site Number: 12719 Site Name: Hot Spot # 3005
Time Arrived at Site: 1254 Time Leaving Site: 1321 Weather Conditions: Sunny, hot



- 1. Operator on site? YES NO
2. Proper safety devices employed... YES NO
3. Correct extraction well(s) being used? YES NO RW-1, RW-2
4. Vacuum gauge(s) installed on extraction well(s)? YES NO
5. Vacuum gauge(s) installed on adjacent monitoring well(s)? YES NO using 3 MWS: MW2R, 7, 9
6. AFVR unit connected to grounded metal object? YES NO tires...
7. Stinger(s) set at target depth(s)? YES NO fluctuating after reaching target depth.
8. Other extraction and monitoring well(s) sealed? YES NO
9. Data recorded at appropriate time intervals? YES NO Last two recorded times? YES NO
10. Off-gas treatment (if applicable)? YES NO
11. Complete Data Records:
- Stinger Depth
- Airflow Rate/Velocity
- Vacuum Readings for Extraction Well(s)
- Vacuum Readings for Adjacent Monitoring Well(s)
- Water Level Measurement for Adjacent Monitoring Well(s)
- Pre-treatment Vapor Concentration Measurements
- Post-treatment Vapor Concentration Measurements } some measurements don't seem to meet at least 80% reduction (\*\*)

Signature: [Signature] Date: 10/12/2021

Notes:
(\*\*) @ 1600 10/11: 38.7 (Pre), 26.5 (Post) } these were at about 30', Jake
@ 1800 10/11: 59.7 (Pre), 48.5 (Post) } brought the stinger up to 23-24' where
readings were higher, reduction %
in that area was at least 80% Pre vs. Post!

Notes (continued): Arrived onsite at 1254, Jake came over to meet us.

I went through the records and then inquired about how/where the AFVR unit was grounded. Jake called his supervisor because he wasn't sure, and then said for the time being, it would be via <sup>grounded</sup> the tie.

I would suggest grounding the unit to the trailer itself to avoid generation of static electricity for future events!

It seemed like the optimal zone for cleanup was ~23-24'.

### UST AFVR AUDIT FORM

- Purpose of the form is to record information gathered during an audit of AFVR events.
- DHEC UST Project Managers and Field Staff.
- Item-by-item instructions for completing the form.
  - Fill in all Site Information boxes.
  - Answer all questions and record any applicable information in the blanks.
  - Sign and date the form.
  - Record any applicable notes.
- Form is scanned and saved electronically – Record Group Number 169, Retention Schedule 13300

## Document Receipt Information

Hard Copy

CD

Email

Date Received 10-28-21

Permit Number 12719

Project Manager Quincy Hoffer

Name of Contractor TES

Docket Number 1054ech

Document Title AFVR Events Report

Scanned \_\_\_\_\_



**AGGRESSIVE FLUID VAPOR RECOVERY(AFVR) EVENTS REPORT  
HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719  
CA #64088**

Prepared For:

**SCDHEC UNDERGROUND STORAGE TANK PROGRAM  
2600 BULL ST.  
COLUMBIA, SC 29201**

Submitted By:

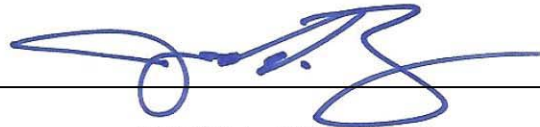


P.O. BOX 25  
SUMMERVILLE, SOUTH CAROLINA 29484  
(843) 873-8200  
Fax (843) 225-3472  
[www.terryenvironmental.com](http://www.terryenvironmental.com)

UST CONTRACTOR #UCC-0223  
TERRY PROJECT #2230.8M



**KELLY K. CONE, PG  
Vice President, Assessment Services**



**JASON A. TERRY, PG  
President**

**OCTOBER 2021**



**TABLE OF CONTENTS**

| SECTION | DESCRIPTION   | PAGE |
|---------|---|------|
| A.      | INTRODUCTION  | 1    |
| 1.      | UST Facility and Owner/Operator Information               | 1    |
| 2.      | Property Owner Information                                | 1    |
| 3.      | Contractor Information                                    | 1    |
| 4.      | Well Driller Information                                  | 1    |
| 5.      | Laboratory Information                                    | 1    |
| 6.      | Site History  | 1    |
| 7.      | Regional Geology and Hydrogeology                         | 2    |
| B.      | RECEPTOR SURVEY & SITE DATA                               | 3    |
| 1.      | Receptor Survey Results                                   | 3    |
| 2.      | Current Site and Adjacent Land Use                        | 3    |
| 3.      | Site-Specific Geology and Hydrogeology                    | 3    |
| C.      | SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY | 4    |
| D.      | MONITORING WELL INFORMATION                               | 4    |
| E.      | GROUNDWATER DATA  | 4    |
| F.      | AFVR INFORMATION  | 5    |
| 1.      | Scope of Work   | 5    |
| 2.      | AFVR Emissions Table                                      | 5    |
|         | F-2 AFVR Emissions Table (Event 1)                        | 5    |
|         | F-2 AFVR Emissions Table (Event 2)                        | 5    |
|         | F-2B Extraction Well Stinger Depth Table (Event 1)        | 5    |
|         | F-2B Extraction Well Stinger Depth Table (Event 2)        | 5    |
| 3.      | Vacuum Data Table   | 5    |
|         | F-3 Vacuum and Potentiometric Data Table (Event 1)        | 5    |
|         | F-3 Vacuum and Potentiometric Data Table (Event 2)        | 5    |
| 4.      | Volume of Water Recovered                                 | 5    |
| 5.      | Volume of Product Recovered                               | 5    |
| 6.      | Mass of Petroleum Recovered as Vapor                      | 5    |
| 7.      | Free Product Thickness Table                              | 6    |
|         | F-7 Free Product Thickness Table (Event 1)                | 6    |
|         | F-7 Free Product Thickness Table (Event 2)                | 6    |
| 8.      | AFVR Event Map  | 6    |
|         | Figure F-8 AFVR Map (Event 1)                             | 6    |
|         | Figure F-8 AFVR Map (Event 2)                             | 6    |
| 9.      | Recovery Water Disposal                                   | 6    |
| G.      | GRANULATED ACTIVATED CARBON INSTALLATION                  | 7    |
| H.      | RESULTS & DISCUSSION                                      | 8    |
| 1.      | Assessment Results  | 8    |
| 2.      | Aquifer Evaluation Results                                | 8    |
| 3.      | Fate & Transport Results                                  | 8    |
| 4.      | Tier 1 Risk Evaluation                                    | 8    |
| 5.      | Tier 2 Risk Evaluation                                    | 8    |
| I.      | TABLES  | 9    |
| 1.      | Soil Analytical Data                                      | 9    |

**TABLE OF CONTENTS (cont.)**

| SECTION | DESCRIPTION  | PAGE |
|---------|--|------|
| 2.      | Potentiometric Data _____                                | 9    |
| 3.      | Laboratory Data _____                                    | 9    |
| 4.      | Aquifer Characteristics _____                            | 9    |
| 5.      | Site Conceptual Model _____                              | 9    |
| J.      | FIGURES _____  | 10   |
| 1.      | Topographic Map _____                                    | 10   |
|         | Figure 1 Topographic Map _____                           | 10   |
| 2.      | Site Base Map _____                                      | 10   |
|         | Figure 2 Site Base Map _____                             | 10   |
| 3.      | CoC Site Maps _____                                      | 10   |
|         | Figure 3 Soil CoC Map _____                              | 10   |
|         | Figure 4 Groundwater CoC Map _____                       | 10   |
| 4.      | Site Potentiometric Maps _____                           | 10   |
|         | Figure 5 Site Potentiometric Map _____                   | 10   |
| 5.      | Geologic Cross-Sections _____                            | 10   |
| 6.      | Predicted Migration and Attenuation of CoCs _____        | 10   |
| K.      | Appendices _____   | 11   |
| 1.      | Appendix A: Site Survey _____                            | 11   |
| 2.      | Appendix B: Sampling Logs and Laboratory Data _____      | 11   |
| 3.      | Appendix C: Tax Map _____                                | 11   |
| 4.      | Appendix D: Soil Boring/Field Screening Logs _____       | 11   |
| 5.      | Appendix E: Well Completion Logs/SCDHEC 1903 Forms _____ | 11   |
| 6.      | Appendix F: Aquifer Evaluation Forms _____               | 11   |
| 7.      | Appendix G: Disposal Manifests _____                     | 11   |
| 8.      | Appendix H: Local Zoning Regulations _____               | 11   |
| 9.      | Appendix I: Fate and Transport Modeling Data _____       | 11   |
| 10.     | Appendix J: Access Agreements _____                      | 11   |
| 11.     | Appendix K: Data Verification Checklist _____            | 11   |

**A. INTRODUCTION**
**1. UST Facility and Owner/Operator Information**

Facility Name (Permit #): Hot Spot #3005 (12719)  
 Facility Address: 107 Hampton Street, Chesnee, South Carolina 29323  
 Facility Telephone: 864-461-4147  
  
 Owner/ Operator Name: RL Jordan Oil Co. of NC (Contact: Ms. Cyndi Suttles)  
 Owner/ Operator Address: PO Box 2527, Spartanburg, SC 29304  
 Owner/ Operator Telephone: 864-585-2784

**2. Property Owner Information**

Name: EJ Enterprises Inc.  
 Address: PO Box 2527, Spartanburg, SC 29304  
 Telephone: 864-585-2784

**3. Contractor Information**

Name: Terry Environmental Services, Inc.  
 Address: P.O. Box 25, Summerville, South Carolina 29484  
 Telephone: 843-873-8200  
 Certification: UCC-0223

**4. Well Driller Information**

Not Applicable

**5. Laboratory Information**

Not Applicable

**6. Site History**

Date Release Reported to SCDHEC: August 4, 2003  
 Estimated Quantity of Product Released: Unknown  
 Cause of Release: Unknown  
 Current use of Facility: Gas Station and Convenience Store (Hot Spot)

| UST #          | Product           | Date Installed | Currently In Use<br>(Yes or No) | If not in use, Date<br>Removed |
|----------------|-------------------|----------------|---------------------------------|--------------------------------|
| 1 (12,000 gal) | Unleaded Gasoline | 8/6/1990       | Yes                             | -                              |
| 2 (8,000 gal)  | Plus Gasoline     | 8/6/1990       | Yes                             | -                              |
| 3 (8,000 gal)  | Premium Gasoline  | 8/6/1990       | Yes                             | -                              |
| 4 (8,000 gal)  | Diesel            | 8/6/1990       | Yes                             | -                              |
| 5 (8,000 gal)  | Kerosene          | 8/6/1990       | Yes                             | -                              |
| 6 (12,000 gal) | Diesel            | 10/3/1991      | Yes                             | -                              |

Other Releases at this site? Yes XXXX No \_\_\_\_\_  
 If yes, Date Release Reported to SCDHEC November 3, 1993  
**Status of Release:** Feb. 2002 Brook & Medlock selected as CA contractor.  
 No Further Action Date: N/A

## **7. Regional Geology and Hydrogeology**

The Hot Spot #3005 site is located in Chesnee which lies in the Western Piedmont Province of South Carolina. The western piedmont is comprised of the Inner Piedmont block, the Smith River allochthon, and the Sauratwon Mountain window. The Inner Piedmont block encompasses the Inner Piedmont belt and the Chauga belt, and consists of a composite stack of thrust sheets containing a variety of gneisses, schists, amphibolites, sparse ultramafic bodies, and intrusive granitoids. (The Geology of the Carolinas, Horton & Zullo, 1991)

The Hot Spot #3005 site is located in the Inner Piedmont Belt which is characterized by granitic, biotitic, and hornblendic rocks. Generally, wells drilled in the Inner Piedmont Belt of Spartanburg County yield 1 to 250 gallons per minute (gpm). The highest average yields (35 gpm) were obtained from wells drilled in biotite gneiss and migmatite with the lowest average yields from wells drilled in quartz monzonite. The average yield of all wells inventoried was 20 gpm. The ground waters in Spartanburg County are of good to excellent quality for most domestic, municipal, and industrial uses. (USGS/SCWRC Report 3: Water Resources of Spartanburg County, South Carolina, 1970)

## **B. RECEPTOR SURVEY & SITE DATA**

### **1. Receptor Survey Results**

A receptor survey was not conducted during this scope of work.

### **2. Current Site and Adjacent Land Use**

Description of current site use (commercial, residential, rural, etc.):

Commercial; the site is operating as Hot Spot #3005, a gas station and convenience store.

Description of adjacent land use (commercial, residential, rural, etc.):

Commercial and residential.

UST sites within a 1,000-foot radius:

10122 Free Time Convenience Store

The site is located at 107 Hampton Street, Chesnee, South Carolina. The site is bordered to the north by a school, to the east by a vacant field, and to the south and west by commercial and residential properties. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map originating from a comprehensive survey completed by Jay S. Joshi (SC Registered Land Surveyor #14811) of Construction Support Services on June 6, 2018, is provided in Section J as Figure 2.

### **3. Site-Specific Geology and Hydrogeology**

Site-specific stratigraphy generally consists of silt underlain by sandy silt in the deep wells. During this scope of work, depth to groundwater was measured between 21 and 25 feet below top of casing in the recovery and influence wells gauged prior to the start of each event.

**C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY**

Not Applicable. No soil or groundwater borings were installed during this scope of work.

**D. MONITORING WELL INFORMATION**

Not Applicable. No monitoring wells were installed during this scope of work.

**E. GROUNDWATER DATA**

Not Applicable. No groundwater samples were collected during this scope of work.

**F. AFVR INFORMATION****1. Scope of Work**

As directed by SCDHEC two (2) consecutive 96-hour AFVR Events were performed; between October 4, 2021, and October 8, 2021, event one was conducted on monitoring/recovery wells RW-1 and RW-2 and between October 11, 2021, and October 15, 2021, event two was conducted on monitoring/recovery wells RW-1 and RW-2. TERRY Environmental Services, Inc. performed the AFVR events.

**2. AFVR Emissions Table**

AFVR Emissions Table (Event 1) – Attached

AFVR Emissions Table (Event 2) – Attached

Extraction Well Stinger Depth Table (Event 1) – Attached

Extraction Well Stinger Depth Table (Event 2) – Attached

**3. Vacuum Data Table**

Vacuum and Potentiometric Data Table (Event 1) – Attached

Vacuum and Potentiometric Data Table (Event 2) – Attached

**4. Volume of Water Recovered**

6,206 gallons of fluid were recovered during the 96-hour event conducted October 4, 2021, through October 8, 2021. 10,150 gallons of fluid were recovered during the 96-hour event conducted October 11, 2021, through October 15, 2021. A total of 16,356 gallons of fluid were recovered during the two events.

**5. Volume of Product Recovered**

At the completion of the event no product was detected in the recovery tank. However, the AFVR process routinely emulsifies product which can take several hours to separate.

**6. Mass of Petroleum Recovered as Vapor**

23.06 pounds of volatile organic vapors (approximate equivalent of 3.69 gallons of gasoline) were recovered during the course of the 96-hour event conducted October 4, 2021, through October 8, 2021. 11.10 pounds of volatile organic vapors (approximate equivalent of 1.78 gallons of gasoline) were recovered during the course of the 96-hour event conducted October 11, 2021, through October 15, 2021. A total of 34.16 pounds of gasoline



**SECTION F-2A  
AFVR EMISSIONS TABLE (EVENT 1)  
HOT SPOT #3005  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719**

|                          |                     |   |                                    |
|--------------------------|---------------------|---|------------------------------------|
| <b>Date:</b>             | October 4 - 8, 2021 | <b>Average Depth to Groundwater:</b>                        | 21 - 25 ft                         |
| <b>Site Name:</b>        | Hot Spot #3005      | <b>Describe Soil in Saturated Zone:</b>                     | Silt                               |
| <b>SCDHEC Site ID #:</b> | 12719               | <b>Vacuum Contractor:</b>                                   | TERRY Environmental Services, Inc. |
| <b>Well ID #:</b>        | RW-1 & RW-2         | <b>Blower Specification of the Vacuum Truck (CFM @ Hg):</b> | 262 CFM @ 25" Hg                   |

| Date           | Time  | DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) CALCULATIONS (Qstd) |                   |              |              |               |                         |                         |               |                    |                | EMISSION CALCULATION |                   |                |                                      |                                       |                          |                           |      |
|----------------|-------|--|-------------------|--------------|--------------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------|----------------------|-------------------|----------------|--------------------------------------|---------------------------------------|--------------------------|---------------------------|------|
|                |       | Vacuum (in. Hg)  | Velocity (ft/min) | Pipe Id (in) | Temp (F)     | Rel Humid (%) | PPM <sub>CO</sub> (ppm) | PPM <sub>HC</sub> (ppm) | Reduction (%) | Elapsed time (min) | Flow (DSCFM)   | PPM <sub>CO</sub>    | PPM <sub>HC</sub> | K              | C <sub>10</sub> (mg/m <sup>3</sup> ) | C <sub>10</sub> (lb/ft <sup>3</sup> ) | PM <sub>10</sub> (lb/hr) | PM <sub>2.5</sub> (lb/hr) |      |
| 10/4/2021      | 12:00 | 20.0   | 548               | 3            | 111          | 64.2          | 1.693                   | 113                     | 93            | 0                  | 22.60          | 1656.75              | 7423.02           | 4              | 3703.80                              | 2.312E-04                             | 0.31                     | 0.36                      | 0.08 |
| 10/4/2021      | 12:30 | 20.0   | 566               | 3            | 111          | 63.4          | 1.112                   | 128                     | 88            | 30                 | 22.96          | 1218.90              | 4875.60           | 4              | 2432.74                              | 1.519E-04                             | 0.21                     | 0.24                      | 0.04 |
| 10/4/2021      | 13:00 | 20.0   | 532               | 3            | 114          | 64.9          | 1.057                   | 102                     | 90            | 60                 | 21.92          | 1158.61              | 4634.45           | 4              | 2312.41                              | 1.444E-04                             | 0.19                     | 0.22                      | 0.04 |
| 10/4/2021      | 13:30 | 21.0   | 583               | 3            | 119          | 62.7          | 1.158                   | 117                     | 90            | 80                 | 23.79          | 1269.32              | 5077.29           | 4              | 2533.37                              | 1.582E-04                             | 0.23                     | 0.26                      | 0.04 |
| 10/4/2021      | 14:00 | 21.0   | 642               | 3            | 123          | 66.2          | 1.877                   | 161                     | 91            | 120                | 21.97          | 2057.44              | 8229.77           | 4              | 4108.34                              | 2.564E-04                             | 0.34                     | 0.39                      | 0.08 |
| 10/4/2021      | 14:30 | 21.0   | 532               | 3            | 131          | 63.8          | 1.754                   | 174                     | 90            | 190                | 21.27          | 1922.62              | 7690.47           | 4              | 3837.25                              | 2.398E-04                             | 0.31                     | 0.35                      | 0.08 |
| 10/4/2021      | 15:00 | 20.0   | 573               | 3            | 128          | 59.2          | 1.842                   | 129                     | 93            | 180                | 23.03          | 2019.08              | 8076.31           | 4              | 4029.77                              | 2.516E-04                             | 0.35                     | 0.40                      | 0.08 |
| 10/4/2021      | 15:30 | 20.0   | 578               | 3            | 128          | 54.7          | 1.139                   | 124                     | 89            | 210                | 23.23          | 1248.50              | 4993.98           | 4              | 2491.81                              | 1.556E-04                             | 0.22                     | 0.25                      | 0.04 |
| 10/4/2021      | 16:00 | 20.0   | 536               | 3            | 134          | 59.9          | 1.295                   | 147                     | 89            | 240                | 21.33          | 1419.49              | 5677.97           | 4              | 2833.09                              | 1.769E-04                             | 0.23                     | 0.26                      | 0.04 |
| 10/4/2021      | 16:30 | 20.0   | 622               | 3            | 118          | 71.8          | 2.109                   | 111                     | 95            | 270                | 23.43          | 2211.75              | 9245.86           | 4              | 4513.89                              | 2.885E-04                             | 0.44                     | 0.51                      | 0.08 |
| 10/4/2021      | 17:00 | 21.0   | 566               | 3            | 136          | 66.9          | 1.867                   | 130                     | 93            | 300                | 23.59          | 2046.48              | 8185.93           | 4              | 4084.48                              | 2.550E-04                             | 0.36                     | 0.42                      | 0.07 |
| 10/4/2021      | 17:30 | 21.0   | 643               | 3            | 130          | 67.4          | 1.112                   | 113                     | 90            | 330                | 25.78          | 1218.90              | 4875.60           | 4              | 2432.74                              | 1.519E-04                             | 0.23                     | 0.27                      | 0.04 |
| 10/4/2021      | 18:00 | 20.0   | 647               | 3            | 138          | 55.1          | 1.010                   | 107                     | 89            | 360                | 25.86          | 1107.09              | 4428.38           | 4              | 2209.59                              | 1.379E-04                             | 0.21                     | 0.25                      | 0.04 |
| 10/4/2021      | 18:30 | 20.0   | 538               | 3            | 139          | 68.5          | 1.369                   | 141                     | 90            | 390                | 21.23          | 1500.61              | 6002.43           | 4              | 2994.96                              | 1.870E-04                             | 0.24                     | 0.28                      | 0.04 |
| 10/4/2021      | 19:00 | 20.0   | 634               | 3            | 128          | 68.3          | 2.143                   | 132                     | 94            | 420                | 23.48          | 2349.01              | 9396.06           | 4              | 4688.27                              | 2.927E-04                             | 0.45                     | 0.52                      | 0.08 |
| 10/4/2021      | 19:30 | 20.0   | 618               | 3            | 120          | 63.1          | 1.036                   | 148                     | 88            | 450                | 25.18          | 1135.59              | 4542.38           | 4              | 2266.47                              | 1.419E-04                             | 0.21                     | 0.25                      | 0.04 |
| 10/4/2021      | 20:00 | 20.0   | 605               | 3            | 133          | 62.1          | 1.110                   | 101                     | 91            | 480                | 24.11          | 1216.71              | 4866.63           | 4              | 2428.38                              | 1.516E-04                             | 0.22                     | 0.25                      | 0.04 |
| 10/4/2021      | 21:00 | 20.0   | 638               | 3            | 130          | 55.1          | 985                     | 96.4                    | 90            | 540                | 25.98          | 1079.89              | 4318.77           | 4              | 2154.90                              | 1.349E-04                             | 0.21                     | 0.24                      | 0.04 |
| 10/4/2021      | 22:00 | 20.0   | 640               | 3            | 128          | 65.7          | 754                     | 71.3                    | 81            | 600                | 25.81          | 828.48               | 3305.94           | 4              | 1849.54                              | 1.030E-04                             | 0.16                     | 0.18                      | 0.03 |
| 10/4/2021      | 23:00 | 21.0   | 635               | 3            | 123          | 63.0          | 687                     | 69.4                    | 90            | 660                | 25.74          | 753.04               | 3012.17           | 4              | 1502.98                              | 9.363E-05                             | 0.14                     | 0.17                      | 0.03 |
| 10/5/2021      | 0:00  | 30.0   | 620               | 3            | 124          | 80.4          | 892                     | 75.8                    | 92            | 720                | 25.09          | 977.75               | 3911.00           | 4              | 1951.44                              | 1.218E-04                             | 0.18                     | 0.21                      | 0.03 |
| 10/5/2021      | 8:00  | 20.0   | 629               | 3            | 130          | 54.1          | 970                     | 59.6                    | 94            | 1200               | 25.20          | 1063.25              | 4253.00           | 4              | 2122.08                              | 1.329E-04                             | 0.20                     | 0.23                      | 0.04 |
| 10/5/2021      | 9:00  | 20.0   | 623               | 3            | 114          | 58.8          | 1.035                   | 47.3                    | 95            | 1260               | 25.65          | 1134.50              | 4537.99           | 4              | 2264.28                              | 1.414E-04                             | 0.22                     | 0.25                      | 0.04 |
| 10/5/2021      | 10:00 | 19.0   | 626               | 3            | 122          | 63.3          | 1.287                   | 80.9                    | 94            | 1320               | 25.42          | 1410.72              | 5642.90           | 4              | 2815.59                              | 1.758E-04                             | 0.27                     | 0.31                      | 0.05 |
| 10/5/2021      | 11:00 | 20.0   | 593               | 3            | 132          | 57.7          | 1.149                   | 65.4                    | 94            | 1380               | 23.67          | 1259.48              | 5037.63           | 4              | 2513.89                              | 1.589E-04                             | 0.22                     | 0.26                      | 0.04 |
| 10/5/2021      | 12:00 | 20.0   | 618               | 3            | 139          | 61.5          | 1.496                   | 79.7                    | 95            | 1440               | 24.38          | 1639.62              | 6559.26           | 4              | 3272.82                              | 2.043E-04                             | 0.30                     | 0.35                      | 0.06 |
| 10/5/2021      | 14:00 | 22.0   | 715               | 3            | 165          | 54.5          | 1.837                   | 68.4                    | 96            | 1660               | 27.48          | 2013.60              | 8064.39           | 4              | 4018.83                              | 2.509E-04                             | 0.41                     | 0.48                      | 0.08 |
| 10/5/2021      | 16:00 | 22.0   | 663               | 3            | 151          | 52.1          | 1.538                   | 78.8                    | 95            | 1680               | 25.64          | 1685.85              | 6743.41           | 4              | 3364.70                              | 2.101E-04                             | 0.32                     | 0.37                      | 0.08 |
| 10/5/2021      | 18:00 | 20.0   | 725               | 3            | 154          | 77.2          | 1.968                   | 81.8                    | 96            | 1800               | 27.91          | 2155.00              | 8819.99           | 4              | 4301.04                              | 2.689E-04                             | 0.48                     | 0.52                      | 0.08 |
| 10/5/2021      | 20:00 | 20.0   | 732               | 3            | 160          | 60.5          | 850                     | 20.1                    | 98            | 1920               | 27.66          | 918.89               | 3903.55           | 4              | 1947.72                              | 1.216E-04                             | 0.20                     | 0.24                      | 0.04 |
| 10/5/2021      | 22:00 | 20.0   | 710               | 3            | 158          | 72.0          | 990                     | 22.3                    | 98            | 2040               | 27.18          | 1088.17              | 4340.89           | 4              | 2165.84                              | 1.352E-04                             | 0.22                     | 0.25                      | 0.04 |
| 10/6/2021      | 0:00  | 20.0   | 689               | 3            | 163          | 70.3          | 867                     | 27.1                    | 97            | 2160               | 26.14          | 1059.96              | 4239.84           | 4              | 2115.52                              | 1.321E-04                             | 0.21                     | 0.24                      | 0.04 |
| 10/6/2021      | 8:00  | 19.0   | 682               | 3            | 137          | 78.3          | 1.515                   | 26.7                    | 98            | 2640               | 27.00          | 1690.84              | 6642.87           | 4              | 3314.39                              | 2.069E-04                             | 0.34                     | 0.39                      | 0.06 |
| 10/6/2021      | 10:00 | 20.0   | 685               | 3            | 147          | 65.9          | 375                     | 23.3                    | 94            | 2760               | 26.67          | 410.84               | 1643.78           | 4              | 820.17                               | 5.120E-05                             | 0.08                     | 0.09                      | 0.02 |
| 10/6/2021      | 12:00 | 21.0   | 709               | 3            | 149          | 56.6          | 367                     | 17.1                    | 95            | 2880               | 27.51          | 462.28               | 1859.12           | 4              | 802.89                               | 5.012E-05                             | 0.08                     | 0.10                      | 0.02 |
| 10/6/2021      | 14:00 | 21.0   | 752               | 3            | 152          | 52.8          | 338                     | 15.9                    | 95            | 3000               | 29.04          | 370.49               | 1481.97           | 4              | 739.45                               | 4.618E-05                             | 0.08                     | 0.09                      | 0.01 |
| 10/6/2021      | 16:00 | 22.0   | 712               | 3            | 154          | 58.4          | 349                     | 14.4                    | 96            | 3120               | 27.41          | 382.77               | 1531.08           | 4              | 763.95                               | 4.786E-05                             | 0.08                     | 0.09                      | 0.01 |
| 10/6/2021      | 18:00 | 21.0   | 707               | 3            | 149          | 60.5          | 288                     | 13.5                    | 95            | 3240               | 27.44          | 315.25               | 1280.99           | 4              | 629.19                               | 3.928E-05                             | 0.06                     | 0.07                      | 0.01 |
| 10/6/2021      | 20:00 | 20.0   | 740               | 3            | 160          | 75.3          | 382                     | 24.3                    | 94            | 3360               | 28.21          | 418.17               | 1672.70           | 4              | 834.61                               | 5.210E-05                             | 0.09                     | 0.10                      | 0.02 |
| 10/6/2021      | 22:00 | 21.0   | 753               | 3            | 153          | 78.8          | 381                     | 32.7                    | 91            | 3480               | 29.03          | 395.18               | 1580.62           | 4              | 788.67                               | 4.924E-05                             | 0.09                     | 0.10                      | 0.02 |
| 10/7/2021      | 0:00  | 20.0   | 780               | 3            | 150          | 77.4          | 348                     | 30.9                    | 91            | 3600               | 30.22          | 381.78               | 1527.13           | 4              | 761.86                               | 4.757E-05                             | 0.09                     | 0.10                      | 0.02 |
| 10/7/2021      | 8:00  | 20.0   | 618               | 3            | 147          | 74.5          | 305                     | 13.6                    | 96            | 4080               | 24.06          | 334.43               | 1337.72           | 4              | 667.47                               | 4.187E-05                             | 0.06                     | 0.07                      | 0.01 |
| 10/7/2021      | 10:00 | 19.0   | 812               | 3            | 145          | 62.3          | 294                     | 5.3                     | 98            | 4200               | 31.72          | 322.37               | 1289.49           | 4              | 643.41                               | 4.017E-05                             | 0.08                     | 0.09                      | 0.01 |
| 10/7/2021      | 12:00 | 19.0   | 783               | 3            | 151          | 64.8          | 488                     | 8.3                     | 98            | 4320               | 30.29          | 546.09               | 2184.37           | 4              | 1099.92                              | 6.804E-05                             | 0.12                     | 0.14                      | 0.02 |
| 10/7/2021      | 14:00 | 18.0   | 781               | 3            | 141          | 53.4          | 338                     | 13.8                    | 96            | 4440               | 30.71          | 370.38               | 1481.53           | 4              | 739.23                               | 4.615E-05                             | 0.09                     | 0.10                      | 0.02 |
| 10/7/2021      | 16:00 | 20.0   | 741               | 3            | 153          | 62.9          | 307                     | 18.1                    | 94            | 4560               | 28.57          | 338.18               | 1344.74           | 4              | 670.97                               | 4.189E-05                             | 0.07                     | 0.08                      | 0.01 |
| 10/7/2021      | 18:00 | 20.0   | 782               | 3            | 140          | 65.4          | 394                     | 20.3                    | 95            | 4680               | 30.80          | 431.33               | 1725.31           | 4              | 860.87                               | 5.374E-05                             | 0.10                     | 0.11                      | 0.02 |
| 10/7/2021      | 20:00 | 20.0   | 759               | 3            | 143          | 60.7          | 386                     | 25.1                    | 94            | 4800               | 29.76          | 423.33               | 1693.31           | 4              | 844.89                               | 5.278E-05                             | 0.09                     | 0.11                      | 0.02 |
| 10/7/2021      | 22:00 | 20.0   | 732               | 3            | 150          | 62.9          | 390                     | 34.2                    | 91            | 4920               | 28.36          | 427.60               | 1710.41           | 4              | 853.43                               | 5.328E-05                             | 0.09                     | 0.10                      | 0.02 |
| 10/8/2021      | 0:00  | 20.0   | 743               | 3            | 158          | 51.4          | 388                     | 29.7                    | 93            | 5040               | 28.41          | 438.59               | 1746.36           | 4              | 871.37                               | 5.444E-05                             | 0.09                     | 0.11                      | 0.02 |
| 10/8/2021      | 8:00  | 19.0   | 792               | 3            | 147          | 55.9          | 378                     | 23.7                    | 94            | 5520               | 30.84          | 413.90               | 1655.60           | 4              | 826.08                               | 5.187E-05                             | 0.10                     | 0.11                      | 0.02 |
| 10/8/2021      | 10:00 | 17.0   | 726               | 3            | 127          | 62.3          | 553                     | 18.8                    | 97            | 5640               | 29.23          | 605.83               | 2423.33           | 4              | 1206.15                              | 7.548E-05                             | 0.13                     | 0.15                      | 0.02 |
| 10/8/2021      | 12:00 | 17.0   | 719               | 3            | 134          | 57.9          | 386                     | 17.1                    | 96            | 5760               | 28.81          | 423.55               | 1694.18           | 4              | 845.33                               | 5.277E-05                             | 0.09                     | 0.10                      | 0.02 |
| <b>Average</b> |       | <b>20.1</b>  | <b>664.9</b>      | <b>3.0</b>   | <b>137.8</b> | <b>62.6</b>   | <b>964</b>              | <b>67</b>               | <b>93</b>     | <b>28.29</b>       | <b>1056.32</b> | <b>4225.29</b>       | <b>4</b>          | <b>2106.25</b> | <b>1.378E-04</b>                     | <b>0.21</b>                           | <b>0.24</b>              | <b>0.04</b>               |      |

Total Pounds of Gasoline Vapor Recovered as Emissions: 23.06  
 Total Gallons of Gasoline Recovered as Emissions: 3.69  
 (This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

**SECTION F-2A  
AFVR EMISSIONS TABLE (EVENT 2)  
HOT SPOT #3005  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719**

|                   |                     |  |                                    |
|-------------------|---------------------|--|------------------------------------|
| Date:             | October 11-15, 2021 | Average Depth to Groundwater:                        | 22 - 24 ft                         |
| Site Name:        | Hot Spot #3005      | Describe Soil in Saturated Zone:                     | Silt                               |
| SCDHEC Site ID #: | 12719               | Vacuum Contractor:                                   | TERRY Environmental Services, Inc. |
| Well ID #:        | RW-1 & RW-2         | Blower Specification of the Vacuum Truck (CFM @ Hg): | 282 CFM @ 25" Hg                   |

| Date           | Time         | DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) CALCULATIONS (Qstd) |                   |              |              |               |                        |                        |               |                    |              | EMISSION CALCULATION   |                        |                                      |                                      |                          |                          |                          |             |
|----------------|--------------|--|-------------------|--------------|--------------|---------------|------------------------|------------------------|---------------|--------------------|--------------|------------------------|------------------------|--------------------------------------|--------------------------------------|--------------------------|--------------------------|--------------------------|-------------|
|                |              | Vacuum (in. Hg)  | Velocity (ft/min) | Pipe Id (in) | Temp (F)     | Rel Humid (%) | PPM <sub>1</sub> (ppm) | PPM <sub>2</sub> (ppm) | Reduction (%) | Elapsed time (min) | Flow (DSCFM) | PPM <sub>1</sub> (ppm) | PPM <sub>2</sub> (ppm) | C <sub>1</sub> (mg/dm <sup>3</sup> ) | C <sub>2</sub> (mg/dm <sup>3</sup> ) | PMR <sub>1</sub> (lb/hr) | PMR <sub>2</sub> (lb/hr) | PMR <sub>3</sub> (lb/hr) |             |
| 10/11/2021     | 10:00        | 18.0   | 544               | 3            | 96           | 77.8          | 367                    | 7.8                    | 96            | 0                  | 27.28        | 402.28                 | 1609.12                | 4                                    | 802.89                               | 5.012E-05                | 0.06                     | 0.06                     | 0.02        |
| 10/11/2021     | 10:30        | 18.0   | 760               | 3            | 123          | 66.5          | 426                    | 14.9                   | 97            | 30                 | 30.81        | 466.95                 | 1867.81                | 4                                    | 831.97                               | 5.818E-05                | 0.11                     | 0.12                     | 0.02        |
| 10/11/2021     | 11:00        | 19.5   | 840               | 3            | 130          | 44.7          | 208                    | 30.1                   | 86            | 80                 | 33.69        | 228.43                 | 913.74                 | 4                                    | 455.92                               | 2.646E-05                | 0.06                     | 0.07                     | 0.01        |
| 10/11/2021     | 11:30        | 21.0   | 895               | 3            | 126          | 46.8          | 169                    | 22.8                   | 89            | 90                 | 36.09        | 207.17                 | 828.68                 | 4                                    | 413.48                               | 2.581E-05                | 0.06                     | 0.06                     | 0.01        |
| 10/11/2021     | 12:00        | 22.0   | 843               | 3            | 135          | 32.1          | 166                    | 29.1                   | 84            | 120                | 33.48        | 203.77                 | 815.08                 | 4                                    | 406.70                               | 2.539E-05                | 0.05                     | 0.06                     | 0.01        |
| 10/11/2021     | 12:30        | 23.0   | 914               | 3            | 130          | 40.2          | 171                    | 24.6                   | 86            | 160                | 36.61        | 187.33                 | 749.32                 | 4                                    | 373.88                               | 2.334E-05                | 0.05                     | 0.06                     | 0.01        |
| 10/11/2021     | 13:00        | 23.0   | 1,019             | 3            | 128          | 34.9          | 229                    | 29.9                   | 87            | 180                | 40.98        | 250.90                 | 1003.62                | 4                                    | 500.77                               | 3.126E-05                | 0.08                     | 0.09                     | 0.01        |
| 10/11/2021     | 13:30        | 23.0   | 991               | 3            | 126          | 43.7          | 167                    | 27.8                   | 83            | 210                | 40.03        | 183.05                 | 732.22                 | 4                                    | 365.35                               | 2.281E-05                | 0.05                     | 0.06                     | 0.01        |
| 10/11/2021     | 14:00        | 23.0   | 847               | 3            | 127          | 35.6          | 110                    | 19.6                   | 82            | 240                | 34.10        | 120.57                 | 482.20                 | 4                                    | 240.85                               | 1.602E-05                | 0.03                     | 0.04                     | 0.01        |
| 10/11/2021     | 14:30        | 23.5   | 955               | 3            | 130          | 40.8          | 93.4                   | 14.3                   | 85            | 270                | 39.48        | 102.28                 | 409.62                 | 4                                    | 204.33                               | 1.278E-05                | 0.03                     | 0.03                     | 0.01        |
| 10/11/2021     | 15:00        | 23.0   | 880               | 3            | 127          | 42.3          | 111                    | 19.0                   | 83            | 300                | 35.43        | 121.23                 | 484.93                 | 4                                    | 241.96                               | 1.511E-05                | 0.03                     | 0.04                     | 0.01        |
| 10/11/2021     | 15:30        | 23.0   | 1,019             | 3            | 136          | 31.6          | 170                    | 30.4                   | 82            | 330                | 40.47        | 186.45                 | 746.61                 | 4                                    | 372.13                               | 2.323E-05                | 0.06                     | 0.07                     | 0.01        |
| 10/11/2021     | 16:00        | 22.0   | 1,004             | 3            | 130          | 41.9          | 159                    | 26.5                   | 83            | 360                | 40.22        | 174.29                 | 697.14                 | 4                                    | 347.85                               | 2.172E-05                | 0.05                     | 0.06                     | 0.01        |
| 10/11/2021     | 16:30        | 22.0   | 990               | 3            | 127          | 46.3          | 99.5                   | 13.3                   | 87            | 390                | 39.86        | 109.07                 | 436.26                 | 4                                    | 217.88                               | 1.359E-05                | 0.03                     | 0.04                     | 0.01        |
| 10/11/2021     | 17:00        | 21.0   | 813               | 3            | 128          | 52.9          | 140                    | 13.3                   | 91            | 420                | 32.69        | 153.79                 | 616.15                 | 4                                    | 306.94                               | 1.919E-05                | 0.04                     | 0.04                     | 0.01        |
| 10/11/2021     | 17:30        | 21.5   | 888               | 3            | 130          | 58.6          | 134                    | 19.4                   | 88            | 450                | 35.57        | 147.32                 | 589.28                 | 4                                    | 294.03                               | 1.836E-05                | 0.04                     | 0.05                     | 0.01        |
| 10/11/2021     | 18:00        | 20.0   | 710               | 3            | 127          | 66.6          | 260                    | 28.5                   | 89            | 480                | 28.59        | 284.89                 | 1139.98                | 4                                    | 588.81                               | 3.581E-05                | 0.06                     | 0.07                     | 0.01        |
| 10/11/2021     | 19:00        | 20.0   | 842               | 3            | 128          | 51.0          | 459                    | 45.6                   | 90            | 540                | 33.84        | 503.02                 | 2012.06                | 4                                    | 1003.94                              | 6.268E-05                | 0.13                     | 0.15                     | 0.02        |
| 10/11/2021     | 20:00        | 19.0   | 758               | 3            | 127          | 79.9          | 559                    | 71.1                   | 89            | 600                | 30.52        | 645.73                 | 2582.93                | 4                                    | 1298.78                              | 8.048E-05                | 0.15                     | 0.17                     | 0.03        |
| 10/11/2021     | 21:00        | 18.0   | 654               | 3            | 140          | 55.4          | 406                    | 11.2                   | 97            | 660                | 25.78        | 445.25                 | 1781.00                | 4                                    | 888.65                               | 5.548E-05                | 0.09                     | 0.10                     | 0.02        |
| 10/11/2021     | 22:00        | 18.0   | 696               | 3            | 129          | 80.9          | 562                    | 20.8                   | 96            | 720                | 27.83        | 616.47                 | 2465.86                | 4                                    | 1230.37                              | 7.681E-05                | 0.13                     | 0.15                     | 0.02        |
| 10/12/2021     | 23:00        | 18.0   | 651               | 3            | 134          | 57.4          | 649                    | 17.7                   | 97            | 780                | 25.90        | 711.08                 | 2844.25                | 4                                    | 1419.17                              | 8.860E-05                | 0.14                     | 0.16                     | 0.03        |
| 10/12/2021     | 0:00         | 18.0   | 634               | 3            | 142          | 59.9          | 683                    | 23.7                   | 97            | 840                | 24.89        | 749.10                 | 2996.39                | 4                                    | 1495.08                              | 9.334E-05                | 0.14                     | 0.16                     | 0.03        |
| 10/12/2021     | 8:00         | 18.0   | 743               | 3            | 146          | 56.2          | 445                    | 32.6                   | 93            | 1320               | 28.98        | 488.00                 | 1951.99                | 4                                    | 974.97                               | 6.080E-05                | 0.11                     | 0.12                     | 0.02        |
| 10/12/2021     | 9:00         | 19.0   | 721               | 3            | 145          | 57.4          | 395                    | 37.9                   | 90            | 1380               | 28.18        | 433.19                 | 1732.77                | 4                                    | 864.58                               | 5.388E-05                | 0.09                     | 0.11                     | 0.02        |
| 10/12/2021     | 10:00        | 20.0   | 688               | 3            | 140          | 57.7          | 288                    | 31.4                   | 88            | 1440               | 27.10        | 293.65                 | 1174.62                | 4                                    | 586.05                               | 3.656E-05                | 0.06                     | 0.07                     | 0.01        |
| 10/12/2021     | 12:00        | 22.0   | 795               | 3            | 140          | 55.9          | 404                    | 50.5                   | 89            | 1680               | 31.31        | 442.96                 | 1771.79                | 4                                    | 884.05                               | 5.519E-05                | 0.10                     | 0.12                     | 0.02        |
| 10/12/2021     | 14:00        | 22.0   | 884               | 3            | 142          | 55.5          | 316                    | 48.0                   | 85            | 1680               | 34.70        | 348.05                 | 1384.20                | 4                                    | 690.66                               | 4.312E-05                | 0.09                     | 0.10                     | 0.02        |
| 10/12/2021     | 16:00        | 22.0   | 908               | 3            | 145          | 49.7          | 341                    | 24.6                   | 93            | 1800               | 35.35        | 373.89                 | 1496.56                | 4                                    | 746.23                               | 4.699E-05                | 0.10                     | 0.11                     | 0.02        |
| 10/12/2021     | 18:00        | 21.0   | 707               | 3            | 139          | 39.5          | 351                    | 35.6                   | 91            | 1920               | 27.89        | 417.74                 | 1670.95                | 4                                    | 833.74                               | 5.209E-05                | 0.09                     | 0.10                     | 0.02        |
| 10/12/2021     | 20:00        | 18.0   | 791               | 3            | 134          | 60.7          | 393                    | 28.2                   | 93            | 2040               | 31.47        | 431.11                 | 1724.44                | 4                                    | 890.43                               | 5.372E-05                | 0.10                     | 0.12                     | 0.02        |
| 10/12/2021     | 22:00        | 18.0   | 818               | 3            | 145          | 67.6          | 430                    | 23.9                   | 94            | 2160               | 31.95        | 471.67                 | 1886.66                | 4                                    | 941.37                               | 5.877E-05                | 0.11                     | 0.13                     | 0.02        |
| 10/13/2021     | 0:00         | 17.0   | 812               | 3            | 143          | 63.1          | 386                    | 40.3                   | 90            | 2280               | 31.82        | 423.55                 | 1684.18                | 4                                    | 848.33                               | 5.277E-05                | 0.10                     | 0.12                     | 0.02        |
| 10/13/2021     | 8:00         | 18.0   | 879               | 3            | 141          | 47.9          | 462                    | 13.6                   | 97            | 2760               | 34.56        | 506.19                 | 2024.78                | 4                                    | 1010.29                              | 6.307E-05                | 0.13                     | 0.15                     | 0.02        |
| 10/13/2021     | 10:00        | 19.0   | 910               | 3            | 145          | 65.0          | 637                    | 34.6                   | 96            | 2880               | 35.55        | 917.24                 | 3869.88                | 4                                    | 1930.69                              | 1.143E-04                | 0.24                     | 0.28                     | 0.05        |
| 10/13/2021     | 12:00        | 21.5   | 756               | 3            | 138          | 42.1          | 389                    | 33                     | 92            | 3000               | 29.88        | 426.40                 | 1705.56                | 4                                    | 891.02                               | 5.313E-05                | 0.10                     | 0.11                     | 0.02        |
| 10/13/2021     | 14:00        | 21.0   | 769               | 3            | 140          | 48.8          | 311                    | 29.4                   | 91            | 3120               | 30.29        | 341.01                 | 1384.03                | 4                                    | 680.60                               | 4.248E-05                | 0.08                     | 0.09                     | 0.01        |
| 10/13/2021     | 16:00        | 22.0   | 880               | 3            | 146          | 65.7          | 499                    | 9.5                    | 98            | 3240               | 34.32        | 547.08                 | 2188.32                | 4                                    | 1091.89                              | 6.917E-05                | 0.14                     | 0.16                     | 0.03        |
| 10/13/2021     | 18:00        | 20.0   | 895               | 3            | 139          | 46.0          | 367                    | 26.8                   | 93            | 3360               | 27.42        | 423.77                 | 1695.06                | 4                                    | 845.77                               | 5.280E-05                | 0.09                     | 0.10                     | 0.02        |
| 10/13/2021     | 20:00        | 19.0   | 786               | 3            | 140          | 50.4          | 395                    | 19.2                   | 95            | 3480               | 30.17        | 433.08                 | 1732.33                | 4                                    | 864.37                               | 5.396E-05                | 0.10                     | 0.11                     | 0.02        |
| 10/13/2021     | 22:00        | 18.0   | 748               | 3            | 142          | 60.9          | 553                    | 34.7                   | 94            | 3600               | 29.38        | 606.63                 | 2423.33                | 4                                    | 1209.15                              | 7.549E-05                | 0.13                     | 0.15                     | 0.02        |
| 10/14/2021     | 0:00         | 18.0   | 735               | 3            | 136          | 53.4          | 391                    | 11.8                   | 97            | 3720               | 29.14        | 428.70                 | 1714.79                | 4                                    | 856.61                               | 5.342E-05                | 0.09                     | 0.11                     | 0.02        |
| 10/14/2021     | 8:00         | 17.0   | 828               | 3            | 139          | 57.6          | 382                    | 6.8                    | 99            | 4200               | 32.67        | 419.15                 | 1676.65                | 4                                    | 836.58                               | 5.223E-05                | 0.10                     | 0.12                     | 0.02        |
| 10/14/2021     | 10:00        | 20.0   | 813               | 3            | 140          | 59.4          | 376                    | 26.5                   | 93            | 4320               | 32.02        | 411.60                 | 1646.39                | 4                                    | 821.49                               | 5.129E-05                | 0.10                     | 0.11                     | 0.02        |
| 10/14/2021     | 12:00        | 23.0   | 979               | 3            | 151          | 29.6          | 399                    | 15.2                   | 96            | 4440               | 37.87        | 437.25                 | 1748.99                | 4                                    | 872.68                               | 5.448E-05                | 0.12                     | 0.14                     | 0.03        |
| 10/14/2021     | 14:00        | 24.0   | 1,035             | 3            | 145          | 60.6          | 1,291                  | 44.4                   | 97            | 4560               | 40.43        | 1414.78                | 5659.12                | 4                                    | 2823.68                              | 1.763E-04                | 0.43                     | 0.48                     | 0.08        |
| 10/14/2021     | 16:00        | 23.5   | 765               | 3            | 149          | 48.8          | 389                    | 16.4                   | 96            | 4680               | 30.18        | 426.18                 | 1704.71                | 4                                    | 850.58                               | 5.310E-05                | 0.10                     | 0.11                     | 0.02        |
| 10/14/2021     | 18:00        | 21.5   | 880               | 3            | 143          | 54.9          | 396                    | 11.1                   | 97            | 4800               | 34.49        | 434.18                 | 1730.71                | 4                                    | 866.55                               | 5.410E-05                | 0.11                     | 0.13                     | 0.02        |
| 10/14/2021     | 20:00        | 18.0   | 969               | 3            | 145          | 62.3          | 404                    | 12.4                   | 97            | 4920               | 37.85        | 442.84                 | 1771.35                | 4                                    | 893.84                               | 5.518E-05                | 0.13                     | 0.14                     | 0.02        |
| 10/14/2021     | 22:00        | 18.0   | 736               | 3            | 147          | 72.8          | 379                    | 31.8                   | 92            | 5040               | 28.68        | 415.87                 | 1683.49                | 4                                    | 830.02                               | 5.182E-05                | 0.09                     | 0.10                     | 0.02        |
| 10/15/2021     | 0:00         | 18.0   | 773               | 3            | 142          | 74.3          | 355                    | 21.2                   | 94            | 5160               | 30.35        | 389.02                 | 1566.07                | 4                                    | 776.42                               | 4.847E-05                | 0.09                     | 0.10                     | 0.02        |
| 10/15/2021     | 8:00         | 17.0   | 813               | 3            | 145          | 49.1          | 486                    | 56.8                   | 88            | 5640               | 31.76        | 533.05                 | 2132.20                | 4                                    | 1063.88                              | 6.642E-05                | 0.13                     | 0.15                     | 0.02        |
| 10/15/2021     | 10:00        | 18.0   | 805               | 3            | 147          | 46.9          | 386                    | 30.2                   | 92            | 5760               | 31.34        | 422.87                 | 1690.88                | 4                                    | 843.58                               | 5.266E-05                | 0.10                     | 0.11                     | 0.02        |
| <b>Average</b> |              | <b>20.1</b>  | <b>854.1</b>      | <b>3.0</b>   | <b>136.3</b> | <b>53.3</b>   | <b>373</b>             | <b>26</b>              | <b>91</b>     |                    | <b>32.66</b> | <b>409.40</b>          | <b>1637.81</b>         | <b>4</b>                             | <b>817.10</b>                        | <b>5.101E-05</b>         | <b>0.10</b>              | <b>0.12</b>              | <b>0.02</b> |
| <b>BWA =</b>   | <b>0.089</b> | <b>BWOR =</b>  | <b>0.06</b>       |              |              |               |                        |                        |               |                    |              |                        |                        |                                      |                                      |                          |                          |                          |             |

Total Pounds of Gasoline Vapor Recovered as Emissions: 11.10  
 Total Gallons of Gasoline Recovered as Emissions: 1.78  
 (This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

## AFVR Definitions and Equations

$Qstd = (60 \text{ sec/min}) (1 - Bws) (\text{velocity}) (\text{Pipe ID sq.ft.}) [(528 \text{ oR} / (\text{Temp.} + 460))] (\text{Listed As Flow Above})$

$Bws = (B_{wsw} / 18 \text{ lb-mole H}_2\text{O}) / [(1/28.84 \text{ lb-mole dry air}) + B_{wsw} / 18 \text{ lb-mole H}_2\text{O}]$

$PPMd = (PPM_w) / (1 - Bws)$        $PPMc = (PPM) (K)$

$Cc = Ccm (62.43 \text{ E } -9 \text{ lb-m}^3/\text{mg-ft}^3)$        $PMRg = (PMRc) (\text{Mg/Mcg})$

Bgs = below top of casing

$Bws = (B_{wsw} / 18 \text{ lb-mole H}_2\text{O}) / [(1/28.84 \text{ lb-mole dry air}) + B_{wsw} / 18 \text{ lb-mole H}_2\text{O}]$

$Qstd = (60 \text{ sec/min})(1 - Bws)(V)(A)(\text{Temp deg Rankin})$

Bgs = below top of casing

Bws - water vapor % by volume

PPMpre = measured directly from Photo Ionization Detector (PID) pre-treatment

PPMpost = measured directly from PID post-treatment

Bwsw - pounds of water per pound of dry air, derived from the psychometric chart (temp Vs relative hum)

PPMw = PPM measured (wet Conc.)

K = # of carbons in calibration gas (isobutylene)

PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP

Ccm = mg/dsm<sup>3</sup>, mass concentration of VOC emissions as carbon

Mc = 12.01 mg/mg-mole, molecular wt. of carbon

K<sub>3</sub> = 24.07 dsm<sup>3</sup>/10<sup>6</sup> mg-mole, mass to volume conversion factor at stp

Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP

PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon

PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline

Mcg = 89 mg/mg-mole, weight of carbon in gasoline molecule

PPMd = "dry" concentration

Mg = 103 mg/mg-mole, molecular wt. of gasoline

Qstd - Flow at DSCFM

Ccm = PPMc (Mc/K<sub>3</sub>)

PMRc = Cc (Qstd) (60 min/hr)

Reference:

North Carolina Department of Natural Resources, Division of Waste Management, Underground Storage Tank Section, Appendix B, Report Formats, April 2001.

**SECTION F-2B**  
**EXTRACTION WELL STINGER DEPTH TABLE (EVENT 1)**  
**HOT SPOT #3005**  
**CHESNEE, SOUTH CAROLINA**  
**SCDHEC UST PERMIT #12719**  
**OCTOBER 4-8, 2021**

| Well #       | RW-1                | Well #       | RW-2                |
|--------------|---------------------|--------------|---------------------|
| Elapsed Time | Stinger Depth (ft)* | Elapsed Time | Stinger Depth (ft)* |
| 0            | 24.0                | 0            | 23.5                |
| 0.5          | 24.5                | 0.5          | 24.0                |
| 1            | 25.0                | 1            | 24.5                |
| 1.5          | 25.5                | 1.5          | 25.0                |
| 2            | 26.0                | 2            | 25.5                |
| 2.5          | 26.5                | 2.5          | 26.0                |
| 3            | 27.0                | 3            | 26.5                |
| 3.5          | 27.5                | 3.5          | 27.0                |
| 4            | 28.0                | 4            | 27.5                |
| 4.5          | 28.5                | 4.5          | 28.0                |
| 5            | 29.0                | 5            | 28.5                |
| 5.5          | 29.5                | 5.5          | 29.0                |
| 6            | 29.5                | 6            | 29.5                |
| 6.5          | 30.0                | 6.5          | 30.0                |
| 7            | 30.0                | 7            | 30.0                |
| 7.5          | 30.0                | 7.5          | 30.0                |
| 8            | 30.0                | 8            | 30.0                |
| 9            | 30.0                | 9            | 30.0                |
| 10           | 30.0                | 10           | 30.0                |
| 11           | 30.0                | 11           | 30.0                |
| 12           | 30.0                | 12           | 30.0                |
| 20           | 30.0                | 20           | 30.0                |
| 21           | 30.0                | 21           | 30.0                |
| 22           | 30.0                | 22           | 26.0                |
| 23           | 30.0                | 23           | 26.0                |
| 24           | 29.0                | 24           | 25.0                |
| 26           | 25.0                | 26           | 25.0                |
| 28           | 25.0                | 28           | 25.0                |
| 30           | 24.5                | 30           | 24.5                |
| 32           | 25.0                | 32           | 25.0                |
| 34           | 25.0                | 34           | 25.0                |
| 36           | 25.0                | 36           | 25.0                |
| 44           | 25.0                | 44           | 25.0                |
| 46           | 25.0                | 46           | 25.0                |
| 48           | 24.5                | 48           | 24.5                |
| 50           | 24.5                | 50           | 24.5                |
| 52           | 24.5                | 52           | 24.5                |
| 54           | 25.0                | 54           | 25.0                |
| 56           | 25.0                | 56           | 25.0                |
| 58           | 25.0                | 58           | 25.0                |
| 60           | 25.0                | 60           | 25.0                |
| 68           | 25.0                | 68           | 25.0                |
| 70           | 25.0                | 70           | 25.0                |
| 72           | 25.0                | 72           | 25.0                |
| 74           | 25.0                | 74           | 25.0                |
| 76           | 25.0                | 76           | 25.0                |
| 78           | 25.0                | 78           | 25.0                |
| 80           | 25.0                | 80           | 25.0                |
| 82           | 25.0                | 82           | 25.0                |
| 84           | 25.0                | 84           | 25.0                |
| 92           | 25.0                | 92           | 25.0                |
| 94           | 25.0                | 94           | 25.0                |
| 96           | 25.0                | 96           | 25.0                |

\*Measured relative to the top of the well casing.

**SECTION F-2B**  
**EXTRACTION WELL STINGER DEPTH TABLE (EVENT 2)**  
**HOT SPOT #3005**  
**CHESNEE, SOUTH CAROLINA**  
**SCDHEC UST PERMIT #12719**  
**OCTOBER 11-15, 2021**

| <b>Well #</b>       | <b>RW-1</b>                | <b>Well #</b>       | <b>RW-2</b>                |
|---------------------|----------------------------|---------------------|----------------------------|
| <b>Elapsed Time</b> | <b>Stinger Depth (ft)*</b> | <b>Elapsed Time</b> | <b>Stinger Depth (ft)*</b> |
| 0.5                 | 23.0                       | 0                   | 23.0                       |
| 1                   | 23.5                       | 0.5                 | 23.5                       |
| 1.5                 | 24.0                       | 1                   | 24.0                       |
| 2                   | 24.5                       | 1.5                 | 24.5                       |
| 2.5                 | 25.0                       | 2                   | 25.0                       |
| 3                   | 25.5                       | 2.5                 | 25.5                       |
| 3.5                 | 26.0                       | 3                   | 26.0                       |
| 4                   | 26.5                       | 3.5                 | 26.5                       |
| 4.5                 | 27.0                       | 4                   | 27.0                       |
| 5                   | 27.5                       | 4.5                 | 27.5                       |
| 5.5                 | 28.0                       | 5                   | 28.0                       |
| 6                   | 28.5                       | 5.5                 | 28.5                       |
| 6.5                 | 29.0                       | 6                   | 29.0                       |
| 7                   | 29.5                       | 6.5                 | 29.5                       |
| 7.5                 | 30.0                       | 7                   | 30.0                       |
| 8                   | 30.0                       | 7.5                 | 30.0                       |
| 9                   | 30.0                       | 8                   | 30.0                       |
| 10                  | 23.0                       | 9                   | 23.0                       |
| 11                  | 23.0                       | 10                  | 23.0                       |
| 12                  | 23.0                       | 11                  | 23.0                       |
| 12.5                | 23.0                       | 12                  | 23.0                       |
| 20.5                | 23.0                       | 13                  | 23.0                       |
| 21.5                | 23.0                       | 14                  | 23.0                       |
| 22.5                | 23.0                       | 22                  | 23.0                       |
| 23.5                | 23.0                       | 23                  | 23.0                       |
| 24.5                | 23.0                       | 24                  | 23.0                       |
| 26.5                | 23.0                       | 26                  | 23.0                       |
| 28.5                | 23.0                       | 28                  | 23.0                       |
| 30.5                | 24.0                       | 30                  | 24.0                       |
| 32.5                | 24.0                       | 32                  | 24.0                       |
| 34.5                | 24.0                       | 34                  | 24.0                       |
| 36.5                | 24.0                       | 36                  | 24.0                       |
| 44.5                | 24.0                       | 38                  | 24.0                       |
| 46.5                | 24.0                       | 46                  | 24.0                       |
| 48.5                | 24.0                       | 48                  | 24.0                       |
| 50.5                | 24.0                       | 50                  | 24.0                       |
| 52.5                | 24.0                       | 52                  | 24.0                       |
| 54.5                | 24.0                       | 54                  | 24.0                       |
| 56.5                | 24.0                       | 56                  | 24.0                       |
| 58.5                | 24.0                       | 58                  | 20.0                       |
| 66.5                | 24.0                       | 60                  | 24.0                       |
| 68.5                | 24.0                       | 62                  | 24.0                       |
| 70.5                | 24.0                       | 70                  | 24.0                       |
| 72.5                | 23.0                       | 72                  | 23.0                       |
| 74.5                | 22.0                       | 74                  | 22.0                       |
| 76.5                | 22.0                       | 76                  | 22.0                       |
| 78.5                | 22.0                       | 78                  | 22.0                       |
| 80.5                | 22.0                       | 80                  | 22.0                       |
| 82.5                | 22.0                       | 82                  | 22.0                       |
| 84.5                | 22.0                       | 84                  | 22.0                       |
| 92.5                | 22.0                       | 86                  | 22.0                       |
| 94.5                | 22.0                       | 94                  | 22.0                       |
| 96                  | 22.0                       | 96                  | 22.0                       |

\*Measured relative to the top of the well casing.

**SECTION F-3**  
**VACUUM DATA AND POTENTIOMETRIC TABLE (EVENT 1)**  
**HOT SPOT #3005**  
**CHESNEE, SOUTH CAROLINA**  
**SCDHEC UST PERMIT #12719**  
**OCTOBER 4-8, 2021**

| Well #       | MW-2R           |                       | Well #       | MW-6            |                       | Well #       | MW-7            |                       |
|--------------|-----------------|-----------------------|--------------|-----------------|-----------------------|--------------|-----------------|-----------------------|
| Elapsed Time | Vacuum (in H2O) | Depth to Water (ft.)* | Elapsed Time | Vacuum (in H2O) | Depth to Water (ft.)* | Elapsed Time | Vacuum (in H2O) | Depth to Water (ft.)* |
| 0            | 0.0             | 23.01                 | 0            | 0.0             | 23.40                 | 0            | 0.0             | 21.86                 |
| 0.5          | 0.0             | 23.14                 | 0.5          | 0.0             | 23.51                 | 0.5          | 0.0             | 21.89                 |
| 1            | 0.0             | 23.15                 | 1            | 0.0             | 23.56                 | 1            | 0.0             | 21.92                 |
| 1.5          | 0.0             | 23.16                 | 1.5          | 0.0             | 23.61                 | 1.5          | 0.0             | 21.94                 |
| 2            | 0.0             | 23.05                 | 2            | 0.0             | 23.51                 | 2            | 0.0             | 21.86                 |
| 2.5          | 0.0             | 23.03                 | 2.5          | 0.0             | 23.49                 | 2.5          | 0.0             | 21.85                 |
| 3            | 0.0             | 23.02                 | 3            | 0.0             | 23.49                 | 3            | 0.0             | 21.85                 |
| 3.5          | 0.0             | 23.02                 | 3.5          | 0.0             | 23.50                 | 3.5          | 0.0             | 21.84                 |
| 4            | 0.0             | 23.00                 | 4            | 0.0             | 23.49                 | 4            | 0.0             | 21.84                 |
| 4.5          | 0.0             | 22.99                 | 4.5          | 0.0             | 23.47                 | 4.5          | 0.0             | 21.84                 |
| 5            | 0.0             | 22.99                 | 5            | 0.0             | 23.48                 | 5            | 0.0             | 21.84                 |
| 5.5          | 0.0             | 23.00                 | 5.5          | 0.0             | 23.49                 | 5.5          | 0.0             | 21.83                 |
| 6            | 0.0             | 22.99                 | 6            | 0.0             | 23.49                 | 6            | 0.0             | 21.85                 |
| 6.5          | 0.0             | 23.00                 | 6.5          | 0.0             | 23.49                 | 6.5          | 0.0             | 21.86                 |
| 7            | 0.0             | 23.01                 | 7            | 0.0             | 23.51                 | 7            | 0.0             | 21.87                 |
| 7.5          | 0.0             | 23.01                 | 7.5          | 0.0             | 23.51                 | 7.5          | 0.0             | 21.89                 |
| 8            | 0.0             | 23.04                 | 8            | 0.0             | 23.52                 | 8            | 0.0             | 21.88                 |
| 9            | 0.0             | 23.06                 | 9            | 0.0             | 23.52                 | 9            | 0.0             | 21.89                 |
| 10           | 0.0             | 23.05                 | 10           | 0.0             | 23.51                 | 10           | 0.0             | 21.89                 |
| 11           | 0.0             | 23.05                 | 11           | 0.0             | 23.51                 | 11           | 0.0             | 21.88                 |
| 12           | 0.0             | 23.06                 | 12           | 0.0             | 23.52                 | 12           | 0.0             | 21.88                 |
| 20           | 0.0             | 23.06                 | 20           | 0.0             | 23.52                 | 20           | 0.0             | 21.89                 |
| 21           | 0.0             | 23.06                 | 21           | 0.0             | 23.51                 | 21           | 0.0             | 21.89                 |
| 22           | 0.0             | 23.09                 | 22           | 0.0             | 23.59                 | 22           | 0.0             | 21.94                 |
| 23           | 0.0             | 23.11                 | 23           | 0.0             | 23.59                 | 23           | 0.0             | 22.10                 |
| 24           | 0.0             | 23.23                 | 24           | 0.0             | 23.64                 | 24           | 0.0             | 22.03                 |
| 26           | 1.8             | 24.47                 | 26           | 0.0             | 24.01                 | 26           | 0.0             | 22.19                 |
| 28           | 1.6             | 24.85                 | 28           | 0.0             | 24.11                 | 28           | 0.0             | 22.28                 |
| 30           | 1.8             | 24.93                 | 30           | 0.0             | 24.19                 | 30           | 0.1             | 22.35                 |
| 32           | 2.5             | 25.13                 | 32           | 0.0             | 24.26                 | 32           | 2.0             | 22.43                 |
| 34           | 2.3             | 25.10                 | 34           | 0.0             | 24.25                 | 34           | 2.0             | 22.41                 |
| 36           | 2.3             | 25.11                 | 36           | 0.0             | 24.24                 | 36           | 1.8             | 22.40                 |
| 44           | 2.9             | 23.88                 | 44           | 0.0             | 23.94                 | 44           | 0.2             | 22.23                 |
| 46           | 2.6             | 24.83                 | 46           | 0.0             | 24.24                 | 46           | 0.1             | 22.45                 |
| 48           | 2.2             | 25.11                 | 48           | 0.0             | 24.34                 | 48           | 0.0             | 22.54                 |
| 50           | 0.0             | 25.35                 | 50           | 0.0             | 24.34                 | 50           | 0.0             | 22.54                 |
| 52           | 3.7             | 25.05                 | 52           | 0.0             | 24.37                 | 52           | 0.0             | 22.55                 |
| 54           | 2.7             | 25.35                 | 54           | 0.0             | 24.41                 | 54           | 0.0             | 22.58                 |
| 56           | 4.0             | 25.00                 | 56           | 0.0             | 24.47                 | 56           | 1.2             | 22.63                 |
| 58           | 3.3             | 25.28                 | 58           | 0.0             | 24.50                 | 58           | 0.1             | 22.65                 |
| 60           | 2.8             | 25.25                 | 60           | 0.0             | 24.51                 | 60           | 0.1             | 22.69                 |
| 68           | 3.9             | 24.96                 | 68           | 0.0             | 24.51                 | 68           | 0.0             | 22.72                 |
| 70           | 2.7             | 25.13                 | 70           | 0.0             | 24.53                 | 70           | 0.0             | 22.81                 |
| 72           | 3.4             | 25.36                 | 72           | 0.0             | 24.58                 | 72           | 0.0             | 22.81                 |
| 74           | 3.6             | 25.26                 | 74           | 0.0             | 24.59                 | 74           | 0.0             | 22.82                 |
| 76           | 3.0             | 25.32                 | 76           | 0.0             | 24.59                 | 76           | 0.0             | 22.87                 |
| 78           | 1.6             | 25.48                 | 78           | 0.0             | 24.53                 | 78           | 0.0             | 22.71                 |
| 80           | 3.0             | 25.47                 | 80           | 0.0             | 24.51                 | 80           | 0.0             | 22.70                 |
| 82           | 3.0             | 24.71                 | 82           | 0.0             | 24.50                 | 82           | 0.0             | 22.73                 |
| 84           | 3.0             | 23.38                 | 84           | 0.0             | 24.56                 | 84           | 0.0             | 22.72                 |
| 92           | 2.2             | 25.52                 | 92           | 0.0             | 24.64                 | 92           | 0.1             | 22.79                 |
| 94           | 2.2             | 25.48                 | 94           | 0.0             | 24.71                 | 94           | 0.0             | 22.82                 |
| 96           | 2.1             | 25.18                 | 96           | 0.0             | 24.71                 | 96           | 0.0             | 22.86                 |

\*Relative to top of well casing.

**SECTION F-3**  
**VACUUM DATA AND POTENTIOMETRIC TABLE (EVENT 2)**  
**HOT SPOT #3005**  
**CHESNEE, SOUTH CAROLINA**  
**SCDHEC UST PERMIT #12719**  
**OCTOBER 11-15, 2021**

| Well #       | MW-2R           |                       | Well #       | MW-6            |                       | Well #       | MW-7            |                       |
|--------------|-----------------|-----------------------|--------------|-----------------|-----------------------|--------------|-----------------|-----------------------|
| Elapsed Time | Vacuum (in H2O) | Depth to Water (ft.)* | Elapsed Time | Vacuum (in H2O) | Depth to Water (ft.)* | Elapsed Time | Vacuum (in H2O) | Depth to Water (ft.)* |
| 0            | 0.0             | 23.29                 | 0            | 0.0             | 23.74                 | 0            | 0.0             | 22.13                 |
| 0.5          | 0.0             | --                    | 0.5          | 0.0             | --                    | 0.5          | 0.0             | --                    |
| 1            | 0.0             | --                    | 1            | 0.0             | --                    | 1            | 0.0             | --                    |
| 1.5          | 0.0             | --                    | 1.5          | 0.0             | --                    | 1.5          | 0.0             | --                    |
| 2            | 0.0             | 23.31                 | 2            | 0.0             | 23.73                 | 2            | 0.0             | 22.15                 |
| 2.5          | 0.0             | --                    | 2.5          | 0.0             | --                    | 2.5          | 0.0             | --                    |
| 3            | 0.0             | --                    | 3            | 0.0             | --                    | 3            | 0.0             | --                    |
| 3.5          | 0.0             | --                    | 3.5          | 0.0             | --                    | 3.5          | 0.0             | --                    |
| 4            | 0.0             | 23.39                 | 4            | 0.0             | 23.73                 | 4            | 0.0             | 22.16                 |
| 4.5          | 0.0             | --                    | 4.5          | 0.0             | --                    | 4.5          | 0.0             | --                    |
| 5            | 0.0             | --                    | 5            | 0.0             | --                    | 5            | 0.0             | --                    |
| 5.5          | 0.0             | --                    | 5.5          | 0.0             | --                    | 5.5          | 0.0             | --                    |
| 6            | 0.0             | 23.29                 | 6            | 0.0             | 23.69                 | 6            | 0.0             | 22.10                 |
| 6.5          | 0.0             | --                    | 6.5          | 0.0             | --                    | 6.5          | 0.0             | --                    |
| 7            | 0.0             | --                    | 7            | 0.0             | --                    | 7            | 0.0             | --                    |
| 7.5          | 0.0             | --                    | 7.5          | 0.0             | --                    | 7.5          | 0.0             | --                    |
| 8            | 0.0             | 23.29                 | 8            | 0.0             | 23.70                 | 8            | 0.0             | 22.11                 |
| 9            | 0.0             | --                    | 9            | 0.0             | --                    | 9            | 0.0             | --                    |
| 10           | 0.0             | 23.38                 | 10           | 0.0             | 23.78                 | 10           | 0.0             | 22.22                 |
| 11           | 0.0             | --                    | 11           | 0.0             | --                    | 11           | 0.0             | --                    |
| 12           | 6.0             | 24.05                 | 12           | 0.0             | 24.11                 | 12           | 0.0             | 22.43                 |
| 13           | 6.0             | --                    | 13           | 0.0             | --                    | 13           | 0.0             | --                    |
| 14           | 5.6             | 24.57                 | 14           | 0.0             | 24.23                 | 14           | 0.0             | 22.53                 |
| 22           | 4.2             | 25.01                 | 22           | 0.0             | 24.45                 | 22           | 0.0             | 22.71                 |
| 23           | 4.2             | --                    | 23           | 0.0             | --                    | 23           | 0.0             | --                    |
| 24           | 6.0             | 25.00                 | 24           | 0.0             | 24.45                 | 24           | 0.0             | 22.71                 |
| 26           | 3.2             | 24.91                 | 26           | 0.0             | 24.43                 | 26           | 0.0             | 22.71                 |
| 28           | 4.2             | 24.93                 | 28           | 0.0             | 24.45                 | 28           | 0.0             | 22.70                 |
| 30           | 4.4             | 25.02                 | 30           | 0.0             | 24.45                 | 30           | 0.0             | 22.72                 |
| 32           | 4.8             | 25.03                 | 32           | 0.0             | 24.45                 | 32           | 0.0             | 22.70                 |
| 34           | 2.2             | 24.52                 | 34           | 0.1             | 24.26                 | 34           | 0.0             | 22.61                 |
| 36           | 3.4             | 24.89                 | 36           | 0.0             | 24.42                 | 36           | 0.0             | 22.70                 |
| 38           | 3.4             | 25.14                 | 38           | 0.0             | 24.49                 | 38           | 0.0             | 22.76                 |
| 46           | 3.4             | 25.27                 | 46           | 0.0             | 24.58                 | 46           | 0.0             | 22.83                 |
| 48           | 3.2             | 25.33                 | 48           | 0.0             | 24.58                 | 48           | 0.0             | 22.80                 |
| 50           | 3.6             | 25.34                 | 50           | 0.0             | 24.61                 | 50           | 0.0             | 22.88                 |
| 52           | 3.8             | 25.33                 | 52           | 0.0             | 24.64                 | 52           | 0.0             | 22.88                 |
| 54           | 4.4             | 25.35                 | 54           | 0.0             | 24.60                 | 54           | 0.0             | 22.89                 |
| 56           | 3.4             | 25.29                 | 56           | 0.0             | 24.60                 | 56           | 0.0             | 22.88                 |
| 58           | 3.4             | 25.30                 | 58           | 0.0             | 24.58                 | 58           | 0.0             | 22.86                 |
| 60           | 3.4             | 25.32                 | 60           | 0.0             | 24.61                 | 60           | 0.0             | 22.88                 |
| 62           | 3.4             | 25.36                 | 62           | 0.0             | 24.63                 | 62           | 0.0             | 22.89                 |
| 70           | 3.6             | 25.33                 | 70           | 0.0             | 24.64                 | 70           | 0.0             | 22.93                 |
| 72           | 3.6             | 25.13                 | 72           | 0.0             | 24.64                 | 72           | 0.0             | 22.94                 |
| 74           | 2.8             | 25.26                 | 74           | 0.0             | 24.62                 | 74           | 0.0             | 22.94                 |
| 76           | 4.0             | 25.28                 | 76           | 0.0             | 24.64                 | 76           | 0.0             | 22.95                 |
| 78           | 3.8             | 25.10                 | 78           | 0.0             | 24.52                 | 78           | 0.0             | 22.83                 |
| 80           | 4.0             | 25.11                 | 80           | 0.0             | 24.51                 | 80           | 0.0             | 22.85                 |
| 82           | 4.0             | 25.08                 | 82           | 0.0             | 24.56                 | 82           | 0.0             | 22.85                 |
| 84           | 3.2             | 25.14                 | 84           | 0.0             | 24.59                 | 84           | 0.0             | 22.91                 |
| 86           | 3.8             | 25.16                 | 86           | 0.0             | 24.61                 | 86           | 0.0             | 22.92                 |
| 94           | 4.0             | 25.16                 | 94           | 0.0             | 24.62                 | 94           | 0.0             | 22.93                 |
| 96           | 3.8             | 25.16                 | 96           | 0.0             | 24.63                 | 96           | 0.0             | 22.93                 |

\*Relative to top of well casing.

Vapors (approximate equivalent of 5.47 gallons of gasoline) were recovered as emissions during the two events. Off-gas treatment was provided during the events as directed by the SCDHEC Project Manager.

**7. Free Product Thickness Table**

Free Product Thickness Table (Event 1) – Attached

Free Product Thickness Table (Event 2) – Attached

**8. AFVR Event Map**

Figure F-8 AFVR Map (Events 1 & 2) – Attached

**9. Recovery Water Disposal**

The disposal manifests and weigh tickets for the recovery water generated during the October 4-8, 2021, and October 11-15, 2021, AFVR Events are included in Appendix G.

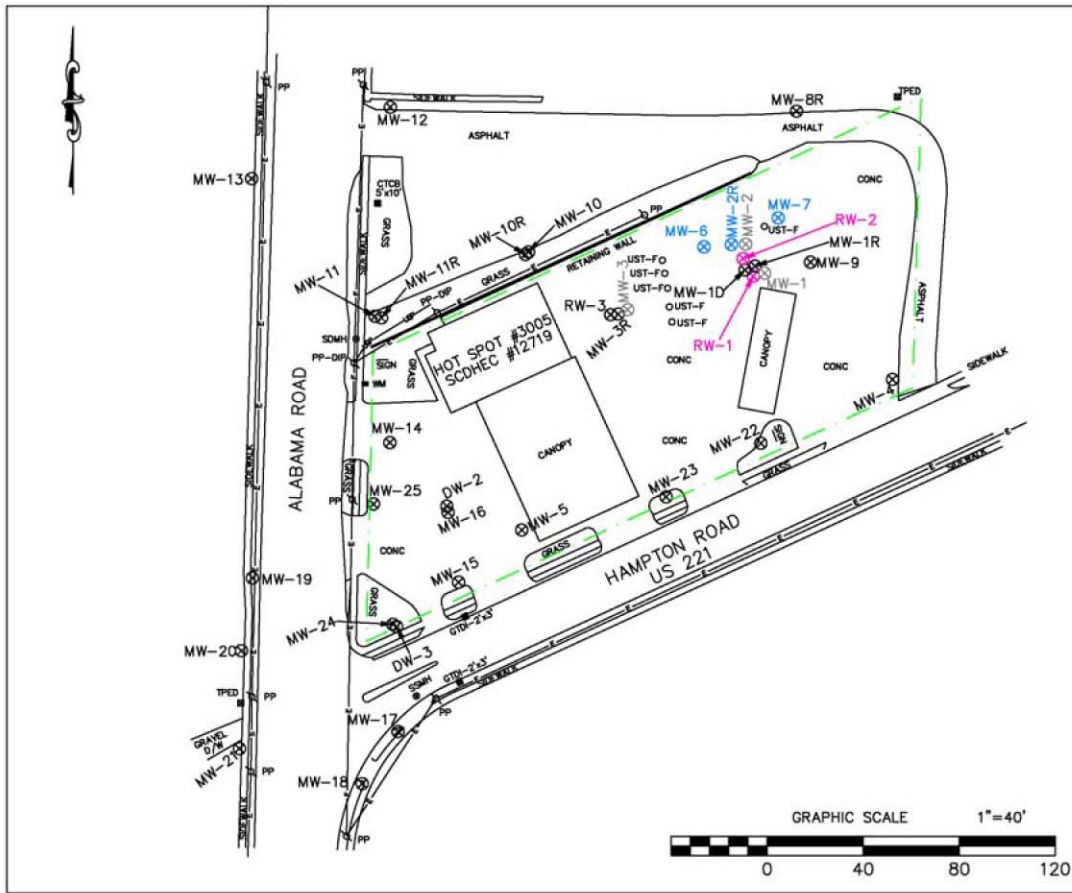


**SECTION F-7**  
**FREE PRODUCT THICKNESS TABLE (EVENT 1)**  
**HOT SPOT #3005**  
**CHESNEE, SOUTH CAROLINA**  
**SCDHEC UST PERMIT #12719**  
**OCTOBER 4-8, 2021**

| <b>Well #</b> | <b>--</b> | <b>Depth to Product</b> | <b>Depth to Water</b> | <b>Product Thickness</b> |
|---------------|-----------|-------------------------|-----------------------|--------------------------|
| RW-1          | Initial   | 23.81                   | 24.24                 | 0.43                     |
|               | Final     | n/a                     | 25.68                 | n/a                      |
| RW-2          | Initial   | 23.05                   | 23.44                 | 0.39                     |
|               | Final     | n/a                     | 24.45                 | n/a                      |
| MW-2R         | Initial   | n/a                     | 23.01                 | n/a                      |
|               | Final     | n/a                     | 25.18                 | n/a                      |
| MW-6          | Initial   | n/a                     | 23.40                 | n/a                      |
|               | Final     | n/a                     | 24.71                 | n/a                      |
| MW-7          | Initial   | n/a                     | 21.86                 | n/a                      |
|               | Final     | n/a                     | 22.86                 | n/a                      |


**SECTION F-7**  
**FREE PRODUCT THICKNESS TABLE (EVENT 2)**  
**HOT SPOT #3005**  
**CHESNEE, SOUTH CAROLINA**  
**SCDHEC UST PERMIT #12719**  
**OCTOBER 11-15, 2021**

| <b>Well #</b> | <b>--</b> | <b>Depth to Product</b> | <b>Depth to Water</b> | <b>Product Thickness</b> |
|---------------|-----------|-------------------------|-----------------------|--------------------------|
| RW-1          | Initial   | 23.32                   | 23.39                 | 0.07                     |
|               | Final     | n/a                     | 25.16                 | n/a                      |
| RW-2          | Initial   | 23.35                   | 23.43                 | 0.08                     |
|               | Final     | n/a                     | 24.62                 | n/a                      |
| MW-2R         | Initial   | n/a                     | 23.29                 | n/a                      |
|               | Final     | n/a                     | 25.16                 | n/a                      |
| MW-6          | Initial   | n/a                     | 23.74                 | n/a                      |
|               | Final     | n/a                     | 24.63                 | n/a                      |
| MW-7          | Initial   | n/a                     | 22.13                 | n/a                      |
|               | Final     | n/a                     | 22.93                 | n/a                      |



**LEGEND & ABBREVIATIONS:**

- ⊗ MW = MONITORING WELL
  - ⊗ ABANDONED MONITORING WELL
  - ⊗ TPED = TELEPHONE PEDESTAL
  - ⊗ SDMH = STORM DRAIN MAN HOLE
  - ⊗ SSMH = SANITARY SEWER MAN HOLE
  - ⊗ WM = WATER METER
  - ⊗ PP = POWER POLE
  - ⊗ LP = LIGHT POLE
  - ⊗ GM = GAS METER
  - ⊗ CV = GAS VALVE
  - ⊗ USTF = UNDERGROUND STORAGE TANK FILL
  - ⊗ GTCS = GRATE TOP CATCH BASIN
  - ⊗ SIGN = SIGN
  - ⊗ KD = KEROSENE DISPENSER
  - E — = OVERHEAD POWER LINE
  - UFP — = UNDERGROUND POWER LINE
  - — — = APPROXIMATE PROPERTY LINE
- ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (ie. 12719-MW 1)
- ⊗ RECOVERY WELL
  - ⊗ INFLUENCE WELL



**TERRY ENVIRONMENTAL SERVICES**  
CLIENTS FIRST ALWAYS

**FIGURE F-8**  
**AFVR MAP (EVENTS 1 & 2)**

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

|                 |                    |
|-----------------|--------------------|
| TERRY PROJECT # | SCDHEC SITE ID #   |
| 2230.8M         | 12719              |
| SCALE: 1" = 40' | DATE: October 2021 |

**G. GRANULATED ACTIVATED CARBON INSTALLATION**

Not Applicable. No granulated activated carbon units were installed during this scope of work.

## **H. RESULTS & DISCUSSION**

### **1. Assessment Results**

During this scope of work, TERRY conducted two separate 96-hour AFVR events in accordance with the SCDHEC UST QAPP, Revision 3.1. Prior to the October 4-8, 2021, event, free-phase product was measured in monitoring/recovery wells RW-1 (0.43 feet) and RW-2 (0.39 feet). Upon completion of the event, no free-phase product was measured in the recovery or influence wells monitored during event one. Prior to the October 11-15, 2021, event, free-phase product was measured in monitoring/recovery wells RW-1 (0.07 feet) and RW-2 (0.08 feet). Upon completion of the event, no free-phase product was measured in the recovery or influence wells monitored during event two. A total of 34.16 pounds of gasoline vapors (approximate equivalent of 5.47 gallons of gasoline) were recovered as emissions during the two events.

The AFVR events were successful at reducing free-phase product thickness and recovering contaminant mass. TERRY recommends conducting a comprehensive groundwater sampling event to confirm and to monitor free-phase rebound and contaminant concentrations.

### **2. Aquifer Evaluation Results**

Not Applicable

### **3. Fate & Transport Results**

Not Applicable

### **4. Tier 1 Risk Evaluation**

Not Applicable

### **5. Tier 2 Risk Evaluation**

Not Applicable

**I. TABLES**

**1. Soil Analytical Data**

Table 1 Soil Analytical Data - Not Applicable

**2. Potentiometric Data**

Table 2 Potentiometric Data - Not Applicable

**3. Laboratory Data**

Table 3 Groundwater Laboratory Data - Not Applicable

**4. Aquifer Characteristics**

Table 4 Aquifer Characteristics - Not Applicable

**5. Site Conceptual Model**

Table 5 Site Conceptual Model - Not Applicable

## **J. FIGURES**

### **1. Topographic Map**

Figure 1 Topographic Map - Attached

### **2. Site Base Map**

Figure 2 Site Base Map - Attached

### **3. CoC Site Maps**

Figure 3 Soil CoC Map - Not Applicable

Figure 4 Groundwater CoC Map - Not Applicable

### **4. Site Potentiometric Maps**

Figure 5 Site Potentiometric Map – Not Applicable

### **5. Geologic Cross Sections**

Figure 6 Geologic Cross Sections - Not Applicable

### **6. Predicted Migration and Attenuation of CoCs**

Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable

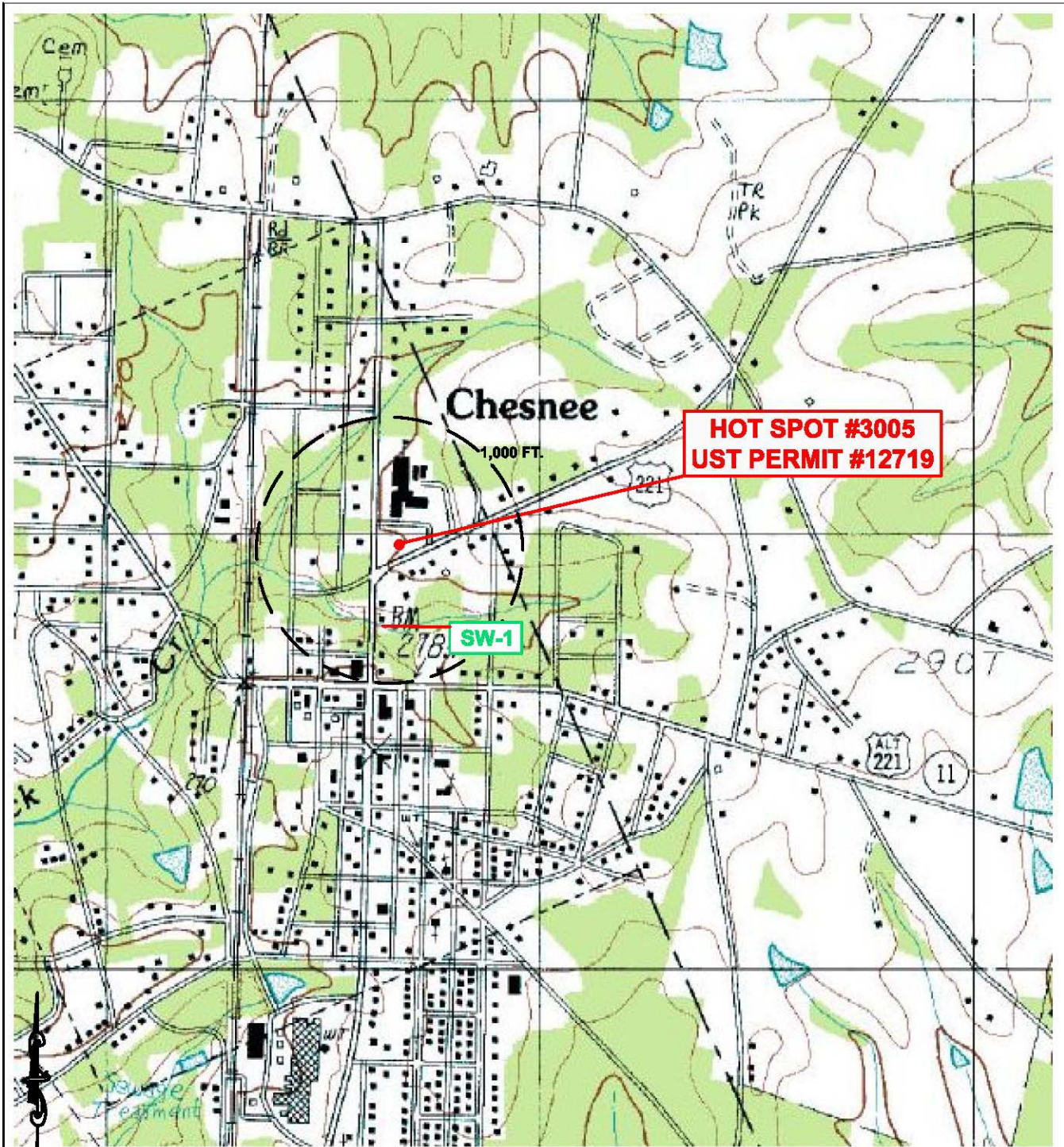


Image courtesy of the U.S. Geological Survey



## FIGURE 1 TOPOGRAPHIC MAP

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

*... providing our clients with the best services available,  
actually understanding our clients objectives,  
and making their objectives our own!*

SIZE  
B

TERRY Project No.  
2230.8M

DWG NO.

Figure 1 Topographic Map

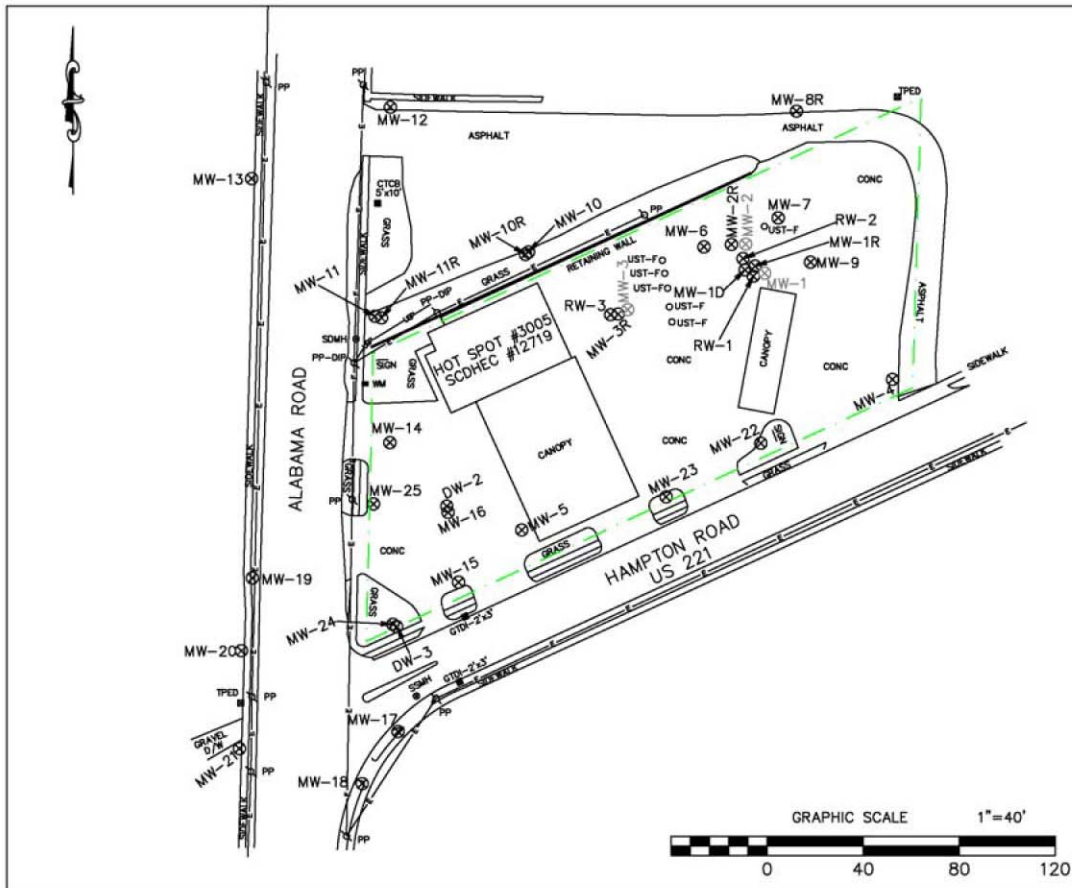
REV

PO Box 25  
Summerville, South Carolina 29484  
(800) 325-0605 (843)-873-8200 fax: (843)-873-8785

SCALE: As Shown


DATE: October 2021





**LEGEND & ABBREVIATIONS:**

- ⊗ MW = MONITORING WELL
  - ⊘ ABANDONED MONITORING WELL
  - ⊙ TPED = TELEPHONE PEDESTAL
  - ⊕ SDMH = STORM DRAIN MAN HOLE
  - ⊖ SSMH = SANITARY SEWER MAN HOLE
  - ⊗ WM = WATER METER
  - ⊕ PP = POWER POLE
  - ⊖ LP = LIGHT POLE
  - ⊗ GM = GAS METER
  - ⊖ CV = GAS VALVE
  - ⊕ USTF = UNDERGROUND STORAGE TANK FILL
  - ⊖ GTCB = GRATE TOP CATCH BASIN
  - ⊗ SIGN = SIGN
  - ⊖ KD = KEROSENE DISPENSER
  - E — = OVERHEAD POWER LINE
  - UFP — = UNDERGROUND POWER LINE
  - — — = APPROXIMATE PROPERTY LINE
- ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (i.e. 12719-MW 1)



**TERRY**  
ENVIRONMENTAL SERVICES  
CLIENTS FIRST ALWAYS

**FIGURE 2  
SITE BASE MAP**

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

|                 |                    |
|-----------------|--------------------|
| TERRY PROJECT # | SCONEC SITE ID #   |
| 2230.8M         | 12719              |
| SCALE: 1" = 40' | DATE: October 2021 |

**K. APPENDICES**

**1. Appendix A: Site Survey**

Not Applicable

**2. Appendix B: Sampling Logs and Laboratory Data**

Not Applicable

**3. Appendix C: Tax Map**

Not Applicable

**4. Appendix D: Soil Boring/Field Screening Logs**

Not Applicable

**5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms**

Not Applicable

**6. Appendix F: Aquifer Evaluation Forms**

Not Applicable

**7. Appendix G: Disposal Manifests**

**8. Appendix H: Local Zoning Regulations**

Not Applicable

**9. Appendix I: Fate and Transport Modeling Data**

Not Applicable

**10. Appendix J: Access Agreements**

Not Applicable

**11. Appendix K: Data Verification Checklist**

**APPENDIX A**

**Site Survey  
(Not Applicable)**

## **APPENDIX B**

### **Sampling Logs and Laboratory Data (Not Applicable)**

**APPENDIX C**

**Tax Map  
(Not Applicable)**

**APPENDIX D**

**Soil Boring/Field Screening Logs  
(Not Applicable)**

**APPENDIX E**

**Well Completion Logs/SCDHEC 1903 Forms  
(Not Applicable)**

**APPENDIX F**




**Aquifer Evaluation Forms  
(Not Applicable)**



**APPENDIX G**

**Disposal Manifests**

# US Water Recovery

|   |            |   |                       |
|---|------------|---|-----------------------|
| <b>Non-Hazardous Manifest: Waste Water or Drums</b>   |            | <b>Number:</b>  |                       |
| 1. Generator's EPA ID# (if applicable):   |            | Waste ID Number:  |                       |
| 2. Generator's Name and Mailing Address:<br><i>Hot Spot<br/>107 Hampton St.<br/>Chesnee, SC.</i>  |            | Phone ( )   |                       |
|   |            | P O #:  |                       |
| 3. Agent of Generator and Mailing Address:<br><i>Terry Environmental</i>  |            | Phone ( )   |                       |
|   |            | P O #:  |                       |
| 4. Transporter Company Name:<br><i>Goodsell Transport</i>   |            | Phone ( )   |                       |
| Truck & Trailer License Number:   |            |   |                       |
| 5. Transporter U.S. EPA ID#:  |            |   |                       |
| 6. Facility Name and Site Address:<br>US Water Recovery<br>511 Old Mt. Holly Rd.<br>Goose Creek, SC 29445   |            | Mailing Address:<br>US Water Recovery<br>511 Old Mt. Holly Rd.<br>Goose Creek, SC 29445         |                       |
|   |            | Phone: (843) 797-3111   |                       |
|   |            | Fax: (843) 797-1884   |                       |
| 7. Facility U.S. EPA ID#:   |            |   |                       |
| Start Level:  | End Level: | Total Gallons:  | Tank Number           |
| 8. U.S. DOT Description   | Container  |   | Unit                  |
|   | No.        | Type  |                       |
| a. Non-Hazardous, non-regulated waste water   | 108        | VT Gal  | 5707                  |
|   |            |   |                       |
|   |            |   |                       |
|   |            |   |                       |
| 9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility. |            |   |                       |
| Printed/Typed Name: <i>Jake Marek</i>   |            | Signature:   | Date: <i>10-11-21</i> |
| 10. Transporter Acknowledgement of Receipt of Materials   |            |   |                       |
| Printed/Typed Name: <i>GUY PIERSON</i>  |            | Signature:  | Date:                 |
| 11. Discrepancy Indication space:   |            |   |                       |
| 12. Facility Owner or Operator: Certification of Receipt of Materials   |            |   |                       |
| Printed/Typed Name: <i>Paul Goodsell</i>  |            | Signature:  | Date: <i>10-11-21</i> |

White - Facility      Yellow - Office      Pink - Transporter      Blue - Generator

20480774

TICKET NUMBER



# CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY  
P.O. BOX 630  
WALCOTT, IA 52773  
(877) 228-7225  
www.catscale.com

20480774

14:46

PUBLIC WEIGHMASTER'S  
CERTIFICATE OF  
WEIGHT & MEASURE



WEIGH NUMBER  
0774

CUSTOMER COPY

### THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.®

### WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
- (2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

### IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit [www.catscaleguarantee.com](http://www.catscaleguarantee.com) for instructions.
- 3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

\*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

|           |                      |               |       |    |
|-----------|----------------------|---------------|-------|----|
| DATE:     | 10-11-21             | STEER AXLE    | 9920  | 1b |
| SCALE:    | 968                  | DRIVE AXLE    | 34640 | 1b |
| LOCATION: | PILOT TRAVEL CENTERS | TRAILER AXLE  | 33920 | 1b |
|           | I-26 EXIT 139        | *GROSS WEIGHT | 78480 | 1b |
|           | ST. MATHEWS SC       |               |       |    |

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

47,540 net = 5,707 G

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANY GOODSELL

TRACTOR # 06

TRAILER # 108

FEE \$12.50

WEIGHMASTER OR  
WEIGHER SIGNATURE J. Arsha

TICKET # OF  
FULL \$ WEIGH  
(IF REWEIGH)

89676347

TICKET NUMBER



# CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY  
P.O. BOX 630  
WALCOTT, IA 52773  
(563) 284-6263  
www.catscale.com



PUBLIC WEIGHMASTER'S  
CERTIFICATE OF  
WEIGHT & MEASURE

IMPRINT SEAL HERE  
(IF APPLICABLE)

WEIGH NUMBER  
6347

CUSTOMER COPY

## THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

### WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
- (2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

### IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit [www.catscaleguarantee.com](http://www.catscaleguarantee.com) for instructions.
- 3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

\* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

|           |  |                |          |
|-----------|--|----------------|----------|
| DATE:     | 11-21-19                                       | STEER AXLE     | 9720 lb  |
| SCALE:    | 162F   | DRIVE AXLE     | 12040 lb |
| LOCATION: | FLYING J PITCO<br>I 95 EXIT 77<br>ST GEORGE SC | TRAILER AXLE   | 9180 lb  |
|           |  | * GROSS WEIGHT | 30940 lb |

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT AND FUNDS

COMPANY

GOOD SAIR

TRACTOR #

TRAILER #

FEE



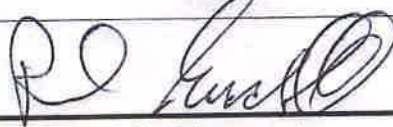
\$12.00

WEIGHMASTER OR  
WEIGHER SIGNATURE

TICKET # OF  
FULL \$ WEIGH  
(IF REWEIGH)

DRIVER IN TRUCK MUST SIGN CHECKOFF HERE.

# US Water Recovery

| <b>Non-Hazardous Manifest: Waste Water or Drums</b>  |            | <b>Number:</b>  |            |                       |
|--|------------|---|------------|-----------------------|
| 1. Generator's EPA ID# (if applicable):  |            | Waste ID Number:  |            |                       |
| 2. Generator's Name and Mailing Address:<br><i>Hot Spot</i><br><i>108 Hampton St.</i><br><i>Chesnee, SC</i>  |            | Phone ( )   |            |                       |
|  |            | P O #:  |            |                       |
| 3. Agent of Generator and Mailing Address:<br><br><i>Terry Environmental</i>   |            | Phone ( )   |            |                       |
|  |            | P O #:  |            |                       |
| 4. Transporter Company Name:<br><br><i>Goodsell Transport</i>  |            | Phone ( )   |            |                       |
| Truck & Trailer License Number:  |            |   |            |                       |
| 5. Transporter U.S. EPA ID#:   |            |   |            |                       |
| 6. Facility Name and Site Address:<br>US Water Recovery<br>511 Old Mt. Holly Rd.<br>Goose Creek, SC 29445  |            | Mailing Address:<br>US Water Recovery<br>511 Old Mt. Holly Rd.<br>Goose Creek, SC 29445         |            |                       |
|  |            | Phone: (843) 797-3111   |            |                       |
|  |            | Fax: (843) 797-1884   |            |                       |
| 7. Facility U.S. EPA ID#:  |            |   |            |                       |
| Start Level:   |            | End Level:  |            |                       |
|  |            | Total Gallons:  |            |                       |
|  |            | Tank Number   |            |                       |
| 8. U.S. DOT Description  | Container  |   | Unit       | Quantity              |
|  | No.        | Type  |            |                       |
| a. Non-Hazardous, non-regulated waste water  | <i>108</i> | <i>VT</i>   | <i>Gal</i> | <i>5076</i>           |
|  |            |   |            |                       |
|  |            |   |            |                       |
|  |            |   |            |                       |
| 9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility. |            |   |            |                       |
| Printed/Typed Name: <i>Jake Marek</i>  |            | Signature:  |            | Date: <i>10-14-21</i> |
| 10. Transporter Acknowledgement of Receipt of Materials<br>Printed/Typed Name: <i>Guy Pierson</i>  |            | Signature:  |            | Date: <i>10-14-21</i> |
| 11. Discrepancy Indication space:  |            |   |            |                       |
| 12. Facility Owner or Operator: Certification of Receipt of Materials<br>Printed/Typed Name: <i>Paul Goodell</i>   |            | Signature:  |            | Date: <i>10-14-21</i> |

White - Facility      Yellow - Office      Pink - Transporter      Blue - Generator

20837

TICKET NUMBER  
1197621287333



# CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY  
P.O. BOX 630  
WALCOTT, IA 52773  
(877) 228-7225  
www.catscale.com

15:35

**PUBLIC WEIGHMASTER'S  
CERTIFICATE OF  
WEIGHT & MEASURE**



WEIGH NUMBER  
7333

CUSTOMER COPY

### THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash. ☺

### WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
- (2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

### IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit [www.catscaleguarantee.com](http://www.catscaleguarantee.com) for instructions.
- 3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

\* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

|           |               |                |          |
|-----------|---------------|----------------|----------|
| DATE:     | 10-14-21      | STEER AXLE     | 9880 lb  |
| SCALE:    | 1976          | DRIVE AXLE     | 32140 lb |
| LOCATION: | FLYING J      | TRAILER AXLE   | 31200 lb |
|           | I 26 EXIT 194 | * GROSS WEIGHT | 73220 lb |
|           | JEDBURG SC    |                |          |

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

42,280 net = 5,0766

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY GOOD SELL TRACTOR # 06 TRAILER # 108

FEE \$12.50 WEIGHMASTER OR WEIGHER SIGNATURE [Signature] TICKET # OF FULL \$ WEIGH (IF REWEIGH)

© CAT Scale® Reg 3075 5/21

DRIVER IN TRUCK UNLESS CHECKED HERE:

69876347

TICKET NUMBER



# CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY  
P.O. BOX 630  
WALCOTT, IA 52773  
(563) 284-6263  
www.catscale.com



PUBLIC WEIGHMASTER'S  
CERTIFICATE OF  
WEIGHT & MEASURE

IMPRINT SEAL HERE  
(IF APPLICABLE)

WEIGH NUMBER  
6347

CUSTOMER COPY

## THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.®

### WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong. **OR**
- (2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

### IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit [www.catscaleguarantee.com](http://www.catscaleguarantee.com) for instructions.
- 3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

\*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

|           |                |                |          |
|-----------|----------------|----------------|----------|
| DATE:     | 11-21-16       | STEER AXLE     | 9720 lb  |
| SCALE:    | 1625           | DRIVE AXLE     | 12040 lb |
| LOCATION: | FLYING J PILOT | TRAILER AXLE   | 9180 lb  |
|           | I 35 EXIT 77   | * GROSS WEIGHT | 30940 lb |
|           | ST GEORGE SC   |                |          |

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY GOOD SALE TRACTOR # 00 TRAILER # 100

FEE \$12.00 WEIGHMASTER OR TARTHE SMITH TICKET # OF FULL \$ WEIGH (IF REWEIGH)

WEIGH FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

# US Water Recovery

|   |            |   |             |
|---|------------|---|-------------|
| <b>Non-Hazardous Manifest: Waste Water or Drums</b>   |            | <b>Number:</b>  |             |
| 1. Generator's EPA ID# (if applicable):   |            | Waste ID Number:  |             |
| 2. Generator's Name and Mailing Address:<br><i>Hot Spot<br/>107 Hampton St.<br/>Chesnee, SC.</i>  |            | Phone ( )   |             |
|   |            | P O #:  |             |
| 3. Agent of Generator and Mailing Address:  |            | Phone ( )   |             |
|   |            | P O #:  |             |
| 4. Transporter Company Name:<br><i>Goodsell Transport</i>   |            | Phone ( )   |             |
| Truck & Trailer License Number:   |            |   |             |
| 5. Transporter U.S. EPA ID#:  |            |   |             |
| 6. Facility Name and Site Address:<br>US Water Recovery<br>511 Old Mt. Holly Rd.<br>Goose Creek, SC 29445   |            | Mailing Address:<br>US Water Recovery<br>511 Old Mt. Holly Rd.<br>Goose Creek, SC 29445 |             |
|   |            | Phone: (843) 797-3111   |             |
|   |            | Fax: (843) 797-1884   |             |
| 7. Facility U.S. EPA ID#:   |            |   |             |
| Start Level:  | End Level: | Total Gallons:  | Tank Number |
| 8. U.S. DOT Description   |            | Container   |             |
|   |            | Unit  |             |
|   |            | Quantity  |             |
|   |            | No.   | Type        |
| a. Non-Hazardous, non-regulated waste water   |            | <i>108</i>  | <i>VT</i>   |
|   |            |   | <i>Gal</i>  |
|   |            |   | <i>5573</i> |
| 9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility. |            |   |             |
| Printed/Typed Name:   |            | Signature:  |             |
|   |            | Date:   |             |
| 10. Transporter Acknowledgement of Receipt of Materials   |            |   |             |
| Printed/Typed Name: <i>Guy Pierson</i>  |            | Signature: <i>Guy Pierson</i>   |             |
|   |            | Date: <i>10-18-21</i>   |             |
| 11. Discrepancy Indication space:   |            |   |             |
| 12. Facility Owner or Operator: Certification of Receipt of Materials   |            |   |             |
| Printed/Typed Name: <i>Paul Goodsell</i>  |            | Signature: <i>Paul Goodsell</i>   |             |
|   |            | Date: <i>10-18-21</i>   |             |



TICKET NUMBER  
1197621291516



# CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY  
P.O. BOX 630  
WALCOTT, IA 52773  
(877) 228-7225  
www.catscale.com

12:51

PUBLIC WEIGHMASTER'S  
CERTIFICATE OF  
WEIGHT & MEASURE



WEIGH NUMBER  
1516

**THE CAT SCALE GUARANTEE**  
The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.®

### WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
- (2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

### IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit [www.catscaleguarantee.com](http://www.catscaleguarantee.com) for instructions.
- 3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

\* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

|           |               |                |       |    |
|-----------|---------------|----------------|-------|----|
| DATE:     | 10-18-21      | STEER AXLE     | 10180 | 1b |
| SCALE:    | 1976          | DRIVE AXLE     | 33980 | 1b |
| LOCATION: | FLYING J      | TRAILER AXLE   | 33200 | 1b |
|           | I 26 EXIT 194 | * GROSS WEIGHT | 77360 | 1b |
|           | JEDBURG SC    |                |       |    |

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

*46,420 net = 5,5736*

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANY GOODSELL

TRACTOR # 06

TRAILER # 108

FEE \$12.50

WEIGHMASTER OR  
WEIGHER SIGNATURE

*[Handwritten Signature]*

TICKET # OF  
FULL \$ WEIGH  
(IF REWEIGH)

CUSTOMER COPY

© CAT Scale® Reg 3075 5/21

WEIGH  
FASTER  
WITH OUR APP.  
FIND OUT MORE AT  
WEIGHMYTRUCK.COM

69676347

TICKET NUMBER



# CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY  
P.O. BOX 630  
WALCOTT, IA 52773  
(563) 284-6263  
www.catscale.com



PUBLIC WEIGHMASTER'S  
CERTIFICATE OF  
WEIGHT & MEASURE

IMPRINT SEAL HERE  
(IF APPLICABLE)

## THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

### WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
- (2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

### IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit [www.catscaleguarantee.com](http://www.catscaleguarantee.com) for instructions.
- 3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

\*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

|           |  |                |          |
|-----------|--|----------------|----------|
| DATE:     | 11-21-19                                       | STEER AXLE     | 9720 lb  |
| SCALE:    | 1625   | DRIVE AXLE     | 12040 lb |
| LOCATION: | FLYING J PILOT<br>I 95 EXIT 77<br>ST GEORGE SC | TRAILER AXLE   | 9180 lb  |
|           |  | * GROSS WEIGHT | 30940 lb |

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT AND KINDS

COMPANY GOOD SALE TRACTOR # 106 TRAILER # 109

FEE \$12.00 WEIGHMASTER OR WEIGHER SIGNATURE TABITHA SHUTER TICKET # OF FULL \$ WEIGH (IF REWEIGH)

WEIGH NUMBER  
6347

CUSTOMER COPY

WEIGH  
FASTER  
WITH OUR APP  
FIND OUT MORE AT  
WEIGHMYTRUCK.COM

**APPENDIX H**

**Local Zoning Regulations  
(Not Applicable)**

**APPENDIX I**

**Fate and Transport Modeling Data  
(Not Applicable)**

**APPENDIX J**

**Access Agreements  
(Not Applicable)**

## **APPENDIX K**

### **Data Verification Checklist**

## Contractor Checklist – Hot Spot #3005

**UST Permit #12719 - TERRY Project #2230.8M**

| Item # | Item   | Yes | No | N/A |
|--------|--|-----|----|-----|
| 1      | Is Facility Name, Permit #, and address provided?  | X   |    |     |
| 2      | Is UST Owner/Operator name, address, & phone number provided?  | X   |    |     |
| 3      | Is name, address, & phone number of current property owner provided?   | X   |    |     |
| 4      | Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?             | X   |    |     |
| 5      | Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?     |     |    | X   |
| 6      | Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided? |     |    | X   |
| 7      | Has the facility history been summarized?  | X   |    |     |
| 8      | Has the regional geology and hydrogeology been described?  | X   |    |     |
| 9      | Are the receptor survey results provided as required?  |     |    | X   |
| 10     | Has current use of the site and adjacent land been described?  | X   |    |     |
| 11     | Has the site-specific geology and hydrogeology been described?   | X   |    |     |
| 12     | Has the primary soil type been described?  |     |    | X   |
| 13     | Have field screening results been described?   |     |    | X   |
| 14     | Has a description of the soil sample collection and preservation been detailed?  |     |    | X   |
| 15     | Has the field screening methodology and procedure been detailed?   |     |    | X   |
| 16     | Has the monitoring well installation and development dates been provided?  |     |    | X   |
| 17     | Has the method of well development been detailed?  |     |    | X   |
| 18     | Has justification been provided for the locations of the monitoring wells?   |     |    | X   |
| 19     | Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?   | X   |    |     |
| 20     | Has the groundwater sampling methodology been detailed?  |     |    | X   |
| 21     | Have the groundwater sampling dates and groundwater measurements been provided?  |     |    | X   |
| 22     | Has the purging methodology been detailed?   |     |    | X   |
| 23     | Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?                    |     |    | X   |
| 24     | If free-product is present, has the thickness been provided?   | X   |    |     |
| 25     | Does the report include a brief discussion of the assessment done and the results?   | X   |    |     |
| 26     | Does the report include a brief discussion of the aquifer evaluation and results?  |     |    | X   |
| 27     | Does the report include a brief discussion of the fate & transport models used?  |     |    | X   |
| 28     | Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)  |     |    | X   |
| 29     | Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)   |     |    | X   |
| 30     | Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)   |     |    | X   |
| 31     | Have recommendations for further action been provided and explained?   | X   |    |     |
| 32     | Has the soil analytical data for the site been provided in tabular format? (Table 1)   |     |    | X   |
| 33     | Has the potentiometric data for the site been provided in tabular format? (Table 2)  |     |    | X   |
| 34     | Has the current and historical laboratory data been provided in tabular format?  |     |    | X   |

| Item # | Item   | Yes | No | N/A |
|--------|--|-----|----|-----|
| 35     | Have the aquifer characteristics been provided and summarized on the appropriate form?   |     |    | X   |
| 36     | Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)  |     |    | X   |
| 37     | Has the topographic map been provided with all required elements? (Figure 1)   | X   |    |     |
| 38     | Has the site base map been provided with all required elements? (Figure 2)   | X   |    |     |
| 39     | Have the CoC site maps been provided? (Figure 3 & Figure 4)  |     |    | X   |
| 40     | Has the site potentiometric map been provided? (Figure 5)  |     |    | X   |
| 41     | Have the geologic cross-sections been provided? (Figure 6)   |     |    | X   |
| 42     | Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)                             |     |    | X   |
| 43     | Has the site survey been provided and include all necessary elements? (Appendix A)   |     |    | X   |
| 44     | Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B) |     |    | X   |
| 45     | Is the laboratory performing the analyses properly certified?  |     |    | X   |
| 46     | Has the tax map been included with all necessary elements? (Appendix C)  |     |    | X   |
| 47     | Have the soil boring/field screening logs been provided? (Appendix D)  |     |    | X   |
| 48     | Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)   |     |    | X   |
| 49     | Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)   |     |    | X   |
| 50     | Have the disposal manifests been provided? (Appendix G)  | X   |    |     |
| 51     | Has a copy of the local zoning regulations been provided? (Appendix H)   |     |    | X   |
| 52     | Has all fate and transport modeling been provided? (Appendix I)  |     |    | X   |
| 53     | Have copies of all access agreements obtained by the contractor been provided? (Appendix J) – Transmittal Letter                       |     |    | X   |
| 54     | Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?       | X   |    |     |

Explanation for missing and incomplete information?

Not Applicable for the current directive.





JUN 21 2022



CYNDI SUTTLES  
RL JORDAN OIL CO OF NC INC  
PO BOX 2527  
SPARTANBURG SC 29304-2527

Re: **Site-Specific Work Plan Request for Groundwater Sampling**  
Hot Spot #6005, 107 Hampton St., Chesnee, SC  
UST Permit #12719  
Release reported August 4, 2003  
Aggressive Fluid Vapor Recovery Report received October 28, 2021  
Spartanburg County

Dear Ms. Suttles:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by your contractor. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels.

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations R.61-92, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in compliance with the current revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan, and all applicable regulations. The QAPP is available at [scdhec.gov/Environment/Land-Waste/Underground-Storage-Tanks/Release-Assessment-Clean/Quality-Assurance](http://scdhec.gov/Environment/Land-Waste/Underground-Storage-Tanks/Release-Assessment-Clean/Quality-Assurance).

Groundwater samples should be collected from all monitoring wells associated with this release along with all water supply wells and surface waters within a 1,000 foot radius of the site. Samples should be analyzed for BTEX, Naphthalene, MTBE, 1,2-DCA, the 8 oxygenates, and EDB. Only wells with screens that do not bracket the water table should be purged prior to sampling.

**Your contractor must complete the SSWP and submit it within 30 days from the date of this letter.** Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

On all correspondence concerning this site, please reference UST Permit number above. Should you have any questions, please contact me by phone at (803) 898-0655, by fax at (803) 898-0673, or by email at [hofferqm@dhec.sc.gov](mailto:hofferqm@dhec.sc.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Quincy Hoffer". The signature is fluid and cursive, with the first name "Quincy" and last name "Hoffer" clearly distinguishable.

Quincy Hoffer, Hydrogeologist  
Corrective Action & Quality Assurance Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

cc: Terry Environmental Services Inc., PO Box 25, Summerville, SC 29484  
Technical file



Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division



To: Quincy Hoffer (SCDHEC Project Manager)
From: Kelly Cone (Contractor Project Manager)
Contractor: TERRY Environmental Services, Inc. UST Contractor Certification Number: UCC-0223

Facility Name: Hot Spot #3005 UST Permit #: 12719
Facility Address: 107 Hampton Street, Chesnee, South Carolina 29323
Responsible Party: RL Jordan Oil Co. of NC (Contact: Ms. Cyndi Suttles) Phone: 864-585-2784
RP Address: PO Box 2527, Spartanburg, SC 29304
Property Owner (if different): EJ Enterprises Inc.
Property Owner Address: PO Box 2527, Spartanburg, SC 29304
Current Use of Property: Commercial



Scope of Work (Please check all that apply)

- IGWA, Tier I, Tier II, Monitoring Well Installation, Groundwater Sampling, Other, GAC

Analyses (Please check all that apply)

- Groundwater/Surface Water: BTEXNMDCA, Oxygenates, EDB, PAH, Lead, 8 RCRA Metals, TPH, pH, BOD, Nitrate, Sulfate, Other, Methane, Ethanol, Dissolved Iron
Drinking Water Supply Wells: BTEXNMDCA, Oxygenates & Ethanol, Mercury, RCRA Metals, EDB
Soil: BTEXNM, PAH, Lead, Oil & Grease, RCRA Metals, TPH-DRO, TPH-GRO, Grain Size, TOC
Air: BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

Soil, Water Supply Wells, Air, Field Blank, Monitoring Wells, Surface Water, Duplicate, Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.
# of shallow points proposed: Estimated Footage: feet per point
# of deep points proposed: Estimated Footage: feet per point
Field Screening Methodology:

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.
# of shallow wells: Estimated Footage: feet per point
# of deep wells: Estimated Footage: feet per point
# of recovery wells: Estimated Footage: feet per point
Comments, if warranted:

UST Permit #: 12719 Facility Name: Hot Spot #3005

**Implementation Schedule** (Number of calendar days from approval)  
Field Work Start-Up: 14-30 days Field Work Completion: 30-45 days  
Report Submittal: 60 days # of Copies Provided to Property Owners: RP only

**Aquifer Characterization**  
Pump Test:  Slug Test:  (Check one and provide explanation below for choice)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Investigation Derived Waste Disposal**  
Soil: -- Tons Purge Water: 55 Gallons  
Drilling Fluids: -- Gallons Free-Phase Product: -- Gallons

**Additional Details For This Scope of Work**  
For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.  
Conduct a comprehensive groundwater sampling event: shallow monitoring wells MW-1R, MW-2R, MW-3R, MW-4 through MW-7, MW-8R, MW-9, MW-10, MW-10R, MW-11, MW-11R, MW-12 through MW-25; deep monitoring wells MW-1D, DW-2, and DW-3; recovery wells RW-1 through RW-3; and the surface water feature (SW-1) will be sampled. The existing monitoring wells were last sampled December 2019 and will only require purging if the water table is not bracket by the screened interval per SCDHEC request.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**  
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.  
Name of Laboratory: \_\_\_\_\_  
SCDHEC Certification Number: \_\_\_\_\_  
Name of Laboratory Director: \_\_\_\_\_  
  
\_\_\_\_ Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.  
Name of Well Driller: \_\_\_\_\_  
SCLLR Certification Number: \_\_\_\_\_  
  
\_\_\_\_ Other variations from ACQAP. Please describe below.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attachments**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:  
North Arrow Proposed monitoring well locations  
Location of property lines Legend with facility name and address, UST permit number, and bar scale  
Location of buildings Streets or highways (indicate names and numbers)  
Previous soil sampling locations Location of all present and former ASTs and USTs  
Previous monitoring well locations Location of all potential receptors  
Proposed soil boring locations
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



**ASSESSMENT COMPONENT INVOICE**

South Carolina

Department of Health and Environmental Control

Underground Storage Tank Management Division

State Underground Petroleum Environmental Response Bank Account

July 1, 2022

**Facility Name:** Hot Spot #3005

**UST Permit #:** 12719

**Cost Agreement #:** Proposed

| ITEM  | QUANTITY | UNIT     | UNIT PRICE | TOTAL      |
|---|----------|----------|------------|------------|
| <b>A. Plan Preparation</b>  |          |          |            |            |
| 1.1 Site-specific Work Plan   | 1        | each     | \$169.65   | \$169.65   |
| 2.1 Tax Map   |          | each     | \$79.17    | \$0.00     |
| 3.1 QAPP Contractor Addendum (App B)  |          | each     | \$250.00   | \$0.00     |
| <b>B. Survey *</b>  |          |          |            |            |
| 1. Receptor Survey  |          | each     | \$623.20   | \$0.00     |
| <b>C. Survey</b>  |          |          |            |            |
| 1.1 Comprehensive Survey  |          | each     | \$1,176.26 | \$0.00     |
| 5. Ground Penetrating Radar Survey (100 x 100)  |          | each     | \$1,029.23 | \$0.00     |
| <b>D. Mob/Demob</b>   |          |          |            |            |
| 1.1 Equipment   |          | each     | \$1,153.64 | \$0.00     |
| 2.1 Personnel (Jx2, Q)  | 3        | each     | \$478.42   | \$1,435.26 |
| 3.1 Adverse Terrain Vehicle   |          | each     | \$565.51   | \$0.00     |
| <b>E. Soil Borings*</b>   |          |          |            |            |
| 1. Soil Borings (hand auger)  |          | foot     | \$5.66     | \$0.00     |
| <b>F. Soil Borings (requiring equipment, push technology, etc) or Field Screening (including sampling and analyst)*</b> |          |          |            |            |
| 1.1 Standard  |          | per foot | \$16.97    | \$0.00     |
| 2.1 Fractured Rock  |          | per foot | \$21.84    | \$0.00     |
| <b>G.</b>   |          |          |            |            |
| <b>H. Well Abandonment (does not include Field Screening)*</b>  |          |          |            |            |
| 1.1 2" diameter or less   |          | per foot | \$3.51     | \$0.00     |
| 2.1 Greater than 2" to 6" diameter  |          | per foot | \$5.09     | \$0.00     |
| 3.1 Dug/Bored well (up to 6 feet diameter)  |          | per foot | \$16.96    | \$0.00     |
| <b>I. Well Installation (In accordance with R.61-71)*</b>   |          |          |            |            |
| 1.1 Water Table (hand augered)  |          | per foot | \$11.99    | \$0.00     |
| 2.A Water Table (drill rig) 2" Diameter   |          | per foot | \$42.98    | \$0.00     |
| 2.1 Single-cased 2" Diameter Monitoring Well >50ft  |          | per foot | \$43.46    | \$0.00     |
| 3.1 Telescoping   |          | per foot | \$56.55    | \$0.00     |
| 4.1 Rock Drilling   |          | per foot | \$65.60    | \$0.00     |
| 5.1 2" Rock Coring  |          | per foot | \$34.95    | \$0.00     |
| 6.1 Multi-sampling ports/screens  |          | per foot | \$37.78    | \$0.00     |
| 7.1 Recovery Well (4" diameter)   |          | per foot | \$50.90    | \$0.00     |
| 9.1 Rotasonic (2" diameter)   |          | per foot | \$49.77    | \$0.00     |
| 10.1 Re-develop Existing Well   |          | per foot | \$12.44    | \$0.00     |
| <b>J. Groundwater Sample Collection / Gauging Depth to Water/Product *</b>  |          |          |            |            |
| 1.1 Groundwater Purge   | 3        | per well | \$67.86    | \$203.58   |
| 2.1 Air or Vapors   |          | sample   | \$13.57    | \$0.00     |
| 3.1 Water Supply Sample   |          | sample   | \$24.88    | \$0.00     |

|  |    |            |          |            |
|--|----|------------|----------|------------|
| 4.1 HydraSleeve                              |    | sample     | \$53.00  | \$0.00     |
| 4.2A No-purge GW (30) Sample/SW (1)          | 31 | sample     | \$31.67  | \$981.77   |
| 5.1 Gauge Well only                          |    | sample     | \$7.92   | \$0.00     |
| 6.1 Sample Below Product                     |    | sample     | \$13.57  | \$0.00     |
| 7.1 Passive Diffusion Bag                    |    | sample     | \$29.40  | \$0.00     |
| 8.1 Field Dups (MWs & WSWs) and Field Blanks | 4  | sample     | \$27.83  | \$111.32   |
| 9.1 Groundwater (low flow purge)             |    | sample     | \$102.93 | \$0.00     |
| 10.1 Equipment Blank                         |    | sample     | \$27.83  | \$0.00     |
| 11. Sample Product                           |    | per well   | \$48.76  | \$0.00     |
| <b>K. Laboratory Analyses-Groundwater</b>    |    |            |          |            |
| 1.1 BTEXNM+Oxyg's+1,2 DCA+Eth(8260D)         | 40 | per sample | \$137.98 | \$5,519.20 |
| 2.1 Lead, Filtered                           |    | per sample | \$15.60  | \$0.00     |
| 3.1 Rush EPA Method 8260B                    |    | per sample | \$173.72 | \$0.00     |
| 4.1 Trimethal, Butyl, and Isopropyl Benzenes |    | per sample | \$31.67  | \$0.00     |
| 5.1 PAH's                                    |    | per sample | \$68.54  | \$0.00     |
| 6.1 Lead                                     |    | per sample | \$18.09  | \$0.00     |
| 7.1 EDB by EPA 8011                          | 38 | per sample | \$51.12  | \$1,942.56 |
| 8.1 EDB by EPA Method 8011 Rush              |    | per sample | \$77.14  | \$0.00     |
| 9.1 8 RCRA Metals                            |    | per sample | \$71.71  | \$0.00     |
| 10.1 TPH (9070)                              |    | per sample | \$46.38  | \$0.00     |
| 11.1 PH                                      |    | per sample | \$5.88   | \$0.00     |
| 12.1 BOD                                     |    | per sample | \$22.62  | \$0.00     |
| 13.1 Ethanol                                 |    | per sample | \$16.74  | \$0.00     |
| <b>K. Analyses-Drinking Water</b>            |    |            |          |            |
| 14.1 BTEXNM+1,2 DCA (524.2)                  |    | per sample | \$140.30 | \$0.00     |
| 15.1 7-OXYGENATES & ETHANOL (8260D)          |    | per sample | \$103.77 | \$0.00     |
| 16.1 EDB (504.1)                             |    | per sample | \$89.92  | \$0.00     |
| 17.1 RCRA METALS (200.8)                     |    | per sample | \$113.10 | \$0.00     |
| <b>K. Analyses-Soil</b>                      |    |            |          |            |
| 18.1 BTEX + Naphth.                          |    | per sample | \$72.39  | \$0.00     |
| 19.1 PAH's                                   |    | per sample | \$72.43  | \$0.00     |
| 20.1 8 RCRA Metals                           |    | per sample | \$63.79  | \$0.00     |
| 21.1 TPH-DRO (3550C/8015C)                   |    | per sample | \$45.24  | \$0.00     |
| 22.1 TPH- GRO (5035B/8015C)                  |    | per sample | \$40.67  | \$0.00     |
| 23.1 Grain size/hydrometer                   |    | per sample | \$117.63 | \$0.00     |
| 24.1 Total Organic Carbon                    |    | per sample | \$34.61  | \$0.00     |
| <b>K. Analyses-Air</b>                       |    |            |          |            |
| 25.1 BTEX + Naphthalene                      |    | per sample | \$244.30 | \$0.00     |
| <b>K. Hydrocarbon Fuel Identification</b>    |    |            |          |            |
| 27. C3-C44 Whole Oil (ASTM D3328)            |    | per sample | \$431.42 | \$0.00     |
| 28. Fuel Oxygenates (1624 Mod)               |    | per sample | \$368.88 | \$0.00     |
| 29. ALKYL Leads, EDB MMT (8080)              |    | per sample | \$368.88 | \$0.00     |
| 30. C8-C40 Full Scan (ASTM 5739)             |    | per sample | \$583.00 | \$0.00     |
| 31. Simulated Distillation (ASTM 2887)       |    | per sample | \$368.88 | \$0.00     |
| 32. Parent & Alk. PAH Com. (8270 SIM)        |    | per sample | \$670.03 | \$0.00     |
| 33. C3-C10 Piano (8260 MOD)                  |    | per sample | \$555.44 | \$0.00     |
| 34. C10+Alkane Fingerprints                  |    | per sample | \$555.44 | \$0.00     |
| 35. Expert Data Interpretation & Report      |    | each       | \$551.20 | \$0.00     |

|   |    |           |             |         |
|---|----|-----------|-------------|---------|
| <b>L. Aquifer Characterization*</b>                     |    |           |             |         |
| 1.1 Pumping Test  |    | per hour  | \$26.01     | \$0.00  |
| 2.1 Slug Test   |    | per test  | \$216.03    | \$0.00  |
| 3.1 Fractured Rock                                      |    | per test  | \$113.10    | \$0.00  |
| <b>M. Free Product *</b>                                |    |           |             |         |
| 1. Free Product Recovery Rate Test                      |    | each      | \$42.98     | \$0.00  |
| <b>N.</b>   |    |           |             |         |
| <b>O. Risk Evaluation</b>                               |    |           |             |         |
| 1.1 Tier I Risk Evaluation                              |    | each      | \$339.31    | \$0.00  |
| 2.1 Tier II Risk Evaluation                             |    | each      | \$113.10    | \$0.00  |
| <b>P. Survey*</b>                                       |    |           |             |         |
| 1. Subsequent Survey                                    |    | each      | \$275.60    | \$0.00  |
| <b>Q. Disposal (gallons or tons)*</b>                   |    |           |             |         |
| 1.1 Wastewater  | 55 | gallon    | \$0.64      | \$35.20 |
| 2.1 Free Product  |    | gallon    | \$0.56      | \$0.00  |
| 3.1 Soil Treatment/Disposal                             |    | ton       | \$67.86     | \$0.00  |
| 4.1 Drilling fluids                                     |    | gallon    | \$0.48      | \$0.00  |
| <b>R. Miscellaneous (attach receipts)</b>               |    |           |             |         |
|   |    | each      | \$0.00      | \$0.00  |
|   |    | each      | \$0.00      | \$0.00  |
|   |    | each      | \$0.00      | \$0.00  |
| <b>T. Tier I Assessment (Use DHEC 3665 form)</b>        |    |           |             |         |
| 1.1 Southeast Region                                    |    | standard  | \$11,687.56 | \$0.00  |
| 2.1 All Other Counties                                  |    | standard  | \$12,818.58 | \$0.00  |
| <b>U. IGWA (Use DHEC 3666 form)</b>                     |    |           |             |         |
| 1.1 Southeast Region                                    |    | standard  | \$4,031.18  | \$0.00  |
| 2.1 All Other Counties                                  |    | standard  | \$4,370.38  | \$0.00  |
| <b>22. Active Correction Action</b>                     |    |           |             |         |
|   |    | PPF       | Bid Cost    | \$0.00  |
| <b>W. Aggressive Fluid &amp; Vapor Recovery (AFVR)</b>  |    |           |             |         |
| 1.1 8-hour Event*                                       |    | per event | \$1,655.00  | \$0.00  |
| 2. 24-hour Event*                                       |    | per event | \$4,081.28  | \$0.00  |
| 3. 48-hour Event*                                       |    | per event | \$6,706.10  | \$0.00  |
| 4. 96-hour Event*                                       |    | per event | \$13,409.52 | \$0.00  |
| 5. Off-gas Treatment 8 hour                             |    | per event | \$130.71    | \$0.00  |
| 6.1 Off-gas Treatment 24 hour                           |    | per event | \$272.50    | \$0.00  |
| 7.1 Off-gas Treatment 48 hour                           |    | per event | \$357.50    | \$0.00  |
| 8. Off-gas Treatment 96 hour                            |    | per event | \$832.26    | \$0.00  |
| 9. Off-gas Treatment 8 hour (w/chlorinated compounds)   |    | per event | \$430.00    | \$0.00  |
| 10. Off-gas Treatment 24 hour (w/chlorinated compounds) |    | per event | \$500.00    | \$0.00  |
| 11. Off-gas Treatment 48 hour (w/chlorinated compounds) |    | per event | \$1,000.00  | \$0.00  |
| 12. Off-gas Treatment 96 hour (w/chlorinated compounds) |    | per event | \$2,000.00  | \$0.00  |
| 13.1 AFVR Effluent Disposal(w/chlorinated compounds)    |    | gallon    | \$0.59      | \$0.00  |
| 14.1 AFVR Site Reconnaissance                           |    | each      | \$280.00    | \$0.00  |
| 15. Additional Hook-ups                                 |    | each      | \$27.48     | \$0.00  |
| 16.1 AFVR Effluent Disposal                             |    | gallon    | \$0.49      | \$0.00  |
| 17.1 AFVR Mobilization/Demobilization                   |    | each      | \$720.00    | \$0.00  |
| 18. Mobilization for absorbents/skimmers                |    | each      | \$531.25    | \$0.00  |
| 19. Well sock 2" ID well                                |    | each      | \$34.20     | \$0.00  |

|   |     |          |             |             |
|---|-----|----------|-------------|-------------|
| 20. Well sock 4" ID well  |     | each     | \$45.40     | \$0.00      |
| 21. pad (per pad)   |     | each     | \$46.25     | \$0.00      |
| 22. 3" diameter x 10' length boom   |     | each     | \$100.00    | \$0.00      |
| 23. 5" diameter x 10' length boom   |     | each     | \$123.00    | \$0.00      |
| 24. New FPP recovery skimmer (2" wells)   |     | each     | \$732.50    | \$0.00      |
| 25. New FPP recovery skimmer (4" wells)   |     | each     | \$1,155.00  | \$0.00      |
| 26. Refurbished FPP recovery skimmer (2" or 4" wells)                                 |     | each     | \$704.00    | \$0.00      |
| 27. Disposal of Absorbents  |     | pound    | \$3.80      | \$0.00      |
| 28. Disposal of product from skimmers   |     | gallon   | \$0.46      | \$0.00      |
| <b>X. Granulated Activated Carbon (GAC) filter system installation &amp; service:</b> |     |          |             |             |
| 1.1 New GAC System Installation*  |     | each     | \$2,148.94  | \$0.00      |
| 2.1 Refurbished GAC Sys. Install*   |     | each     | \$1,017.92  | \$0.00      |
| 3.1 Filter replacement/removal*   |     | each     | \$395.86    | \$0.00      |
| 4.1 GAC System removal, cleaning, & refurbishment*                                    |     | each     | \$311.04    | \$0.00      |
| 5.1 GAC System housing*   |     | each     | \$282.76    | \$0.00      |
| 6.1 In-line particulate filter  |     | each     | \$169.65    | \$0.00      |
| 7.1 Additional piping & fittings  |     | foot     | \$1.70      | \$0.00      |
| <b>Y. Well Repair</b>   |     |          |             |             |
| 1.1 Additional Copies of the Report Delivered   |     | each     | \$56.55     | \$0.00      |
| 2.1 Repair 2x2 MW pad*  |     | each     | \$56.55     | \$0.00      |
| 3.1 Repair 4x4 MW pad*  |     | each     | \$99.53     | \$0.00      |
| 4.1 Replace well vault*   |     | each     | \$133.46    | \$0.00      |
| 5.1 Replace well cover bolts  |     | each     | \$2.94      | \$0.00      |
| 6.1 Replace locking well cap & lock   |     | each     | \$16.96     | \$0.00      |
| 7.1 Replace/Repair stick-up*  |     | each     | \$151.56    | \$0.00      |
| 8.1 Convert Flush-mount to Stick-up*  |     | each     | \$169.65    | \$0.00      |
| 9.1 Convert Stick-up to Flush-mount*  |     | each     | \$147.03    | \$0.00      |
| 10.1 Replace missing/illegible well ID plate  |     | each     | \$13.57     | \$0.00      |
| 11. Down-hole Camera  |     | per foot | \$27.08     | \$0.00      |
| <b>Z. High Resolution Site Characterization</b>                                       |     |          |             |             |
| 1. HRSC Screening Equipment Mobilization  |     | each     | \$1,360.00  | \$0.00      |
| 2. HRSC Drilling Category 1   |     | per foot | \$29.00     | \$0.00      |
| 3. HRSC Drilling Category 2   |     | per foot | \$33.50     | \$0.00      |
| 4. HRSC Drilling Category 3   |     | per foot | \$27.00     | \$0.00      |
| 5. HRSC 3-D Model   |     | each     | \$4,040.00  | \$0.00      |
| <b>S. Report Prep &amp; Project Management</b>  | 12% | percent  | \$10,398.54 | \$1,247.82  |
| <b>TOTAL</b>  |     |          |             | \$11,646.36 |

DHEC D-4293 (06/2022) \*The appropriate mobilization cost can be added to complete these tasks, as necessary



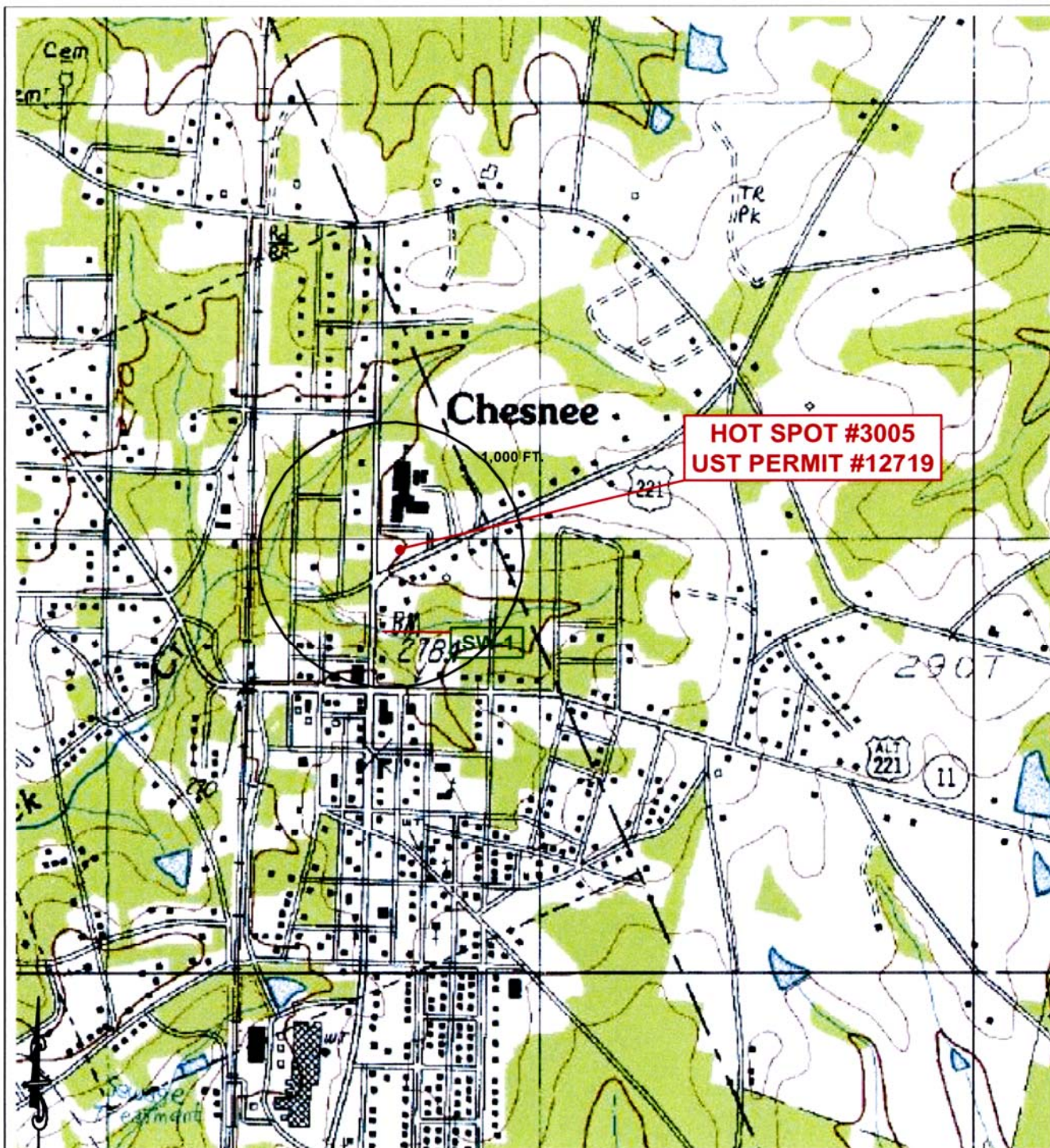


Image courtesy of the U.S. Geological Survey



## FIGURE 1 TOPOGRAPHIC MAP

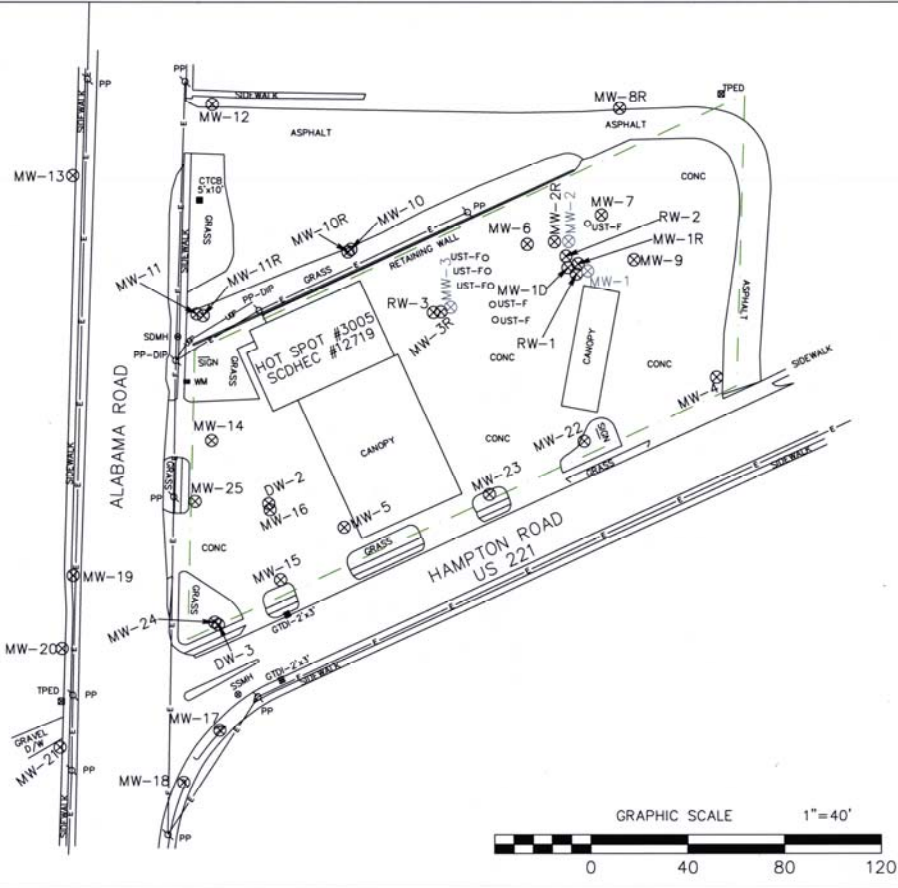
HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

... providing our clients with the best services available,  
actually understanding our clients objectives,  
and making their objectives our own!


PO Box 25  
Summerville, South Carolina 29484  
(800) 325-0605 (843)-873-8200 fax (843)-873-8765

|           |                              |                                     |     |
|-----------|------------------------------|-------------------------------------|-----|
| SIZE<br>B | TERRY Project No.<br>2230.8P | DWG NO.<br>Figure 1 Topographic Map | REV |
|-----------|------------------------------|-------------------------------------|-----|

|                 |                 |
|-----------------|-----------------|
| SCALE: As Shown | DATE: July 2022 |
|-----------------|-----------------|



- LEGEND & ABBREVIATIONS:**
- ⊗ MW = MONITORING WELL
  - ⊗ ABANDONED MONITORING WELL
  - ⊗ TPED = TELEPHONE PEDESTAL
  - ⊗ SDMH = STORM DRAIN MAN HOLE
  - ⊗ SSMH = SANITARY SEWER MAN HOLE
  - ⊗ WM = WATER METER
  - ⊗ PP = POWER POLE
  - ⊗ LP = LIGHT POLE
  - ⊗ GM = GAS METER
  - ⊗ GV = GAS VALVE
  - ⊗ USTF = UNDERGROUND STORAGE TANK FILL
  - ⊗ GTCB = GRATE TOP CATCH BASIN
  - ⊗ SIGN = SIGN
  - ⊗ KD = KEROSENE DISPENSER
  - E — = OVERHEAD POWER LINE
  - GP — = UNDERGROUND POWER LINE
  - — — = APPROXIMATE PROPERTY LINE
- ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (i.e. 12719-MW 1)



**FIGURE 2**  
**SITE BASE MAP**  
 HOT SPOT #3005  
 107 HAMPTON STREET  
 CHESNEE, SOUTH CAROLINA

|                 |                  |
|-----------------|------------------|
| TERRY PROJECT # | SCDHEC SITE ID # |
| 2230.8P         | 12719            |
| SCALE           | DATE             |
| 1" = 40'        | July 2022        |



Healthy People. Healthy Communities.

R L JORDAN OIL OF NC INC  
PO BOX 2527  
SPARTANBURG SC 29304-2527

AUG 12 2022



Re: **Site Specific Work Plan Approval and Groundwater Sampling Notice to Proceed**  
Hot Spot #3005, 107 Hampton St., Chesnee, SC  
UST Permit #12719; CA #65914  
Release #2 reported August 4, 2003  
Site Specific Work Plan received July 29, 2022  
Spartanburg County

To Whom It May Concern:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site Specific Work Plan (SSWP) submitted by your contractor. The groundwater sampling event should begin immediately upon receipt of this letter. All work should be conducted in compliance with the current revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan, and all applicable regulations. The QAPP is available at [scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance](http://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance).

**The contractor must provide notification to the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes to the schedule, the UST Project Manager must be contacted within 24 hours of those changes.**

In accordance with Section IV.A.4.c of the SUPERB Site Rehabilitation & Fund Access Regulation (R.61-98), the contractor shall be required to indemnify the property owner, underground storage tank owner/operator and the State of South Carolina from and against all claims, damages, losses and expenses arising out of or resulting from activity conducted by the contractor, its agents, employees or subcontractors.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. **The Monitoring Report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the UST Division within sixty (60) days of the date of this correspondence.** If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Pursuant to S.C. Code Ann. Section 44-2-40(D), "The SUPERB Account and the SUPERB Financial Responsibility Fund shall provide combined coverage for site rehabilitation and third party claims, respectively, not to exceed one million dollars per occurrence". According to UST Division records, approximately \$153,295.08 has been expended from the SUPERB Account to date. This scope of work, as recommended by your contractor, is anticipated to cost approximately \$11,646.36.

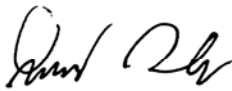
Please note that sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that the SUPERB Account cannot compensate any costs that are not pre-approved. If for any reason additional tasks will be completed, these additional tasks, and the associated cost, must be pre-approved by the UST Division for the cost to be paid. The UST Division reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the UST Division reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by a DHEC-certified site rehabilitation contractor as required by the SUPERB Site Rehabilitation and Fund Access Regulation, R.61-98.

The UST Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the Chemical of Concern (CoC) concentrations based on laboratory analysis is below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on-site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference the UST Permit number above. Should you have any questions, please contact me by phone at (803) 898-0655, by fax at (803) 898-0673, or by email at [hofferqm@dhec.sc.gov](mailto:hofferqm@dhec.sc.gov).

Sincerely,



Quincy Hoffer, Hydrogeologist  
Corrective Action & Quality Assurance Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Terry Environmental Services Inc., PO Box 25, Summerville, SC 29484 (w/ enc)  
Technical file (w/ enc)

**Approved Cost Agreement****65914**

Facility: 12719 HOT SPOT 3005

HOFFERQM

PO Number: 93641

| <u>Task / Description</u>   | <u>Categories</u> | <u>Item Description</u>            | <u>Qty / Pct</u>    | <u>Unit Price</u> | <u>Amount</u>    |
|-----------------------------|-------------------|------------------------------------|---------------------|-------------------|------------------|
| A PLAN PREPARATION          |                   | 1.1 SITE SPECIFIC WORK PLAN        | 1.0000              | \$169.650         | 169.65           |
| D MOB/DEMOB                 |                   | 2.1 PERSONNEL                      | 3.0000              | \$478.420         | 1,435.26         |
| J SAMPLE COLLECTION         |                   | 1.1 GROUND WATER PURGE             | 3.0000              | \$67.860          | 203.58           |
|                             |                   | 4.2A NO-PURGE GW SAMPLE/SURFACE    | 31.0000             | \$31.670          | 981.77           |
|                             |                   | 8.1 FIELD DUPL. (MWS & WSWs) & FB  | 4.0000              | \$27.830          | 111.32           |
| K ANALYSES                  |                   |                                    |                     |                   |                  |
|                             | GW GROUNDWATER    | 1.1 BTEXNM+OXYGS+1,2 DCA+ETH-8260D | 40.0000             | \$137.980         | 5,519.20         |
|                             |                   | 7.1 EDB BY EPA 8011                | 38.0000             | \$51.120          | 1,942.56         |
| Q DISPOSAL                  |                   | 1.1 WASTEWATER                     | 55.0000             | \$0.640           | 35.20            |
| S REPORT PROJECT MANAGEMENT |                   | S REPORT PREP & PROJ. MANAGEMENT   | 0.1200              | \$10,398.540      | 1,247.82         |
|                             |                   |                                    | <b>Total Amount</b> |                   | <b>11,646.36</b> |

# CD's Information

Date Received: 10/13/22

Permit Number: 12719

Project Manager: Guincy Hoffer

Contractor: Terry Environmental

Description: GWM Rpt

Docket Number: 109T      Initials: \_\_\_\_\_

Scanned by: \_\_\_\_\_

Verified by: \_\_\_\_\_

**GROUNDWATER MONITORING REPORT  
HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719  
CA #65914**

Prepared For:

**SCDHEC UNDERGROUND STORAGE TANK PROGRAM  
2600 BULL ST.  
COLUMBIA, SC 29201**

Submitted By:



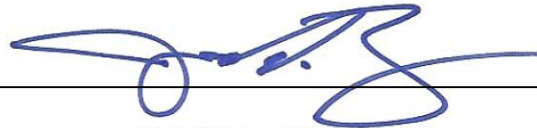
P.O. BOX 25  
SUMMERVILLE, SOUTH CAROLINA 29484  
(843) 873-8200  
Fax (843) 225-3472  
[www.terryenvironmental.com](http://www.terryenvironmental.com)

UST CONTRACTOR #UCC-0223  
TERRY PROJECT #2230.8P



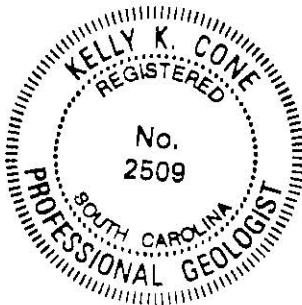
---

**KELLY K. CONE, PG  
Vice President**



---

**JASON A. TERRY, PG  
President**



**OCTOBER 2022**

**TABLE OF CONTENTS**

| SECTION | DESCRIPTION   | PAGE |
|---------|---|------|
| A.      | INTRODUCTION  | 1    |
| 1.      | UST Facility and Owner/Operator Information               | 1    |
| 2.      | Property Owner Information                                | 1    |
| 3.      | Contractor Information                                    | 1    |
| 4.      | Well Driller Information                                  | 1    |
| 5.      | Laboratory Information                                    | 1    |
| 6.      | Site History  | 1    |
| 7.      | Regional Geology and Hydrogeology                         | 2    |
| B.      | RECEPTOR SURVEY & SITE DATA                               | 3    |
| 1.      | Receptor Survey Results                                   | 3    |
| 2.      | Current Site and Adjacent Land Use                        | 3    |
| 3.      | Site-Specific Geology and Hydrogeology                    | 3    |
| C.      | SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY | 4    |
| D.      | MONITORING WELL INFORMATION                               | 4    |
| E.      | GROUNDWATER DATA  | 5    |
| 1.      | Groundwater Sampling Methodology                          | 5    |
|         | E-1 Groundwater Measurements (No Purge Sampling)          | 6    |
| 2.      | Purging Methodology                                       | 7    |
|         | E-2 Groundwater Measurements (Purge Sampling)             | 7    |
| 3.      | Free Product Measurements                                 | 8    |
| F.      | AFVR INFORMATION  | 9    |
| G.      | GRANULATED ACTIVATED CARBON INSTALLATION                  | 9    |
| H.      | RESULTS & DISCUSSION                                      | 10   |
| 1.      | Assessment Results  | 10   |
| 2.      | Aquifer Evaluation Results                                | 10   |
| 3.      | Fate & Transport Results                                  | 10   |
| 4.      | Tier 1 Risk Evaluation                                    | 10   |
| 5.      | Tier 2 Risk Evaluation                                    | 10   |
| I.      | TABLES  | 11   |
| 1.      | Soil Analytical Data                                      | 11   |
| 2.      | Potentiometric Data                                       | 11   |
|         | Table 2 Groundwater Potentiometric Data                   | 11   |
| 3.      | Laboratory Data   | 11   |
|         | Table 3 Groundwater Laboratory Data                       | 11   |
| 4.      | Aquifer Characteristics                                   | 11   |
| 5.      | Site Conceptual Model                                     | 11   |
| J.      | FIGURES   | 12   |
| 1.      | Topographic Map   | 12   |
|         | Figure 1 Topographic Map                                  | 12   |
| 2.      | Site Base Map   | 12   |
|         | Figure 2 Site Base Map                                    | 12   |
| 3.      | CoC Site Maps   | 12   |
|         | Figure 3 Soil CoC Map                                     | 12   |
|         | Figure 4A Groundwater CoC Map                             | 12   |
|         | Figure 4B Groundwater CoC Map (Oxygenates)                | 12   |



**TABLE OF CONTENTS (cont.)**

| SECTION | DESCRIPTION  | PAGE |
|---------|--|------|
| 4.      | Site Potentiometric Maps _____                           | 12   |
|         | Figure 5 Site Potentiometric Map _____                   | 12   |
| 5.      | Geologic Cross-Sections _____                            | 12   |
| 6.      | Predicted Migration and Attenuation of CoCs _____        | 12   |
| K.      | Appendices _____   | 13   |
| 1.      | Appendix A: Site Survey _____                            | 13   |
| 2.      | Appendix B: Sampling Logs and Laboratory Data _____      | 13   |
| 3.      | Appendix C: Tax Map _____                                | 13   |
| 4.      | Appendix D: Soil Boring/Field Screening Logs _____       | 13   |
| 5.      | Appendix E: Well Completion Logs/SCDHEC 1903 Forms _____ | 13   |
| 6.      | Appendix F: Aquifer Evaluation Forms _____               | 13   |
| 7.      | Appendix G: Disposal Manifest _____                      | 13   |
| 8.      | Appendix H: Local Zoning Regulations _____               | 13   |
| 9.      | Appendix I: Fate and Transport Modeling Data _____       | 13   |
| 10.     | Appendix J: Access Agreements _____                      | 13   |
| 11.     | Appendix K: Data Verification Checklist _____            | 13   |

**A. INTRODUCTION**
**1. UST Facility and Owner/Operator Information**

Facility Name (Permit #): Hot Spot #3005 (12719)  
 Facility Address: 107 Hampton Street, Chesnee, South Carolina 29323  
 Facility Telephone: 864-461-4147  
  
 Owner/ Operator Name: RL Jordan Oil Co. of NC (Contact: Ms. Cyndi Suttles)  
 Owner/ Operator Address: PO Box 2527, Spartanburg, SC 29304  
 Owner/ Operator Telephone: 864-585-2784

**2. Property Owner Information**

Name: EJ Enterprises Inc.  
 Address: PO Box 2527, Spartanburg, SC 29304  
 Telephone: 864-585-2784

**3. Contractor Information**

Name: Terry Environmental Services, Inc.  
 Address: P.O. Box 25, Summerville, South Carolina 29484  
 Telephone: 843-873-8200  
 Certification: UCC-0223

**4. Well Driller Information**

Not Applicable

**5. Laboratory Information**

Name: Pace Analytical Services, LLC  
 Address: 106 Vantage Point Drive, West Columbia, SC 29172  
 Telephone: 803-791-9700  
 Certification: 32010001

**6. Site History**

Date Release Reported to SCDHEC: August 4, 2003  
 Estimated Quantity of Product Released: Unknown  
 Cause of Release: Unknown  
 Current use of Facility: Gas Station and Convenience Store (Hot Spot)

| UST #          | Product           | Date Installed | Currently In Use<br>(Yes or No) | If not in use, Date<br>Removed |
|----------------|-------------------|----------------|---------------------------------|--------------------------------|
| 1 (12,000 gal) | Unleaded Gasoline | 8/6/1990       | Yes                             | -                              |
| 2 (8,000 gal)  | Plus Gasoline     | 8/6/1990       | Yes                             | -                              |
| 3 (8,000 gal)  | Premium Gasoline  | 8/6/1990       | Yes                             | -                              |
| 4 (8,000 gal)  | Diesel            | 8/6/1990       | Yes                             | -                              |
| 5 (8,000 gal)  | Kerosene          | 8/6/1990       | Yes                             | -                              |
| 6 (12,000 gal) | Diesel            | 10/3/1991      | Yes                             | -                              |

Other Releases at this site?      Yes XXXX      No \_\_\_\_\_  
If yes, Date Release Reported to SCDHEC      November 3, 1993  
**Status of Release:**      Feb. 2002 Brook & Medlock selected as CA contractor.  
No Further Action Date:      N/A

**7. Regional Geology and Hydrogeology**

The Hot Spot #3005 site is located in Chesnee which lies in the Western Piedmont Province of South Carolina. The western piedmont is comprised of the Inner Piedmont block, the Smith River allochthon, and the Sauratwon Mountain window. The Inner Piedmont block encompasses the Inner Piedmont belt and the Chauga belt, and consists of a composite stack of thrust sheets containing a variety of gneisses, schists, amphibolites, sparse ultramafic bodies, and intrusive granitoids. (The Geology of the Carolinas, Horton & Zullo, 1991)

The Hot Spot #3005 site is located in the Inner Piedmont Belt which is characterized by granitic, biotitic, and hornblendic rocks. Generally, wells drilled in the Inner Piedmont Belt of Spartanburg County yield 1 to 250 gallons per minute (gpm). The highest average yields (35 gpm) were obtained from wells drilled in biotite gneiss and migmatite with the lowest average yields from wells drilled in quartz monzonite. The average yield of all wells inventoried was 20 gpm. The ground waters in Spartanburg County are of good to excellent quality for most domestic, municipal, and industrial uses. (USGS/SCWRC Report 3: Water Resources of Spartanburg County, South Carolina, 1970)

## **B. RECEPTOR SURVEY & SITE DATA**

### **1. Receptor Survey Results**

A receptor survey was not conducted during this scope of work.

### **2. Current Site and Adjacent Land Use**

Description of current site use (commercial, residential, rural, etc.):

Commercial; the site is operating as Hot Spot #3005, a gas station and convenience store.

Description of adjacent land use (commercial, residential, rural, etc):

Commercial and residential.

UST sites within a 1,000-foot radius:

10122 Free Time Convenience Store

The site is located at 107 Hampton Street, Chesnee, South Carolina. The site is bordered to the north by a school, to the east by a vacant field, and to the south and west by commercial and residential properties. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map originating from a comprehensive survey completed by Jay S. Joshi (SC Registered Land Surveyor #14811) of Construction Support Services on June 6, 2018, is provided in Section J as Figure 2.

### **3. Site-Specific Geology and Hydrogeology**

The site-specific stratigraphy generally consists of silt underlain by sandy silt in the deep wells. The Site Potentiometric Map (Figure 5, Section J) from the comprehensive groundwater sampling event indicates that shallow groundwater flow is generally to the west-southwest.

**C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY**

Not Applicable. No soil or groundwater borings were installed during this scope of work.

**D. MONITORING WELL INFORMATION**

Not Applicable. No monitoring wells were installed during this scope of work.

## **E. GROUNDWATER DATA**

### **1. Groundwater Sampling Methodology**

TERRY conducted a comprehensive groundwater sampling event between September 19 and September 20, 2022. Just prior to the sampling event, all monitoring wells were gauged with an oil/water interface probe to determine depth to groundwater measurements and the presence or absence of free-phase petroleum. Water level was recorded to the nearest 0.01 foot and total well depth was recorded to the nearest 0.1 foot. Surface water sample (SW-1) was also collected on September 20, 2022, from the tributary located approximately 575 feet south of the subject site.

Sampling was conducted from the least contaminated wells to the most contaminated wells based on the previous assessment data. A clean purge pump with new disposable tubing was utilized for purging the wells with larger casing volumes and/or adequate recharge rates. Groundwater samples were collected from each monitoring well with a new disposable bailer. Bailers with new colorless nylon rope were slowly lowered into the top of the water column, allowed to fill, and slowly removed to minimize turbidity and disturbance of the volatile organic compounds (VOCs). The surface water sample was collected with a new disposable bailer.

Trip blanks, field blanks, and field duplicates were prepared or collected in accordance with the SCDHEC UST QAPP, Revision 4.0. One trip blank was shipped with each cooler and analyzed for VOCs. One field blank was collected for each sampling day and analyzed for VOCs and 1,2-Dibromoethane (EDB). One field duplicate was collected for each batch of twenty samples and analyzed for VOCs and EDB.

Samples were immediately packed in a cooler of ice and proper temperatures were maintained in accordance with the SCDHEC UST QAPP, Revision 4.0 and the site-specific Addendum. At the completion of the sampling event, the samples were submitted to a SCDHEC certified laboratory for analyses. The samples were analyzed for Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, Methyl tertiary butyl ether, 1,2-Dichloroethane, Oxygenates, Ethanol, and EDB.

Field conditions were documented throughout the sampling event. All field measurement equipment was properly cleaned and decontaminated before use, between each well, and prior to site departure in accordance with "Appendix H: Standard Field Cleaning Procedures" of the SCDHEC UST QAPP, Revision 4.0. By-products were initially stored onsite in 55-gallon drums and transported to US Water Recovery for disposal. The field measurement equipment was properly calibrated prior to the sampling event each day, after four (4) hours of use, and at the completion of the event each day. The calibration and verification data for the sampling event are provided in Appendix B.

Depth to groundwater measurements were taken with reference to the top of well casing (TOC) and converted to elevations by subtracting the depth to groundwater measurements from the TOC elevations. Potentiometric data are provided in Section I as Table 2 and on the Groundwater Sampling Logs provided in Appendix B. The groundwater measurements collected during the sampling event for the no-purge wells are provided as follows:

| <b>SECTION E -1<br/>                     GROUNDWATER MEASUREMENTS (NO PURGE SAMPLING)<br/>                     HOT SPOT #3005<br/>                     CHESNEE, SOUTH CAROLINA<br/>                     SCDHEC UST PERMIT #12719</b> |           |                        |                      |                   |           |                  |
|--|-----------|------------------------|----------------------|-------------------|-----------|------------------|
| Well   | Date      | pH                     | Specific Conductance | Water Temperature | Turbidity | Dissolved Oxygen |
| Units  | --        | su                     | mS/cm                | °C                | NTU       | mg/L             |
| 12719-MW1R   | 9/20/2022 | Free Product (0.03 ft) |                      |                   |           |                  |
| 12719-MW2R   | 9/20/2022 | 4.54                   | 0.344                | 22.7              | 0.0       | 6.39             |
| 12719-MW3R   | 9/20/2022 | 5.30                   | 0.326                | 26.6              | 0.9       | 5.04             |
| 12719-MW5  | 9/20/2022 | 5.01                   | 0.094                | 26.0              | 65.0      | 2.18             |
| 12719-MW6  | 9/20/2022 | 4.74                   | 0.273                | 23.5              | 2.0       | 5.26             |
| 12719-MW8R   | 9/19/2022 | 4.69                   | 0.024                | 23.1              | 49.9      | 8.01             |
| 12719-MW10   | 9/19/2022 | 4.68                   | 0.052                | 22.1              | 0.0       | 8.04             |
| 12719-MW11   | 9/19/2022 | 4.78                   | 0.109                | 24.1              | 0.0       | 8.97             |
| 12719-MW11R  | 9/19/2022 | 4.50                   | 0.079                | 21.8              | 0.0       | 7.18             |
| 12719-MW12   | 9/19/2022 | 4.85                   | 0.101                | 23.0              | 0.0       | 9.16             |
| 12719-MW13   | 9/19/2022 | 4.92                   | 0.103                | 22.6              | 0.0       | 6.60             |
| 12719-MW14   | 9/20/2022 | 4.30                   | 0.077                | 21.5              | 6.7       | 3.28             |
| 12719-MW15   | 9/19/2022 | 5.32                   | 0.060                | 24.9              | 17.1      | 3.86             |
| 12719-MW16   | 9/20/2022 | 5.15                   | 0.144                | 25.6              | 107       | 4.76             |
| 12719-MW17   | 9/19/2022 | 6.08                   | 0.063                | 22.7              | 0.0       | 9.66             |
| 12719-MW18   | 9/19/2022 | 5.59                   | 0.071                | 21.5              | 5.2       | 9.84             |
| 12719-MW19   | 9/20/2022 | 4.68                   | 0.116                | 21.9              | 94.8      | 4.09             |
| 12719-MW20   | 9/20/2022 | 4.67                   | 0.092                | 20.9              | 216       | 4.94             |
| 12719-MW21   | 9/20/2022 | 4.26                   | 0.118                | 20.5              | 187       | 6.03             |
| 12719-MW22   | 9/19/2022 | 5.65                   | 0.047                | 24.4              | 0.0       | 2.92             |
| 12719-MW23   | 9/19/2022 | 5.33                   | 0.052                | 22.9              | 0.0       | 6.18             |
| 12719-MW24   | 9/19/2022 | 9.55                   | 0.095                | 22.1              | 0.8       | 11.02            |
| 12719-MW25   | 9/20/2022 | 4.40                   | 0.092                | 22.2              | 0.7       | 2.59             |
| 12719-RW1  | 9/20/2022 | Free Product (0.14 ft) |                      |                   |           |                  |
| 12719-RW2  | 9/20/2022 | Free Product (0.50 ft) |                      |                   |           |                  |
| 12719-RW3  | 9/20/2022 | 4.96                   | 0.100                | 24.1              | 0.0       | 4.93             |

**NOTES/KEY:**

su = standard unit  
 mS/cm = milliSiemens per centimeter

NTU = nephelometric turbidity units  
 mg/L = milligrams per liter

## 2. Purging Methodology

Purging was conducted from the least contaminated wells to the most contaminated wells based on the previous assessment data. Prior to purging, new plastic sheeting was placed on the ground surface around the well to prevent contamination of pumps, hoses, meters, etc. For monitoring wells with smaller casing volumes and/or slow recharge rates, a new disposable bailer was utilized for purging. When utilized, the purge pump was lowered approximately 3-5 feet into the standing water column and adjusted only if the pumping rate exceeded the recovery rate as drawdown occurred. In accordance with the SCDHEC UST QAPP, Revision 4.0, an adequate purge was achieved when pH, specific conductance, and temperature of the groundwater stabilized, and turbidity either stabilized or was below 10 nephelometric turbidity units (NTUs). The purge water generated was initially stored onsite in 55-gallon drums. The water generated was transported to US Water Recovery for disposal and the disposal manifest is provided in Appendix G.

If a well was pumped or purged dry, even with reduced purge rates, the well was considered adequately purged per the SCDHEC UST QAPP, Revision 4.0. The sample was collected immediately following sufficient recovery to fill all sampling containers. The groundwater measurements collected during the sampling event for the purged wells are provided as follows:

| SECTION E -2<br>GROUNDWATER MEASUREMENTS (PURGE SAMPLING)<br>HOT SPOT #3005<br>CHESNEE, SOUTH CAROLINA<br>SCDHEC UST PERMIT #12719 |                  |       |       |             |          |  |
|--|------------------|-------|-------|-------------|----------|--|
| <b>12719-MW4</b>   | <b>9/19/2022</b> |       |       |             |          |  |
| Volume (gal)   | Initial          | 3.5   | 7     | 10.5/Sample |          |  |
| Time (military)  | 1453             | 1500  | 1507  | 1515        |          |  |
| pH (su)  | 6.42             | 6.64  | 6.67  | 6.70        |          |  |
| Spec Conductivity (mS/cm)  | 0.105            | 0.183 | 0.190 | 0.191       |          |  |
| Water Temperature (°C)   | 23.8             | 22.3  | 21.4  | 21.1        |          |  |
| Turbidity (NTU)  | 0.0              | 0.0   | 0.0   | 0.0         |          |  |
| Dissolved Oxygen (mg/L)  | 6.02             | 2.59  | 2.49  | 2.39        |          |  |
| <b>12719-MW7</b>   | <b>9/20/2022</b> |       |       |             |          |  |
| Volume (gal)   | Initial          | 2     | 4     | 6           | 8/Sample |  |
| Time (military)  | 1104             | 1110  | 1120  | 1127        | 1133     |  |
| pH (su)  | 4.96             | 4.54  | 4.46  | 4.42        | 4.43     |  |
| Spec Conductivity (mS/cm)  | 0.079            | 0.074 | 0.066 | 0.063       | 0.065    |  |
| Water Temperature (°C)   | 23.4             | 23.5  | 23.0  | 23.0        | 22.3     |  |
| Turbidity (NTU)  | 0.0              | 8.7   | 18.5  | 17.4        | 17.2     |  |
| Dissolved Oxygen (mg/L)  | 6.77             | 7.17  | 7.05  | 6.88        | 6.87     |  |



| 12719-MW9                 |         | 9/20/2022 |       |                 |          |  |
|---------------------------|---------|-----------|-------|-----------------|----------|--|
| Volume (gal)              | Intital | 1.75      | 3.5   | 5.25/Sample     |          |  |
| Time (military)           | 1030    | 1036      | 1040  | 1051            |          |  |
| pH (su)                   | 4.95    | 4.96      | 4.98  | 5.05            |          |  |
| Spec Conductivity (mS/cm) | 0.038   | 0.042     | 0.042 | 0.043           |          |  |
| Water Temperature (°C)    | 22.8    | 22.4      | 22.0  | 21.8            |          |  |
| Turbidity (NTU)           | 138     | 261       | 257   | 249             |          |  |
| Dissolved Oxygen (mg/L)   | 7.50    | 5.32      | 5.24  | 5.15            |          |  |
| 12719-MW10R               |         | 9/19/2022 |       |                 |          |  |
| Volume (gal)              | Intital | 1.75      | 3.5   | 5.25            | 7/Sample |  |
| Time (military)           | 1314    | 1317      | 1321  | 1325            | 1330     |  |
| pH (su)                   | 5.02    | 4.95      | 4.80  | 4.75            | 4.80     |  |
| Spec Conductivity (mS/cm) | 0.056   | 0.052     | 0.050 | 0.050           | 0.048    |  |
| Water Temperature (°C)    | 22.0    | 21.9      | 21.5  | 21.3            | 21.1     |  |
| Turbidity (NTU)           | 0.0     | 211       | 72.0  | 72.1            | 70.0     |  |
| Dissolved Oxygen (mg/L)   | 3.30    | 4.89      | 3.43  | 3.44            | 3.50     |  |
| 12719-MW1D                |         | 9/20/2022 |       |                 |          |  |
| Volume (gal)              | Intital | 6         | 12    | 18/Sample       |          |  |
| Time (military)           | 1139    | 1148      | 1155  | 1206            |          |  |
| pH (su)                   | 5.33    | 5.31      | 5.33  | 5.26            |          |  |
| Spec Conductivity (mS/cm) | 0.072   | 0.063     | 0.060 | 0.060           |          |  |
| Water Temperature (°C)    | 23.7    | 22.0      | 21.5  | 21.3            |          |  |
| Turbidity (NTU)           | 0.0     | 0.0       | 0.0   | 0.0             |          |  |
| Dissolved Oxygen (mg/L)   | 8.96    | 5.83      | 5.78  | 5.75            |          |  |
| 12719-DW2                 |         | 9/20/2022 |       |                 |          |  |
| Volume (gal)              | Intital | 5         | 10    | 15/Sample       |          |  |
| Time (military)           | 0931    | 0938      | 0943  | 0950            |          |  |
| pH (su)                   | 4.91    | 5.31      | 5.24  | 5.22            |          |  |
| Spec Conductivity (mS/cm) | 0.069   | 0.065     | 0.066 | 0.065           |          |  |
| Water Temperature (°C)    | 22.6    | 21.7      | 21.6  | 20.9            |          |  |
| Turbidity (NTU)           | 0.0     | 6.0       | 5.7   | 6.3             |          |  |
| Dissolved Oxygen (mg/L)   | 3.89    | 6.61      | 6.57  | 6.43            |          |  |
| 12719-DW3                 |         | 9/19/2022 |       |                 |          |  |
| Volume (gal)              | Intital | 6.5       | 8     | 8.25/Dry/Sample |          |  |
| Time (military)           | 1642    | 1700      | 1707  | 1715            |          |  |
| pH (su)                   | 8.72    | 8.96      | 9.11  | 7.37            |          |  |
| Spec Conductivity (mS/cm) | 0.492   | 0.478     | 0.474 | 0.299           |          |  |
| Water Temperature (°C)    | 24.6    | 22.6      | 22.1  | 22.4            |          |  |
| Turbidity (NTU)           | 0.0     | 106       | 92.5  | 113             |          |  |
| Dissolved Oxygen (mg/L)   | 9.69    | 8.84      | 8.11  | 6.81            |          |  |

**NOTES/KEY:**

gal = gallons  
 su = standard unit  
 mS/cm = milliSiemens per centimeter  
 NTU = nephelometric turbidity units  
 mg/L = milligrams per liter  
 Ins = insufficient volume

### 3. Free Product Measurements

Free-phase petroleum was measured in MW-1R (0.03 feet), RW-1 (0.14 feet), RW-2 (0.50 feet) on September 20, 2022. Therefore, monitoring wells MW-1R, RW-1, and RW-2 were not sampled.

**F. AFVR INFORMATION**

Not Applicable. No Aggressive Fluid Vapor Recovery (AFVR) Events were performed during this scope of work.

**G. GRANULATED ACTIVATED CARBON INSTALLATION**

Not Applicable. No granulated activated carbon units were installed during this scope of work.

## **H. RESULTS & DISCUSSION**

### **1. Assessment Results**

During this scope of work, TERRY conducted a comprehensive groundwater sampling event between September 19 and September 20, 2022, in accordance with the SCDHEC UST QAPP, Revision 4.0 and the associated site-specific work plan submitted in July 2022.

The groundwater analytical data are summarized in Section I as Table 3, and are included in Appendix B. The analytical data were used to generate contaminant concentration maps for CoC's detected by the laboratory and are provided in Section J as Figures 4A and 4B. Based on the analytical data from the comprehensive sampling event, shallow groundwater contamination is observed onsite in the vicinity of the diesel UST basin (MW-1R, MW-2R, MW-6, RW-1, and RW-2), the gasoline UST basin (MW-3R and RW-3), and down gradient to the west-southwest (MW-16 and MW-25). The plume remains horizontally defined. The plume remains vertically defined in the source area and downgradient to the west-southwest. The sample collected from the surface water location (SW-1) did not show evidence of petroleum contamination above RBSLs.

The AFVR events conducted in October 2021 were successful at reducing free-phase product thickness and recovering contaminant mass. Due to the rebound of free-phase product, TERRY recommends conducting a 96-hour AFVR Event utilizing the recovery wells.

### **2. Aquifer Evaluation Results**

Not Applicable

### **3. Fate & Transport Results**

Not Applicable

### **4. Tier 1 Risk Evaluation**

Not Applicable

### **5. Tier 2 Risk Evaluation**

Not Applicable

**I. TABLES**

**1. Soil Analytical Data**

Table 1 Soil Analytical Data - Not Applicable

**2. Potentiometric Data**

Table 2 Groundwater Potentiometric Data - Attached

**3. Laboratory Data**

Table 3 Groundwater Laboratory Data - Attached

**4. Aquifer Characteristics**

Table 4 Aquifer Characteristics - Not Applicable

**5. Site Conceptual Model**

Table 5 Site Conceptual Model - Not Applicable

**TABLE 2**  
**GROUNDWATER POTENTIOMETRIC DATA**  
**HOT SPOT # 3005**  
**CHESNEE, SOUTH CAROLINA**  
**SCDHEC UST PERMIT #12719**  
**TERRY PROJECT #2230.8P**

| Well #     | DATE       | TOC Elevation | Screened Interval | Depth to Product** (ft)       | Depth to Water** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |  |
|------------|------------|---------------|-------------------|-------------------------------|-----------------------|------------------------|----------------------------|--|
| 12719-MW1  | 8/18/2005  | 104.89        | 20'-30'           | --                            | 23.69                 | --                     | 81.20                      |  |
|            | 10/2/2008  |               | 20'-30'           | --                            | 29.77                 | --                     | 75.12                      |  |
|            | 10/31/2011 |               | 20'-30'           | --                            | 29.20                 | --                     | 75.69                      |  |
|            | 12/30/2014 |               | 20'-30'           | 25.87                         | 26.00                 | 0.13                   | 78.89                      |  |
|            | 7/25/2017  |               | 20'-30'           | 26.35                         | 26.46                 | 0.11                   | 78.43                      |  |
|            | 5/30/2018  |               | 20'-30'           | --                            | 26.45                 | --                     | 78.44                      |  |
|            | 5/30/2018  |               | 20'-30'           | Well Abandoned After Sampling |                       |                        |                            |  |
| 12719-MW1R | 5/30/2018  | 889.6         | TD 36'            | --                            | 26.18                 | --                     | 863.42                     |  |
|            | 9/11/2019  |               | TD 36'            | --                            | 22.46                 | --                     | 867.14                     |  |
|            | 12/11/2019 |               | TD 36'            | --                            | 23.94                 | --                     | 865.66                     |  |
|            | 9/20/2022  |               | TD 36'            | 25.41                         | 25.44                 | 0.03                   | 864.16                     |  |
| 12719-MW2  | 8/18/2005  | Unknown       | 26'-36'           | --                            | 23.69                 | --                     | --                         |  |
|            | 10/2/2008  |               | 26'-36'           | --                            | 29.61                 | --                     | --                         |  |
|            | 10/31/2011 |               | 26'-36'           | --                            | 29.03                 | --                     | --                         |  |
|            | 12/30/2104 |               | 26'-36'           | --                            | 25.41                 | --                     | --                         |  |
|            | 7/25/2017  |               | 26'-36'           | --                            | 26.16                 | --                     | --                         |  |
|            | 5/30/2018  |               | 26'-36'           | Well Abandoned                |                       |                        |                            |  |
| 12719-MW2R | 5/30/2018  | 889.25        | 20'-30'           | --                            | 26.16                 | --                     | 863.09                     |  |
|            | 9/11/2019  |               | 20'-30'           | --                            | 22.43                 | --                     | 866.82                     |  |
|            | 12/10/2019 |               | 20'-30'           | --                            | 23.87                 | --                     | 865.38                     |  |
|            | 9/20/2022  |               | 20'-30'           | --                            | 25.54                 | --                     | 863.71                     |  |
| 12719-MW3  | 5/30/2018  | Unknown       | TD 32'            | --                            | 29.00                 | --                     | --                         |  |
|            | 5/30/2018  |               | TD 32'            | Well Abandoned After Sampling |                       |                        |                            |  |
| 12719-MW3R | 8/18/2005  | 104.92        | 26'-36'           | --                            | 27.15                 | --                     | 77.77                      |  |
|            | 10/2/2008  |               | 26'-36'           | --                            | 32.40                 | --                     | 72.52                      |  |
|            | 10/31/2011 |               | 26'-36'           | --                            | 32.12                 | --                     | 72.80                      |  |
|            | 12/30/2014 |               | 26'-36'           | --                            | 28.56                 | --                     | 76.36                      |  |
|            | 7/25/2017  |               | 26'-36'           | --                            | 29.01                 | --                     | 75.91                      |  |
|            | 5/30/2018  | 890.25        | 26'-36'           | --                            | 29.21                 | --                     | 861.04                     |  |
|            | 9/11/2019  |               | 26'-36'           | --                            | 26.12                 | --                     | 864.13                     |  |
|            | 12/11/2019 |               | 26'-36'           | --                            | 27.44                 | --                     | 862.81                     |  |
|            | 9/20/2022  |               | 26'-36'           | --                            | 28.82                 | --                     | 861.43                     |  |
| 12719-MW4  | 8/18/2005  | 111.32        | 36'-46'           | --                            | 23.25                 | --                     | 88.07                      |  |
|            | 10/2/2008  |               | 36'-46'           | --                            | 29.57                 | --                     | 81.75                      |  |
|            | 10/31/2011 |               | 36'-46'           | Not sampled                   |                       |                        |                            |  |
|            | 12/30/2014 |               | 36'-46'           | --                            | 23.95                 | --                     | 87.37                      |  |
|            | 7/25/2017  | 896.27        | 36'-46'           | --                            | 25.78                 | --                     | 85.54                      |  |
|            | 5/30/2018  |               | 36'-46'           | --                            | 25.45                 | --                     | 870.82                     |  |
|            | 9/10/2019  |               | 36'-46'           | --                            | 21.46                 | --                     | 874.81                     |  |
|            | 12/10/2019 |               | 36'-46'           | --                            | 22.83                 | --                     | 873.44                     |  |
|            | 9/19/2022  |               | 36'-46'           | --                            | 24.78                 | --                     | 871.49                     |  |
| 12719-MW5  | 8/18/2005  | 103.57        | 22'-32'           | --                            | 29.03                 | --                     | 74.54                      |  |
|            | 10/2/2008  |               | 22'-32'           | --                            | 31.94                 | --                     | 71.63                      |  |
|            | 10/31/2011 |               | 22'-32'           | --                            | 31.80                 | --                     | 71.77                      |  |
|            | 12/30/2014 |               | 22'-32'           | --                            | 30.02                 | --                     | 73.55                      |  |
|            | 7/25/2017  |               | 22'-32'           | --                            | 30.51                 | --                     | 73.06                      |  |
|            | 5/30/2018  | 888.97        | 22'-32'           | --                            | 28.20                 | --                     | 860.77                     |  |
|            | 9/10/2019  |               | 22'-32'           | --                            | 27.70                 | --                     | 861.27                     |  |
|            | 12/11/2019 |               | 22'-32'           | --                            | 28.96                 | --                     | 860.01                     |  |
| 9/20/2022  | 22'-32'    | --            | 30.06             | --                            | 858.91                |                        |                            |  |

**TABLE 2**  
**GROUNDWATER POTENTIOMETRIC DATA**  
**HOT SPOT # 3005**  
**CHESNEE, SOUTH CAROLINA**  
**SCDHEC UST PERMIT #12719**  
**TERRY PROJECT #2230.8P**

| Well #      | DATE       | TOC Elevation | Screened Interval | Depth to Product** (ft)            | Depth to Water** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |
|-------------|------------|---------------|-------------------|------------------------------------|-----------------------|------------------------|----------------------------|
| 12719-MW6   | 8/18/2005  | 104.14        | 26'-36'           | --                                 | 24.22                 | --                     | 79.92                      |
|             | 10/2/2008  |               | 26'-36'           | --                                 | 29.89                 | --                     | 74.25                      |
|             | 10/31/2011 |               | 26'-36'           | --                                 | 30.57                 | --                     | 73.57                      |
|             | 12/30/2014 |               | 26'-36'           | --                                 | 25.92                 | --                     | 78.22                      |
|             | 7/25/2017  | 889.14        | 26'-36'           | --                                 | 26.40                 | --                     | 77.74                      |
|             | 5/30/2018  |               | 26'-36'           | --                                 | 26.50                 | --                     | 862.64                     |
|             | 9/10/2019  |               | 26'-36'           | --                                 | 22.83                 | --                     | 866.31                     |
|             | 12/11/2019 |               | 26'-36'           | --                                 | 24.13                 | --                     | 865.01                     |
| 9/20/2022   | 26'-36'    | --            | 26.02             | --                                 | 863.12                |                        |                            |
| 12719-MW7   | 8/18/2005  | 104.52        | 26'-36'           | --                                 | 22.74                 | --                     | 81.78                      |
|             | 10/2/2008  |               | 26'-36'           | --                                 | 28.90                 | --                     | 75.62                      |
|             | 10/31/2011 |               | 26'-36'           | Not sampled                        |                       |                        |                            |
|             | 12/30/2014 |               | 26'-36'           | --                                 | 23.89                 | --                     | 80.63                      |
|             | 7/25/2017  | 889.52        | 26'-36'           | --                                 | 25.31                 | --                     | 79.21                      |
|             | 5/29/2018  |               | 26'-36'           | --                                 | 25.32                 | --                     | 864.20                     |
|             | 9/10/2019  |               | 26'-36'           | --                                 | 21.29                 | --                     | 868.23                     |
|             | 12/9/2019  |               | 26'-36'           | --                                 | 22.24                 | --                     | 867.28                     |
|             | 9/20/2022  |               | 26'-36'           | --                                 | 24.32                 | --                     | 865.20                     |
| 12719-MW8   | 8/18/2005  | 101.79        | Unknown           | --                                 | 18.05                 | --                     | 83.74                      |
|             | 10/2/2008  |               | Unknown           | Well could not be located          |                       |                        |                            |
|             | 10/31/2011 |               | Unknown           | Not sampled                        |                       |                        |                            |
|             | 12/30/2014 |               | Unknown           | --                                 | 21.53                 | --                     | 80.26                      |
|             | 7/25/2017  |               | Unknown           | Could Not Find - Assumed Destroyed |                       |                        |                            |
|             | 5/30/2018  |               | Unknown           | Could Not Find - Assumed Destroyed |                       |                        |                            |
| 12719-MW8R  | 5/29/2018  | 888.01        | 20'-30'           | --                                 | 21.10                 | --                     | 866.91                     |
|             | 9/10/2019  |               | 20'-30'           | --                                 | 17.40                 | --                     | 870.61                     |
|             | 12/9/2019  |               | 20'-30'           | --                                 | 18.76                 | --                     | 869.25                     |
|             | 9/19/2022  |               | 20'-30'           | --                                 | 20.75                 | --                     | 867.26                     |
| 12719-MW9   | 8/18/2005  | 105.43        | Unknown           | --                                 | 22.95                 | --                     | 82.48                      |
|             | 10/2/2008  |               | Unknown           | --                                 | 29.38                 | --                     | 76.05                      |
|             | 10/31/2011 |               | Unknown           | Not sampled                        |                       |                        |                            |
|             | 12/30/2014 |               | Unknown           | --                                 | 24.02                 | --                     | 81.41                      |
|             | 7/25/2017  | 890.41        | Unknown           | --                                 | 25.22                 | --                     | 80.21                      |
|             | 5/29/2018  |               | Unknown           | --                                 | 25.26                 | --                     | 865.15                     |
|             | 9/10/2019  |               | Unknown           | --                                 | 21.13                 | --                     | 869.28                     |
|             | 12/10/2019 |               | Unknown           | --                                 | 22.94                 | --                     | 867.47                     |
| 9/20/2022   | Unknown    | --            | 24.73             | --                                 | 865.68                |                        |                            |
| 12719-MW10  | 8/18/2005  | 96.57         | 17'-27'           | --                                 | --                    | --                     | --                         |
|             | 10/31/2011 |               | 17'-27'           | Not sampled                        |                       |                        |                            |
|             | 12/30/2014 |               | 17'-27'           | Not sampled                        |                       |                        |                            |
|             | 5/29/2018  | 881.60        | 17'-27'           | --                                 | 21.24                 | --                     | 860.36                     |
|             | 9/10/2019  |               | 17'-27'           | --                                 | 18.49                 | --                     | 863.11                     |
|             | 12/9/2019  |               | 17'-27'           | --                                 | 19.68                 | --                     | 861.92                     |
| 9/19/2022   | 17'-27'    | --            | 21.20             | --                                 | 860.40                |                        |                            |
| 12719-MW10R | 8/18/2005  | Unknown       | 22'-32'           | --                                 | 19.67                 | --                     | --                         |
|             | 10/2/2008  |               | 22'-32'           | --                                 | 24.50                 | --                     | --                         |
|             | 10/31/2011 |               | 22'-32'           | --                                 | 24.39                 | --                     | --                         |
|             | 12/30/2014 |               | 22'-32'           | --                                 | 21.13                 | --                     | --                         |
|             | 7/24/2017  | 881.77        | 22'-32'           | --                                 | 21.35                 | --                     | --                         |
|             | 5/29/2018  |               | 22'-32'           | --                                 | 21.42                 | --                     | 860.35                     |
|             | 9/10/2019  |               | 22'-32'           | --                                 | 18.70                 | --                     | 863.07                     |
|             | 12/9/2019  |               | 22'-32'           | --                                 | 19.83                 | --                     | 861.94                     |
| 9/19/2022   | 22'-32'    | --            | 21.47             | --                                 | 860.30                |                        |                            |

**TABLE 2**  
**GROUNDWATER POTENTIOMETRIC DATA**  
**HOT SPOT # 3005**  
**CHESNEE, SOUTH CAROLINA**  
**SCDHEC UST PERMIT #12719**  
**TERRY PROJECT #2230.8P**

| Well #      | DATE       | TOC Elevation | Screened Interval | Depth to Product** (ft)   | Depth to Water** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |
|-------------|------------|---------------|-------------------|---------------------------|-----------------------|------------------------|----------------------------|
| 12719-MW11  | 8/18/2005  | 95.15         | 18'-28'           | --                        | --                    | --                     | --                         |
|             | 10/2/2008  |               | 18'-28'           | --                        | 24.85                 | --                     | 70.30                      |
|             | 10/31/2011 |               | 18'-28'           | Not sampled               |                       |                        |                            |
|             | 12/30/2014 |               | 18'-28'           | Not sampled               |                       |                        |                            |
|             | 5/29/2018  | 880.2         | 18'-28'           | --                        | 21.90                 | --                     | 858.3                      |
|             | 9/10/2019  |               | 18'-28'           | --                        | 20.06                 | --                     | 860.14                     |
|             | 12/9/2019  |               | 18'-28'           | --                        | 20.89                 | --                     | 859.31                     |
|             | 9/19/2022  |               | 18'-28'           | --                        | 22.51                 | --                     | 857.69                     |
| 12719-MW11R | 8/18/2005  | Unknown       | 22'-32'           | --                        | 20.68                 | --                     | --                         |
|             | 10/2/2008  |               | 22'-32'           | Well could not be located |                       |                        |                            |
|             | 10/31/2011 |               | 22'-32'           | Not sampled               |                       |                        |                            |
|             | 12/30/2014 |               | 22'-32'           | --                        | 21.91                 | --                     | --                         |
|             | 7/24/2017  | 880.33        | 22'-32'           | --                        | 22.50                 | --                     | --                         |
|             | 5/29/2018  |               | 22'-32'           | Obstructed                |                       |                        |                            |
|             | 9/10/2019  |               | 22'-32'           | --                        | 20.25                 | --                     | 860.08                     |
|             | 12/9/2019  |               | 22'-32'           | --                        | 20.80                 | --                     | 859.53                     |
|             | 9/19/2022  |               | 22'-32'           | --                        | 22.48                 | --                     | 857.85                     |
| 12719-MW12  | 8/18/2005  | 97.03         | 20'-30'           | --                        | 19.57                 | --                     | 77.46                      |
|             | 10/2/2008  |               | 20'-30'           | --                        | 25.35                 | --                     | 71.68                      |
|             | 10/31/2011 |               | 20'-30'           | Not sampled               |                       |                        |                            |
|             | 12/30/2014 |               | 20'-30'           | --                        | 21.37                 | --                     | 75.66                      |
|             | 7/24/2017  | 882.13        | 20'-30'           | --                        | 21.10                 | --                     | 75.93                      |
|             | 5/29/2018  |               | 20'-30'           | --                        | 20.91                 | --                     | 861.22                     |
|             | 9/10/2019  |               | 20'-30'           | --                        | 17.89                 | --                     | 864.24                     |
|             | 12/9/2019  |               | 20'-30'           | --                        | 19.37                 | --                     | 862.76                     |
|             | 9/19/2022  |               | 20'-30'           | --                        | 21.55                 | --                     | 860.58                     |
| 12719-MW13  | 8/18/2005  | 95.89         | 17'-27'           | --                        | 20.62                 | --                     | 75.27                      |
|             | 10/2/2008  |               | 17'-27'           | --                        | 25.27                 | --                     | 70.62                      |
|             | 10/31/2011 |               | 17'-27'           | Not sampled               |                       |                        |                            |
|             | 12/30/2014 |               | 17'-27'           | --                        | 22.08                 | --                     | 73.81                      |
|             | 7/24/2017  | 880.92        | 17'-27'           | --                        | 21.91                 | --                     | 73.98                      |
|             | 5/29/2018  |               | 17'-27'           | --                        | 21.63                 | --                     | 859.29                     |
|             | 9/10/2019  |               | 17'-27'           | --                        | 19.65                 | --                     | 861.27                     |
|             | 12/9/2019  |               | 17'-27'           | --                        | 20.52                 | --                     | 860.40                     |
|             | 9/19/2022  |               | 17'-27'           | --                        | 22.74                 | --                     | 858.18                     |
| 12719-MW14  | 8/18/2005  | Unknown       | 21'-31'           | --                        | 24.84                 | --                     | --                         |
|             | 10/2/2008  |               | 21'-31'           | --                        | 28.46                 | --                     | --                         |
|             | 10/31/2011 |               | 21'-31'           | Not sampled               |                       |                        |                            |
|             | 12/30/2014 |               | 21'-31'           | --                        | 30.60                 | --                     | --                         |
|             | 7/25/2017  | 882.98        | 21'-31'           | --                        | 26.03                 | --                     | --                         |
|             | 5/29/2018  |               | 21'-31'           | --                        | 25.78                 | --                     | 857.20                     |
|             | 9/11/2019  |               | 21'-31'           | --                        | 24.12                 | --                     | 858.86                     |
|             | 12/10/2019 |               | 21'-31'           | --                        | 24.92                 | --                     | 858.06                     |
|             | 9/20/2022  |               | 21'-31'           | --                        | 26.12                 | --                     | 856.86                     |
| 12719-MW15  | 7/25/2017  | 99.70         | 25'-35'           | --                        | 28.60                 | --                     | 71.10                      |
|             | 5/29/2018  | 885.13        | 25'-35'           | --                        | 28.20                 | --                     | 856.93                     |
|             | 9/10/2019  |               | 25'-35'           | --                        | 26.42                 | --                     | 858.71                     |
|             | 12/10/2019 |               | 25'-35'           | --                        | 27.29                 | --                     | 857.84                     |
|             | 9/19/2022  |               | 25'-35'           | --                        | 28.88                 | --                     | 856.25                     |
| 12719-MW16  | 7/25/2017  | 101.75        | 28'-38'           | --                        | 30.43                 | --                     | 71.32                      |
|             | 5/29/2018  | 887.14        | 28'-38'           | --                        | 30.09                 | --                     | 857.05                     |
|             | 9/11/2019  |               | 28'-38'           | --                        | 28.34                 | --                     | 858.80                     |
|             | 12/11/2019 |               | 28'-38'           | --                        | 29.25                 | --                     | 857.89                     |
|             | 9/20/2022  |               | 28'-38'           | --                        | 30.35                 | --                     | 856.79                     |

**TABLE 2**  
**GROUNDWATER POTENTIOMETRIC DATA**  
**HOT SPOT # 3005**  
**CHESNEE, SOUTH CAROLINA**  
**SCDHEC UST PERMIT #12719**  
**TERRY PROJECT #2230.8P**

| Well #     | DATE       | TOC Elevation | Screened Interval | Depth to Product** (ft) | Depth to Water** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |
|------------|------------|---------------|-------------------|-------------------------|-----------------------|------------------------|----------------------------|
| 12719-MW17 | 5/30/2018  | 881.76        | 20'-30'           | --                      | 25.63                 | --                     | 856.13                     |
|            | 9/10/2019  |               | 20'-30'           | --                      | 24.55                 | --                     | 857.21                     |
|            | 12/9/2019  |               | 20'-30'           | --                      | 25.13                 | --                     | 856.63                     |
|            | 9/19/2022  |               | 20'-30'           | --                      | 26.28                 | --                     | 855.48                     |
| 12719-MW18 | 5/30/2018  | 879.53        | 20'-30'           | --                      | 23.86                 | --                     | 855.67                     |
|            | 9/10/2019  |               | 20'-30'           | --                      | 22.96                 | --                     | 856.57                     |
|            | 12/9/2019  |               | 20'-30'           | --                      | 23.44                 | --                     | 856.09                     |
|            | 9/19/2022  |               | 20'-30'           | --                      | 24.55                 | --                     | 854.98                     |
| 12719-MW19 | 5/29/2018  | 880.71        | 20'-30'           | --                      | 25.43                 | --                     | 855.28                     |
|            | 9/11/2019  |               | 20'-30'           | --                      | 25.54                 | --                     | 855.17                     |
|            | 12/10/2019 |               | 20'-30'           | --                      | 25.02                 | --                     | 855.69                     |
|            | 9/20/2022  |               | 20'-30'           | --                      | 26.23                 | --                     | 854.48                     |
| 12719-MW20 | 5/29/2018  | 880.36        | 20'-30'           | --                      | 25.80                 | --                     | 854.56                     |
|            | 9/11/2019  |               | 20'-30'           | --                      | 25.09                 | --                     | 855.27                     |
|            | 12/10/2019 |               | 20'-30'           | --                      | 25.49                 | --                     | 854.87                     |
|            | 9/20/2022  |               | 20'-30'           | --                      | 26.68                 | --                     | 853.68                     |
| 12719-MW21 | 5/29/2018  | 879.02        | 20'-30'           | --                      | 24.98                 | --                     | 854.04                     |
|            | 9/11/2019  |               | 20'-30'           | --                      | 24.57                 | --                     | 854.45                     |
|            | 12/10/2019 |               | 20'-30'           | --                      | 24.81                 | --                     | 854.21                     |
|            | 9/20/2022  |               | 20'-30'           | --                      | 25.95                 | --                     | 853.07                     |
| 12719-MW22 | 5/30/2018  | 892.06        | 25'-35'           | --                      | 30.34                 | --                     | 861.72                     |
|            | 9/11/2019  |               | 25'-35'           | --                      | 25.85                 | --                     | 866.21                     |
|            | 12/10/2019 |               | 25'-35'           | --                      | 27.68                 | --                     | 864.38                     |
|            | 9/19/2022  |               | 25'-35'           | --                      | 29.40                 | --                     | 862.66                     |
| 12719-MW23 | 5/30/2018  | 890.38        | 25'-35'           | --                      | 29.34                 | --                     | 861.04                     |
|            | 9/11/2019  |               | 25'-35'           | --                      | 25.43                 | --                     | 864.95                     |
|            | 12/10/2019 |               | 25'-35'           | --                      | 27.00                 | --                     | 863.38                     |
|            | 9/19/2022  |               | 25'-35'           | --                      | 28.53                 | --                     | 861.85                     |
| 12719-MW24 | 5/30/2018  | 883.91        | 24'-34'           | --                      | 27.37                 | --                     | 856.54                     |
|            | 9/10/2019  |               | 24'-34'           | --                      | 26.75                 | --                     | 857.16                     |
|            | 12/10/2019 |               | 24'-34'           | --                      | 27.41                 | --                     | 856.50                     |
|            | 9/19/2022  |               | 24'-34'           | --                      | 28.49                 | --                     | 855.42                     |
| 12719-MW25 | 5/30/2018  | 881.63        | 20'-30'           | --                      | 25.06                 | --                     | 856.57                     |
|            | 9/11/2019  |               | 20'-30'           | --                      | 23.60                 | --                     | 858.03                     |
|            | 12/10/2019 |               | 20'-30'           | --                      | 24.32                 | --                     | 857.31                     |
|            | 9/20/2022  |               | 20'-30'           | --                      | 25.42                 | --                     | 856.21                     |
| 12719-RW1  | 5/30/2018  | 889.73        | 20'-30'           | --                      | 26.39                 | --                     | 863.34                     |
|            | 9/11/2019  |               | 20'-30'           | 22.26                   | 22.46                 | 0.20                   | 867.27                     |
|            | 12/11/2019 |               | 20'-30'           | 23.93                   | 24.03                 | 0.10                   | 865.70                     |
|            | 9/20/2022  |               | 20'-30'           | 25.60                   | 25.74                 | 0.14                   | 863.99                     |
| 12719-RW2  | 5/30/2018  | 889.52        | 20'-30'           | --                      | 26.29                 | --                     | 863.23                     |
|            | 9/11/2019  |               | 20'-30'           | --                      | 22.32                 | --                     | 867.20                     |
|            | 12/11/2019 |               | 20'-30'           | --                      | 24.22                 | --                     | 865.30                     |
|            | 9/20/2022  |               | 20'-30'           | 25.59                   | 26.09                 | 0.50                   | 863.43                     |
| 12719-RW3  | 5/30/2018  | 890.37        | 25'-35'           | --                      | 29.35                 | --                     | 861.02                     |
|            | 9/11/2019  |               | 25'-35'           | --                      | 26.14                 | --                     | 864.23                     |
|            | 12/11/2019 |               | 25'-35'           | --                      | 27.64                 | --                     | 862.73                     |
|            | 9/20/2022  |               | 25'-35'           | --                      | 29.14                 | --                     | 861.23                     |



**TABLE 2**  
**GROUNDWATER POTENTIOMETRIC DATA**  
**HOT SPOT # 3005**  
**CHESNEE, SOUTH CAROLINA**  
**SCDHEC UST PERMIT #12719**  
**TERRY PROJECT #2230.8P**

| Well #     | DATE       | TOC Elevation | Screened Interval | Depth to Product** (ft) | Depth to Water** (ft) | Product Thickness (ft) | Water Table Elevation (ft) |
|------------|------------|---------------|-------------------|-------------------------|-----------------------|------------------------|----------------------------|
| 12719-MW1D | 8/18/2005  | 104.61        | 55'-60'           | --                      | 24.60                 | --                     | 80.01                      |
|            | 10/2/2008  |               | 55'-60'           | --                      | 30.46                 | --                     | 74.15                      |
|            | 10/31/2011 |               | 55'-60'           | --                      | 30.03                 | --                     | 74.58                      |
|            | 12/30/2014 |               | 55'-60'           | --                      | 26.82                 | --                     | 77.79                      |
|            | 7/25/2017  | 889.64        | 55'-60'           | --                      | 27.05                 | --                     | 77.56                      |
|            | 5/30/2018  |               | 55'-60'           | --                      | 27.07                 | --                     | 862.57                     |
|            | 9/11/2019  |               | 55'-60'           | --                      | 23.18                 | --                     | 866.46                     |
|            | 12/10/2019 |               | 55'-60'           | --                      | 24.68                 | --                     | 864.96                     |
|            | 9/20/2022  |               | 55'-60'           | --                      | 26.38                 | --                     | 863.26                     |
| 12719-DW2  | 5/30/2018  | 887.23        | 55'-60'           | --                      | 30.44                 | --                     | 856.79                     |
|            | 9/11/2019  |               | 55'-60'           | --                      | 28.91                 | --                     | 858.32                     |
|            | 12/10/2019 |               | 55'-60'           | --                      | 29.67                 | --                     | 857.56                     |
|            | 9/20/2022  |               | 55'-60'           | --                      | 30.84                 | --                     | 856.39                     |
| 12719-DW3  | 5/30/2018  | 883.42        | 60'-65'           | --                      | 61.60                 | --                     | 821.82                     |
|            | 9/10/2019  |               | 60'-65'           | --                      | 25.10                 | --                     | 858.32                     |
|            | 12/10/2019 |               | 60'-65'           | --                      | 35.04                 | --                     | 848.38                     |
|            | 9/19/2022  |               | 60'-65'           | --                      | 27.10                 | --                     | 856.32                     |

\*\* = Relative to top of casing

-- = Not applicable

TD = Total depth

| TABLE 3<br>GROUNDWATER LABORATORY DATA<br>HOT SPOT #3005<br>CHESNEE, SC<br>SCDHEC USE PERMIT #12719<br>TERRY PROJECT #2230.RP |            |         |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |
|---|------------|---------|---------|--------------|---------|-------------|-------|---------|--------|--------|--------|-------|-------|--------|---------|--------|-------|
| Well  | Date       | Benzene | Toluene | Ethylbenzene | Xylenes | Naphthalene | MTBE  | 1,2-DCA | EDB    | TAME   | TBA    | DPE   | ETBE  | ETBA   | Ethanol | TAA    | TBF   |
|   | Units      | ug/L    | ug/L    | ug/L         | ug/L    | ug/L        | ug/L  | ug/L    | ug/L   | ug/L   | ug/L   | ug/L  | ug/L  | ug/L   | ug/L    | ug/L   | ug/L  |
|   | 8/18/2005  | 85      | 110     | 42           | 170     | 41          | <5.0  | NT      | NT     | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |
|   | 10/2/2008  |         |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |
| 12719-MW1   | 10/31/2011 |         |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |
|   | 12/30/2014 | 57.6    | 1.93    | 36.8         | 176     | 91.4        | 8.03  | <1.00   | <1.00  | <1.00  | <1.00  | <5.00 | <5.00 | <100   | <1,000  | 7.423  | <5.00 |
|   | 7/25/2017  |         |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |
|   | 5/30/2018  | 85      | 4.4     | 81           | 240     | 100         | <1.0  | <1.0    | NT     | <10    | <20    | <1.0  | <1.0  | <20    | <100    | 193    | <5.0  |
|   | 5/30/2018  |         |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |
| 12719-MW1R  | 5/30/2018  | 93      | 9.3     | 89           | 420     | 79          | <5.0  | <5.0    | NT     | <50    | <100   | <5.0  | <5.0  | <100   | <500    | <100   | <25   |
|   | 9/11/2019  | 37      | 2.0     | 64           | 220     | 99          | <1.0  | <1.0    | <0.019 | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |
|   | 12/11/2019 | 46      | 3.3     | 74           | 240     | 110         | <1.0  | <1.0    | NT     | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |
|   | 9/20/2022  |         |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |
| 12719-MW2   | 8/18/2005  | 90      | 100     | 78           | 350     | 94          | 8.9   | NT      | NT     | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |
|   | 10/2/2008  | <1.00   | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |
|   | 10/31/2011 | <1.00   | <1.00   | <1.00        | <3.00   | 2.233       | 11.1  | <1.00   | NT     | <5.00  | <10.0  | <5.00 | <5.00 | <100   | <1,000  | 46.3   | <5.00 |
|   | 12/30/2014 | 100     | 4.6     | 98           | 380     | 120         | <1.0  | <1.0    | NT     | 0.253  | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |
|   | 7/25/2017  | 64      | 6.7     | 55           | 230     | 68          | <5.0  | <5.0    | <0.020 | <50    | <100   | <5.0  | <5.0  | <100   | <500    | <100   | <25   |
|   | 5/30/2018  |         |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |
| 12719-MW2R  | 5/30/2018  | 5.4     | <1.0    | 12           | 73      | 28          | <1.0  | <1.0    | NT     | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |
|   | 9/11/2019  | 4.9     | <1.0    | 0.583        | 3.1     | <1.0        | 1.9   | <1.0    | <0.019 | <10    | 26     | 0.563 | <1.0  | <20    | <100    | 9.33   | <5.0  |
|   | 12/10/2019 | 4.2     | <1.0    | 1.9          | 7.6     | 1.8         | 0.733 | <1.0    | NT     | <10    | 9.33   | <1.0  | <1.0  | <20    | <100    | 103    | <5.0  |
|   | 9/20/2022  | 14      | 1.2     | 55           | 280     | 76          | <1.0  | <1.0    | <0.019 | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |
|   | 5/30/2018  | 3,760   | <100    | 210          | 1,500   | 963         | 130   | <100    | NT     | <1000  | <2,000 | 130   | <100  | <2,000 | <10,000 | 2,660  | <500  |
|   | 5/30/2018  |         |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |
| 12719-MW3R  | 8/18/2005  | 270     | 41      | 170          | 880     | 430         | 330   | NT      | NT     | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |
|   | 10/2/2008  | 563     | <25.0   | 272          | 261     | 96.53       | 4,160 | <25.0   | <0.010 | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |
|   | 10/31/2011 | 196     | <20.0   | 39.1         | 31.33   | 143         | 2,660 | <20.0   | NT     | 163    | 255    | 53.33 | <100  | <2,000 | <20,000 | 2833   | <100  |
|   | 12/30/2014 | 1,300   | 38      | 77           | 530     | 143         | 85    | <20     | NT     | 5.33   | 2503   | 30    | <20   | <400   | <2,000  | 2,500  | <100  |
|   | 7/25/2017  | 3,800   | 140     | 270          | 1,500   | 433         | <100  | <100    | <0.020 | <1,000 | <2,000 | 100   | <100  | <2,000 | <10,000 | 2,700  | <500  |
|   | 5/30/2018  | 160     | <5.0    | <5.0         | 30      | 2.03        | <5.0  | <5.0    | NT     | <50    | <100   | 4.13  | <5.0  | <100   | <500    | 683    | <25   |
|   | 9/11/2019  | 860     | <10     | 17           | 73      | 28          | 41    | <10     | <0.019 | 123    | 1703   | 130   | <10   | <200   | 1,300   | 730    | <50   |
| 12/11/2019  | 1,100      | <10     | 47      | 12           | 95      | 85          | <10   | NT      | 313    | 270    | 330    | <10   | <200  | <1,000 | 1,000   | <50    |       |
|   | 9/20/2022  | 550     | 59      | 130          | 430     | 56          | 54    | <10     | <0.020 | 163    | 923    | 120   | <10   | <200   | <1,000  | 380    | <50   |
| 12719-MW4   | 8/18/2005  | <1.0    | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |
|   | 10/2/2008  | <1.00   | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |
|   | 10/31/2011 |         |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |
|   | 12/30/2014 | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |
|   | 7/25/2017  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |
|   | 5/30/2018  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |
|   | 9/10/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |
| 9/19/2022   | <1.0       | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <0.019  | <10    | <20    | <1.0   | <1.0  | <20   | <100   | <20     | <5.0   |       |
|   | 8/18/2005  | <1.0    | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT     | NT     | NT    | NT    | NT     | NT      | NT     | NT    |
|   | 10/2/2008  |         |         |              |         |             |       |         |        |        |        |       |       |        |         |        |       |
| 12719-MW5   | 10/31/2011 | 110     | 11.5    | <1.00        | 9.27    | <5.00       | 4.31  | <1.00   | NT     | <5.00  | 7.113  | <5.00 | <5.00 | <100   | <1,000  | 32.0   | <5.00 |
|   | 12/30/2014 | 680     | 910     | 72           | 360     | <20         | <20   | <20     | NT     | <200   | <400   | <20   | <20   | <400   | <2,000  | 1303   | <100  |
|   | 7/25/2017  | 1,500   | 1,500   | 73           | 1,300   | <50         | <50   | <50     | <0.020 | <500   | <1,000 | <50   | <50   | <1,000 | <5,000  | <1,000 | <250  |
|   | 5/30/2018  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |
|   | 9/10/2019  | 1,300   | 910     | 120          | 1,500   | 833         | 24    | <20     | <0.019 | <200   | <400   | <20   | <20   | <400   | <2,000  | 3383   | <100  |
|   | 12/11/2019 | 1,300   | 810     | 89           | 1,500   | <10         | 20    | <10     | NT     | <100   | <200   | <10   | <10   | <200   | <1,000  | 260    | <50   |
|   | 9/20/2022  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10    | <20    | <1.0  | <1.0  | <20    | <100    | <20    | <5.0  |

| TABLE 3<br>GROUNDWATER LABORATORY DATA<br>HOT SPOT #3005<br>CHESSNEE, SC<br>SCDHEC USE PERMIT #12719<br>TERRY PROJECT #2230.RP |                           |                |         |              |         |             |       |         |        |        |       |       |      |        |         |       |       |
|--|---------------------------|----------------|---------|--------------|---------|-------------|-------|---------|--------|--------|-------|-------|------|--------|---------|-------|-------|
| Well   | Date                      | Benzene        | Toluene | Ethylbenzene | Xylenes | Naphthalene | MTBE  | 1,2-DCA | EDB    | TAME   | TBA   | DPE   | ETBE | ETBA   | Ethanol | TAA   | TBF   |
|  | Units                     | ug/L           | ug/L    | ug/L         | ug/L    | ug/L        | ug/L  | ug/L    | ug/L   | ug/L   | ug/L  | ug/L  | ug/L | ug/L   | ug/L    | ug/L  | ug/L  |
|  | RBSL                      | 5              | 1,000   | 700          | 10,000  | 25          | 40    | 5       | 0.05   | 128    | 1,400 | 150   | 47   | n/a    | 10,000  | 240   | n/a   |
| 12719-MW6  | 8/18/2005                 | 7.8            | 6.3     | 5.5          | 52      | 22          | 6.8   | NT      | NT     | NT     | NT    | NT    | NT   | NT     | NT      | NT    | NT    |
|  | 10/2/2008                 | 9.16           | 1.15    | 16.9         | 133     | 43.8        | <1.00 | <1.00   | <0.010 | NT     | NT    | NT    | NT   | NT     | NT      | NT    | NT    |
|  | 10/31/2011                | 10.4           | <1.00   | 1.17         | 91.5    | 65.4        | <1.00 | <1.00   | NT     | <5.00  | <10.0 | <5.00 | <100 | <1,000 | 8,520   | <5.00 | <5.00 |
|  | 12/30/2014                | 2.2            | <1.0    | <1.0         | 13      | 9.2         | <1.0  | <1.0    | NT     | 0.34J  | 12J   | 1.1   | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 7/25/2017                 | 1.7            | <1.0    | 0.45J        | 2.8     | <1.0        | 2.1   | <1.0    | <0.020 | <10    | 11J   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 5/30/2018                 | 2.2            | <1.0    | 0.61J        | 3.5     | 0.54J       | 1.6   | <1.0    | NT     | <10    | 18J   | 0.42J | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 9/10/2019                 | 24             | <1.0    | 0.54J        | 29      | 16          | 4.3   | <1.0    | <0.019 | <10    | 18J   | 0.74J | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 12/11/2019                | 26             | <1.0    | 0.82J        | 39      | 18          | 3.3   | <1.0    | NT     | <10    | 22    | 0.78J | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 9/20/2022                 | 8.3            | <1.0    | <1.0         | 28      | 13          | 0.97J | <1.0    | <0.019 | <10    | 68    | <1.0  | <1.0 | <20    | <100    | 12J   | <5.0  |
|  | 8/18/2005                 | <1.0           | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT     | NT    | NT    | NT   | NT     | NT      | NT    | NT    |
| 10/2/2008  | <1.00                     | <1.00          | <1.00   | <3.00        | <5.00   | <1.00       | <1.00 | <0.010  | NT     | NT     | NT    | NT    | NT   | NT     | NT      | NT    | NT    |
| 10/31/2011   | Not sampled               |                |         |              |         |             |       |         |        |        |       |       |      |        |         |       |       |
| 12719-MW7  | 12/30/2014                | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 7/25/2017                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 5/29/2018                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 9/10/2019                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 12/9/2019                 | <1.0           | <1.0    | 2.0          | 12      | 1.8         | <1.0  | <1.0    | NT     | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 9/20/2022                 | <1.0           | <1.0    | <1.0         | 1.3     | <1.0        | <1.0  | <1.0    | <0.019 | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 8/18/2005                 | <1.0           | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT     | NT    | NT    | NT   | NT     | NT      | NT    | NT    |
| 10/2/2008  | Well could not be located |                |         |              |         |             |       |         |        |        |       |       |      |        |         |       |       |
| 10/31/2011   | Not sampled               |                |         |              |         |             |       |         |        |        |       |       |      |        |         |       |       |
| 12719-MW8  | 12/30/2014                | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 7/25/2017                 | Could Not Find |         |              |         |             |       |         |        |        |       |       |      |        |         |       |       |
|  | 5/29/2018                 | Could Not Find |         |              |         |             |       |         |        |        |       |       |      |        |         |       |       |
|  | 8/18/2005                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
| 12719-MW8R   | 9/10/2019                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 12/9/2019                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 9/19/2022                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 8/18/2005                 | <1.0           | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT     | NT    | NT    | NT   | NT     | NT      | NT    | NT    |
|  | 10/2/2008                 | <1.00          | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT     | NT    | NT    | NT   | NT     | NT      | NT    | NT    |
| 10/31/2011   | Not sampled               |                |         |              |         |             |       |         |        |        |       |       |      |        |         |       |       |
| 12719-MW9  | 12/30/2014                | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 7/25/2017                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 5/29/2018                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 9/10/2019                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 12/10/2019                | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 9/20/2022                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 8/18/2005                 | Not sampled    |         |              |         |             |       |         |        |        |       |       |      |        |         |       |       |
| 10/2/2008  | Not sampled               |                |         |              |         |             |       |         |        |        |       |       |      |        |         |       |       |
| 10/31/2011   | Not sampled               |                |         |              |         |             |       |         |        |        |       |       |      |        |         |       |       |
| 12719-MW10   | 5/29/2018                 | <1.0           | <1.0    | <1.0         | <1.0    | 2.0         | <1.0  | <1.0    | NT     | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 9/10/2019                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 12/9/2019                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 9/19/2022                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 8/18/2005                 | <1.0           | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT     | NT    | NT    | NT   | NT     | NT      | NT    | NT    |
|  | 10/2/2008                 | <1.00          | <1.00   | <1.00        | <3.00   | <5.00       | <1.00 | <1.00   | <0.010 | NT     | NT    | NT    | NT   | NT     | NT      | NT    | NT    |
| 10/31/2011   | <1.00                     | <1.00          | <1.00   | <3.00        | 1.88J   | <1.00       | <1.00 | NT      | <5.00  | <10.00 | <5.00 | <5.00 | <100 | <1,000 | <20.00  | <5.00 |       |
| 12719-MW10R  | 12/30/2014                | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 7/24/2017                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 5/29/2018                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 9/10/2019                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 12/9/2019                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 9/19/2022                 | <1.0           | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10    | <20   | <1.0  | <1.0 | <20    | <100    | <20   | <5.0  |
|  | 8/18/2005                 | <1.0           | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT     | NT    | NT    | NT   | NT     | NT      | NT    | NT    |



| TABLE 3<br>GROUNDWATER LABORATORY DATA<br>HOT SPOT #3005<br>CHESSEE, SC<br>SCDHEC UST PERMIT #12719<br>TERRY PROJECT #2250.RP |            |                        |         |              |         |             |       |         |        |       |        |       |       |        |         |       |       |
|---|------------|------------------------|---------|--------------|---------|-------------|-------|---------|--------|-------|--------|-------|-------|--------|---------|-------|-------|
| Well  | Date       | Benzene                | Toluene | Ethylbenzene | Xylenes | Naphthalene | MTBE  | 1,2-DCA | EDB    | TAME  | TBA    | DPE   | ETBE  | ETBA   | Ethanol | TAA   | TBF   |
|   | Units      | ug/L                   | ug/L    | ug/L         | ug/L    | ug/L        | ug/L  | ug/L    | ug/L   | ug/L  | ug/L   | ug/L  | ug/L  | ug/L   | ug/L    | ug/L  | ug/L  |
|   | RBSL       | 5                      | 1,000   | 700          | 10,000  | 25          | 40    | 5       | 0.05   | 128   | 1,400  | 150   | 47    | n/a    | 10,000  | 240   | n/a   |
| 12719-MW17  | 7/25/2017  | 1,000                  | 120     | 25           | 50      | 17          | 150   | <20     | <0.020 | 12    | <400   | <20   | <20   | <400   | <2,000  | 1,000 | <100  |
|   | 5/30/2018  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 9/10/2019  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 12/9/2019  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-MW18  | 9/19/2022  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 5/30/2018  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 9/10/2019  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 12/9/2019  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-MW19  | 9/19/2022  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 5/30/2018  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 9/10/2019  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 12/10/2019 | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-MW20  | 9/20/2022  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 5/29/2018  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | 1.2   | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 9/11/2019  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | 1.0   | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 12/10/2019 | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | 0.97  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-MW21  | 9/20/2022  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | 1.7   | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 5/29/2018  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | 1.3   | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 9/11/2019  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | 3.4   | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | 7.1     | <20   | <5.0  |
|   | 12/10/2019 | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | 2.8   | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-MW22  | 9/20/2022  | 1.7                    | <1.0    | <1.0         | <1.0    | <1.0        | 10    | <1.0    | <0.019 | <10   | <20    | 1.2   | <1.0  | <20    | <100    | 12    | <5.0  |
|   | 5/30/2018  | <1.0                   | <1.0    | <1.0         | 6.6     | 15          | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 9/11/2019  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 12/10/2019 | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-MW23  | 9/19/2022  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 5/30/2018  | <1.0                   | <1.0    | <1.0         | 19      | 12          | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 9/11/2019  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 12/10/2019 | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-MW24  | 9/19/2022  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 5/30/2018  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 9/10/2019  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 12/10/2019 | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-MW25  | 9/20/2022  | 5.6                    | <1.0    | <1.0         | 2.0     | <1.0        | 13    | <1.0    | <0.019 | 1.0   | 8.2    | 6.2   | <1.0  | <20    | <100    | 35    | <5.0  |
|   | 5/30/2018  | 67                     | 14      | 81           | 320     | 140         | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | 12    | <5.0  |
|   | 9/11/2019  |                        |         |              |         |             |       |         |        |       |        |       |       |        |         |       |       |
|   | 12/11/2019 |                        |         |              |         |             |       |         |        |       |        |       |       |        |         |       |       |
| 12719-RW1   | 9/20/2022  | Free Product (0.20 ft) |         |              |         |             |       |         |        |       |        |       |       |        |         |       |       |
|   | 5/30/2018  | Free Product (0.10 ft) |         |              |         |             |       |         |        |       |        |       |       |        |         |       |       |
|   | 9/11/2019  | Free Product (0.14 ft) |         |              |         |             |       |         |        |       |        |       |       |        |         |       |       |
|   | 9/20/2022  | Free Product (0.50 ft) |         |              |         |             |       |         |        |       |        |       |       |        |         |       |       |
| 12719-RW2   | 5/30/2018  | 21                     | 0.58    | 35           | 140     | 82          | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 9/11/2019  | 7.3                    | 0.41    | 3.4          | 56      | 32          | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 12/11/2019 | 15                     | 0.69    | 13           | 150     | 68          | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 9/20/2022  | Free Product (0.50 ft) |         |              |         |             |       |         |        |       |        |       |       |        |         |       |       |
| 12719-RW3   | 5/30/2018  | 1,800                  | <50     | 120          | 360     | 293         | 380   | <50     | NT     | <500  | <1,000 | 493   | <50   | <1,000 | <5,000  | 1,400 | <250  |
|   | 9/11/2019  | 2,400                  | 42      | 60           | 1,100   | 343         | 41    | <50     | <0.019 | <500  | 863    | 160   | <50   | <1,000 | <5,000  | 2,900 | <250  |
|   | 12/11/2019 | 3,000                  | <50     | 79           | 1,100   | 443         | 130   | <50     | NT     | <500  | <1,000 | 190   | <50   | <1,000 | <5,000  | 2,800 | <250  |
|   | 9/20/2022  | 2,500                  | 230     | 550          | 1,800   | 140         | 110   | <20     | <0.020 | 31    | 300    | 250   | <20   | <400   | <2,000  | 1,000 | <100  |
| 12719-RW3 (DLP)   | 9/20/2022  | 2,500                  | 230     | 600          | 1,800   | 140         | 150   | <20     | <0.020 | 33    | 310    | 250   | <20   | <400   | <2,000  | 1,200 | <100  |
|   | 8/18/2005  | <1.0                   | <5.0    | <5.0         | <10     | <5.0        | <5.0  | NT      | NT     | NT    | NT     | NT    | NT    | NT     | NT      | NT    | NT    |
|   | 10/2/2008  | <1.00                  | <1.00   | <1.00        | <3.00   | <5.00       | <3.00 | <1.00   | <0.010 | NT    | NT     | NT    | NT    | NT     | NT      | NT    | NT    |
|   | 10/31/2011 | <1.00                  | <1.00   | <1.00        | <3.00   | <5.00       | <3.00 | <1.00   | NT     | <5.00 | <10.0  | <5.00 | <5.00 | <100   | <1,000  | <20.0 | <5.00 |
| 12719-MW1D  | 12/30/2014 | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 7/25/2017  | 0.43                   | <1.0    | <1.0         | 0.68    | 0.42        | <1.0  | <1.0    | <0.020 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 5/30/2018  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 9/11/2019  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
| 12719-MW1D  | 12/10/2019 | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |
|   | 9/20/2022  | <1.0                   | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10   | <20    | <1.0  | <1.0  | <20    | <100    | <20   | <5.0  |

**TABLE 3  
GROUNDWATER LABORATORY DATA  
HOT SPOT #3005  
CHESNEE, SC  
SCDHEC UST PERMIT #12719  
TERRY PROJECT #2250.RP**

| Well      | Date       | Benzene | Toluene | Ethylbenzene | Xylenes | Naphthalene | MTBE  | 1,2-DCA | EDB    | TAME | TBA   | DIPE | ETBE | ETBA | Ethanol | TAA  | TBF  |
|-----------|------------|---------|---------|--------------|---------|-------------|-------|---------|--------|------|-------|------|------|------|---------|------|------|
|           | Units      | ug/L    | ug/L    | ug/L         | ug/L    | ug/L        | ug/L  | ug/L    | ug/L   | ug/L | ug/L  | ug/L | ug/L | ug/L | ug/L    | ug/L | ug/L |
|           | RBSL       | 5       | 1,000   | 700          | 10,000  | 25          | 40    | 5       | 0.05   | 128  | 1,400 | 150  | 47   | n/a  | 10,000  | 240  | n/a  |
| 12719-DW2 | 5/30/2018  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
|           | 9/11/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | 0.68J | <1.0    | <0.019 | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
|           | 12/10/2019 | <1.0    | 0.42J   | <1.0         | <1.0    | <1.0        | 0.55J | <1.0    | NT     | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
| 12719-DW3 | 9/20/2022  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
|           | 5/30/2018  | <1.0    | 0.81J   | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
|           | 9/10/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10  | 33    | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
|           | 12/10/2019 | <1.0    | 1.6     | <1.0         | 1.4     | 0.66J       | <1.0  | <1.0    | NT     | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
| 12719-SW1 | 9/19/2022  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.020 | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
|           | 5/30/2018  | <1.0    | <1.0    | <1.0         | <1.0    | 2.0         | 1.4   | <1.0    | NT     | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
|           | 9/11/2019  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
|           | 12/11/2019 | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
| 12719-FB1 | 9/20/2022  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | 1.7   | <1.0    | <0.020 | <10  | <20   | <1.0 | <1.0 | <20  | 290     | <20  | <5.0 |
|           | 9/19/2022  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | <0.019 | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |
| 12719-FB2 | 9/20/2022  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <0.020  | <10    | <20  | <1.0  | <1.0 | <20  | <100 | <20     | <5.0 |      |
| 12719-TB  | 9/20/2022  | <1.0    | <1.0    | <1.0         | <1.0    | <1.0        | <1.0  | <1.0    | NT     | <10  | <20   | <1.0 | <1.0 | <20  | <100    | <20  | <5.0 |

NOTES:

RBSL = Risk-Based Screening Level

Ball bearing indicates parameter exceeds SCDHEC RBSL's except 1,2-DCA which is based on EPA limit

ug/L = micrograms per liter

NT = Parameter was not tested during this event

J - Indicates an estimated value

(DXP) = Duplicate

FB = Field Blank

TB = Trip Blank

MTBE = Methyl tertiary butyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

TAME = tert-Amyl methyl ether

TBA = tert-Butyl Alcohol or t-Butanol

DIPE = Isopropyl ether or diisopropyl ether

ETBE = Ethyl tert-butyl ether

ETBA = 1,1-Dimethyl-1-butanol or ethyl tert-butanol

TAA = tert-amyl alcohol

TBF = tert-butyl formate

## **J. FIGURES**

### **1. Topographic Map**

Figure 1 Topographic Map - Attached

### **2. Site Base Map**

Figure 2 Site Base Map - Attached

### **3. CoC Site Maps**

Figure 3 Soil CoC Map - Not Applicable

Figure 4A Groundwater CoC Map - Attached

Figure 4B Groundwater CoC Map (Oxygenates) - Attached

### **4. Site Potentiometric Maps**

Figure 5 Site Potentiometric Map - Attached

### **5. Geologic Cross Sections**

Figure 6 Geologic Cross Sections - Not Applicable

### **6. Predicted Migration and Attenuation of CoCs**

Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable

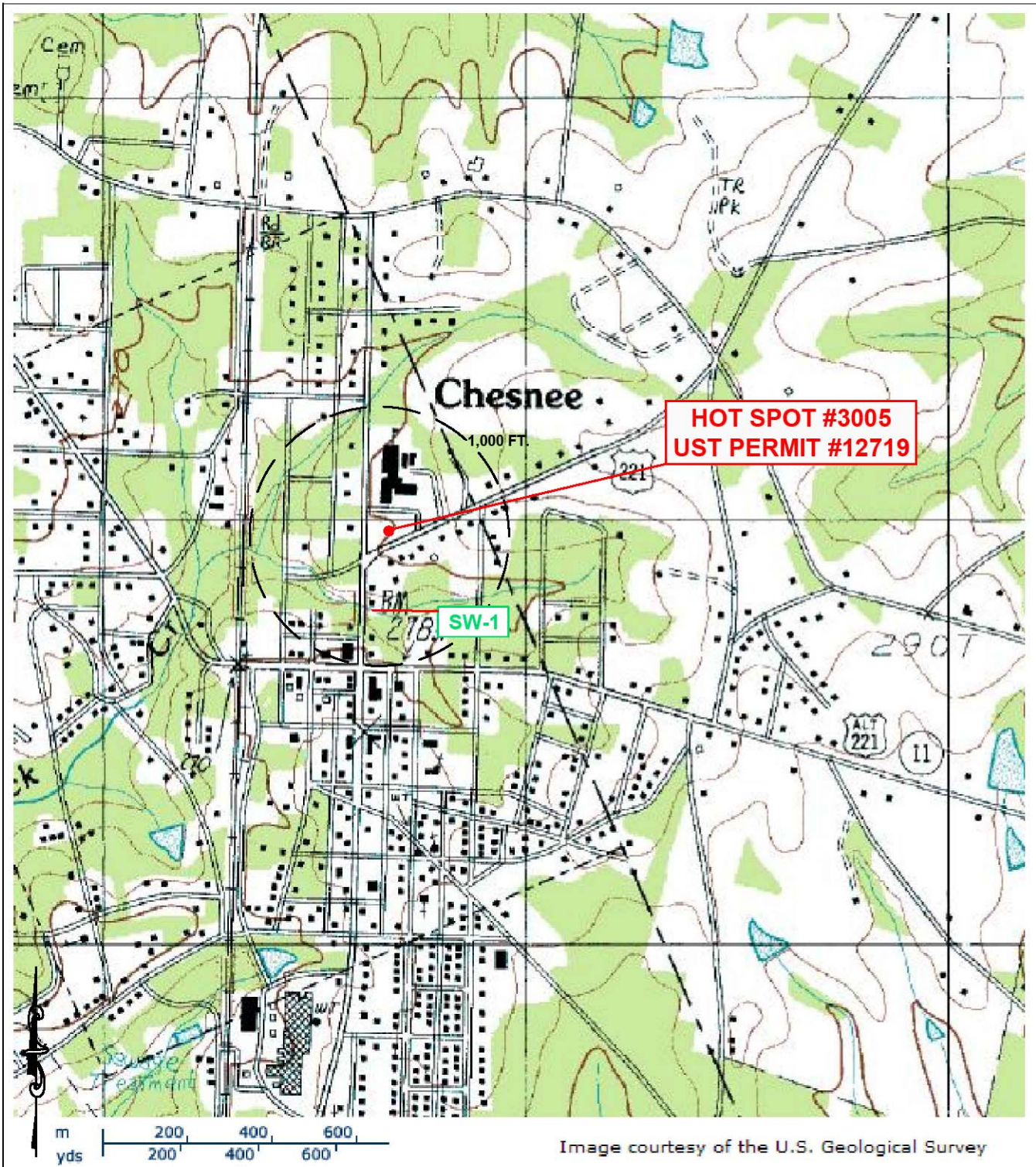


Image courtesy of the U.S. Geological Survey



## FIGURE 1 TOPOGRAPHIC MAP

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

*... providing our clients with the best services available,  
actually understanding our clients objectives,  
and making their objectives our own!*

SIZE  
B

TERRY Project No.  
2230.8P

DWG NO.

Figure 1 Topographic Map

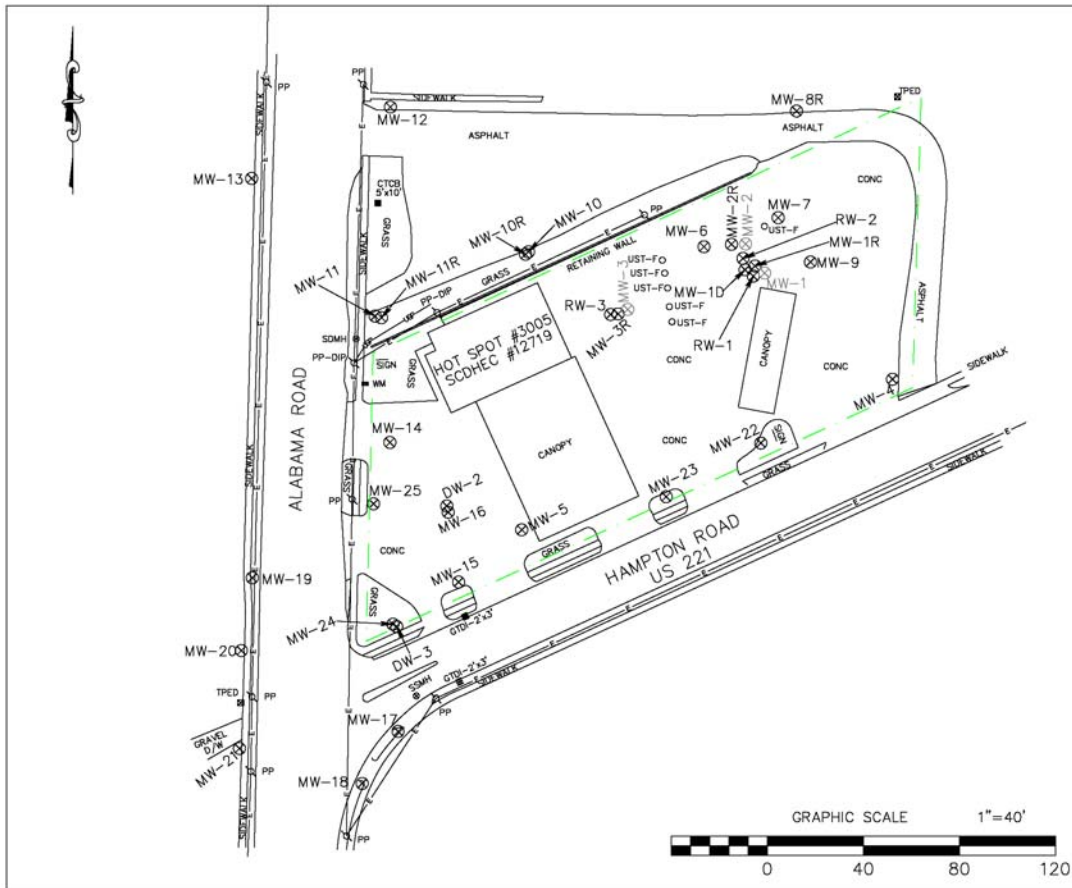
REV

PO Box 25  
Summerville, South Carolina 29484  
(800) 325-0605 (843)-873-8200 fax: (843)-873-8765

SCALE: As Shown

DATE: October 2022





**LEGEND & ABBREVIATIONS:**

- ⊗ MW = MONITORING WELL
  - ⊗ ABANDONED MONITORING WELL
  - ⊗ TPED = TELEPHONE PEDESTAL
  - ⊗ SDMH = STORM DRAIN MAN HOLE
  - ⊗ SSMH = SANITARY SEWER MAN HOLE
  - ⊗ WM = WATER METER
  - ⊗ PP = POWER POLE
  - ⊗ LP = LIGHT POLE
  - ⊗ GM = GAS METER
  - ⊗ GV = GAS VALVE
  - ⊗ USTF = UNDERGROUND STORAGE TANK FILL
  - GTCB = GRATE TOP CATCH BASIN
  - SIGN = SIGN
  - ⊗ KD = KEROSENE DISPENSER
  - E — = OVERHEAD POWER LINE
  - UFP — = UNDERGROUND POWER LINE
  - — — = APPROXIMATE PROPERTY LINE
- ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (i.e. 12719-MW 1)



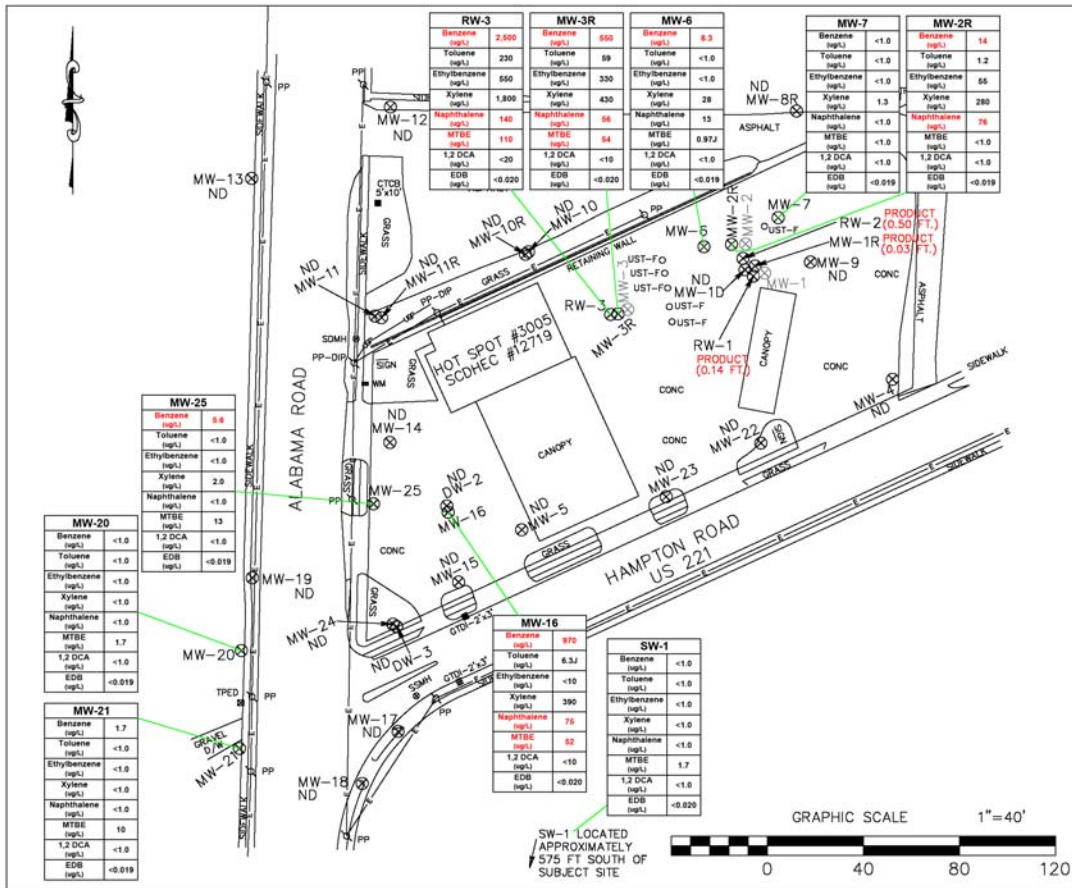
**FIGURE 2  
SITE BASE MAP**

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

|                 |                  |
|-----------------|------------------|
| TERRY PROJECT # | SCDHEC SITE ID # |
| 2230.8P         | 12719            |
| SCALE 1" = 40'  | DATE August 2022 |

GRAPHIC SCALE 1"=40'





**LEGEND & ABBREVIATIONS:**


- ⊗ MW = MONITORING WELL
- ⊘ ABANDONED MONITORING WELL
- ⊙ TPED = TELEPHONE PEDESTAL
- ⊗ SDMH = STORM DRAIN MAN HOLE
- ⊗ SSMH = SANITARY SEWER MAN HOLE
- ⊗ WM = WATER METER
- ⊗ PP = POWER POLE
- ⊗ LP = LIGHT POLE
- ⊗ GM = GAS METER
- ⊗ CV = GAS VALVE
- ⊗ USTF = UNDERGROUND STORAGE TANK FILL
- ⊗ GTCB = GRATE TOP CATCH BASIN
- ⊗ SIGN = SIGN
- ⊗ KD = KEROSENE DISPENSER
- ⊗ E = OVERHEAD POWER LINE
- ⊗ UFP = UNDERGROUND POWER LINE
- ⊗ MTBE = METHYL TERTIARY BUTYL ETHER
- ⊗ 1,2 DCA = 1,2-DICHLOROETHANE
- ⊗ J = ESTIMATED VALUE
- ⊗ NS = NOT SAMPLED

RED INDICATES CONTAMINANTS EXCEED RBLS

ND = LABORATORY ANALYSIS INDICATES ALL CoC AT OR BELOW DETECTION LIMITS

MONITORING WELL SAMPLES COLLECTED SEPTEMBER 19-20, 2022

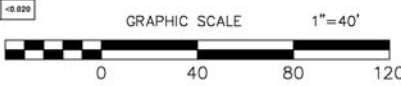
ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (i.e. 12719-MW 1)



**FIGURE 4A**  
**GROUNDWATER CoC MAP**

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

|                 |                   |
|-----------------|-------------------|
| TERRY PROJECT # | SCONEC SITE ID #  |
| 2230.8P         | 12719             |
| SCALE 1" = 40'  | DATE October 2022 |



SW-1 LOCATED APPROXIMATELY 575 FT SOUTH OF SUBJECT SITE

| MW-13          |      |
|----------------|------|
| TAME (ug/L)    | <10  |
| TBA (ug/L)     | <20  |
| DIPE (ug/L)    | <1.0 |
| ETBE (ug/L)    | <1.0 |
| ETBA (ug/L)    | <20  |
| Ethanol (ug/L) | 86J  |
| TAA (ug/L)     | <20  |
| TBF (ug/L)     | <5.0 |

| MW-25          |      |
|----------------|------|
| TAME (ug/L)    | 1.6J |
| TBA (ug/L)     | 8.2J |
| DIPE (ug/L)    | 6.2  |
| ETBE (ug/L)    | <1.0 |
| ETBA (ug/L)    | <20  |
| Ethanol (ug/L) | <100 |
| TAA (ug/L)     | 35   |
| TBF (ug/L)     | <5.0 |

| MW-21          |      |
|----------------|------|
| TAME (ug/L)    | <10  |
| TBA (ug/L)     | <20  |
| DIPE (ug/L)    | 1.2  |
| ETBE (ug/L)    | <1.0 |
| ETBA (ug/L)    | <20  |
| Ethanol (ug/L) | <100 |
| TAA (ug/L)     | 12J  |
| TBF (ug/L)     | <5.0 |

| RW-3           |        |
|----------------|--------|
| TAME (ug/L)    | 31J    |
| TBA (ug/L)     | 300J   |
| DIPE (ug/L)    | 250    |
| ETBE (ug/L)    | <20    |
| ETBA (ug/L)    | <400   |
| Ethanol (ug/L) | <2,000 |
| TAA (ug/L)     | 1,000  |
| TBF (ug/L)     | <100   |


| MW-3R          |        |
|----------------|--------|
| TAME (ug/L)    | 16J    |
| TBA (ug/L)     | 82J    |
| DIPE (ug/L)    | 120    |
| ETBE (ug/L)    | <10    |
| ETBA (ug/L)    | <200   |
| Ethanol (ug/L) | <1,000 |
| TAA (ug/L)     | 280    |
| TBF (ug/L)     | <50    |

| MW-6           |      |
|----------------|------|
| TAME (ug/L)    | <10  |
| TBA (ug/L)     | 88   |
| DIPE (ug/L)    | <1.0 |
| ETBE (ug/L)    | <1.0 |
| ETBA (ug/L)    | <20  |
| Ethanol (ug/L) | <100 |
| TAA (ug/L)     | 12J  |
| TBF (ug/L)     | <5.0 |

| MW-16          |        |
|----------------|--------|
| TAME (ug/L)    | <100   |
| TBA (ug/L)     | 89J    |
| DIPE (ug/L)    | 7.0J   |
| ETBE (ug/L)    | <10    |
| ETBA (ug/L)    | <200   |
| Ethanol (ug/L) | <1,000 |
| TAA (ug/L)     | 890    |
| TBF (ug/L)     | <50    |

| SW-1           |      |
|----------------|------|
| TAME (ug/L)    | <10  |
| TBA (ug/L)     | <20  |
| DIPE (ug/L)    | <1.0 |
| ETBE (ug/L)    | <1.0 |
| ETBA (ug/L)    | <20  |
| Ethanol (ug/L) | <100 |
| TAA (ug/L)     | 280  |
| TBF (ug/L)     | <5.0 |

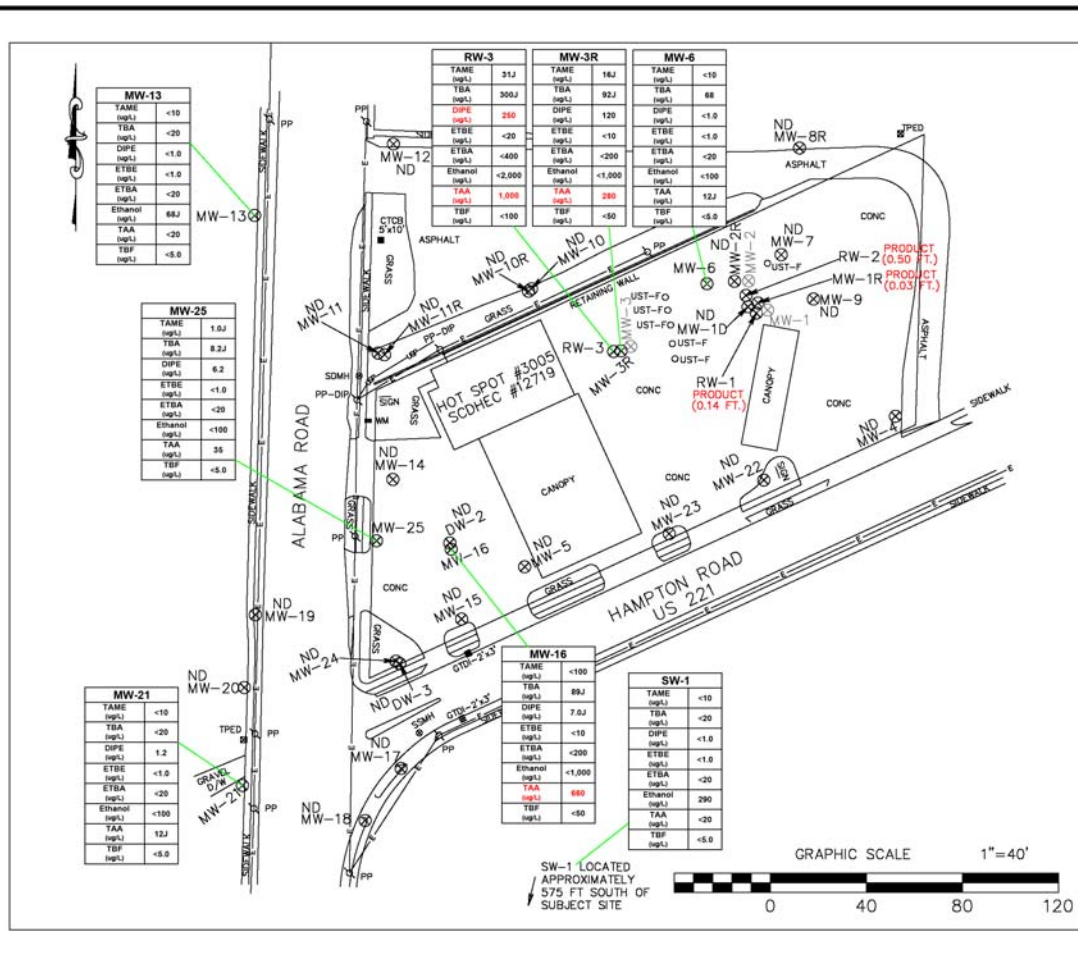
- LEGEND & ABBREVIATIONS:**
- ⊗ MW = MONITORING WELL
  - ⊗ ABANDONED MONITORING WELL
  - ⊗ TPED = TELEPHONE PEDESTAL
  - ⊗ SDMH = STORM DRAIN MAN HOLE
  - ⊗ SSMH = SANITARY SEWER MAN HOLE
  - ⊗ WM = WATER METER
  - ⊗ PP = POWER POLE
  - ⊗ LP = LIGHT POLE
  - ⊗ GM = GAS METER
  - ⊗ CV = GAS VALVE
  - ⊗ USTF = UNDERGROUND STORAGE TANK FILL
  - ⊗ GTCB = GRATE TOP CATCH BASIN
  - ⊗ SIGN = SIGN
  - ⊗ KD = KEROSENE DISPENSER
  - E — = OVERHEAD POWER LINE
  - UFP — = UNDERGROUND POWER LINE
  - TAME = TERT-AMYL METHYL ETHER
  - TBA = TERT-BUTYL ALCOHOL or T-BUTANOL
  - DIPE = ISOPROPYL ETHER or DIISOPROPYL ETHER
  - ETBE = ETHYL TERT-BUTYL ETHER
  - ETBA = 3,3-DIMETHYL-1-BUTANOL OR ETHYL-TERT-BUTANOL
  - TAA = TERT-AMYL ALCOHOL
  - TBF = TERT-BUTYL FORMATE
  - J = ESTIMATED VALUE
  - NS = NOT SAMPLED
  - RED INDICATES CONTAMINANTS EXCEED RBLS
  - ND = LABORATORY ANALYSIS INDICATES ALL COC AT OR BELOW DETECTION LIMITS
- MONITORING WELL SAMPLES COLLECTED SEPTEMBER 19-20, 2022
- ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (ie. 12719-MW 1)

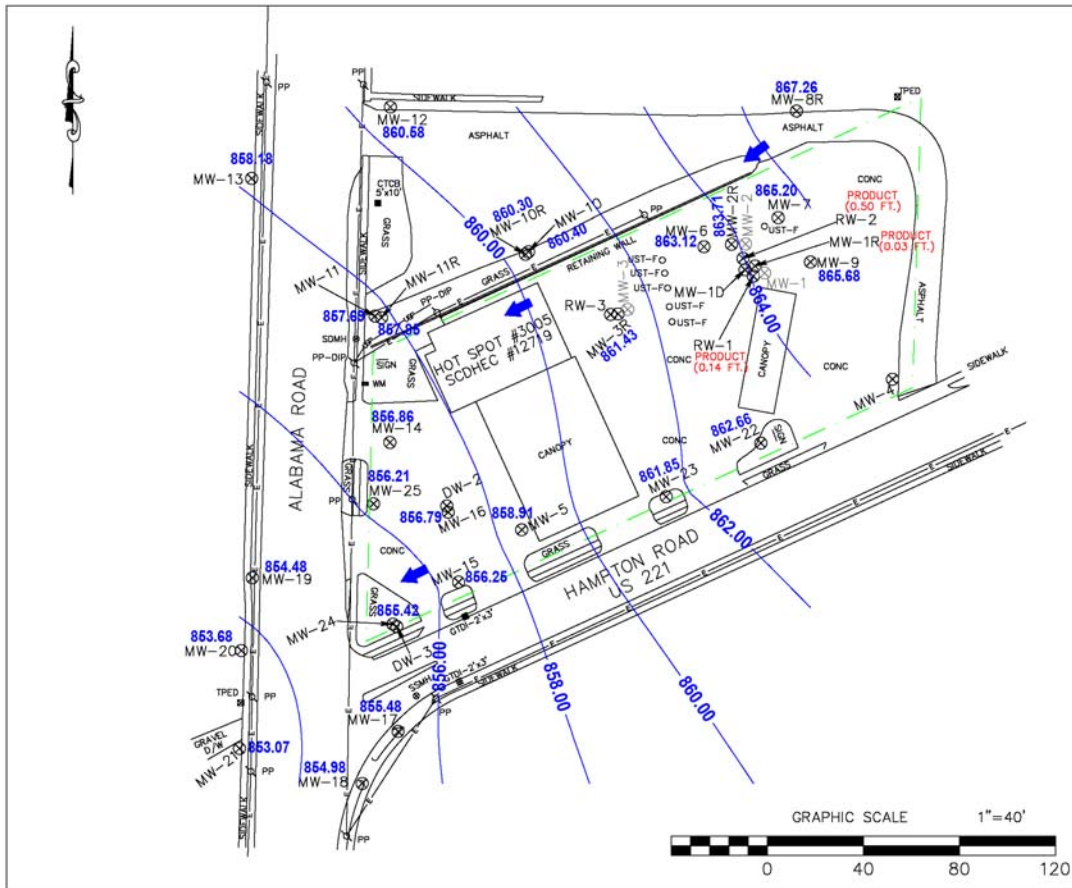


**FIGURE 4B**  
**GROUNDWATER COC MAP (OXYGENATES)**


HOT SPOT #3005  
 107 HAMPTON STREET  
 CHESNEE, SOUTH CAROLINA

|                 |                   |
|-----------------|-------------------|
| TERRY PROJECT # | SCOHEC SITE ID #  |
| 2230.8P         | 12719             |
| SCALE 1" = 40'  | DATE October 2022 |





- LEGEND & ABBREVIATIONS:**
- ⊗ MW = MONITORING WELL
  - ⊗ ABANDONED MONITORING WELL
  - ⊗ TPED = TELEPHONE PEDESTAL
  - ⊗ SDMH = STORM DRAIN MAN HOLE
  - ⊗ SSMH = SANITARY SEWER MAN HOLE
  - ⊗ WM = WATER METER
  - ⊗ PP = POWER POLE
  - ⊗ LP = LIGHT POLE
  - ⊗ GM = GAS METER
  - ⊗ GV = GAS VALVE
  - ⊗ USTF = UNDERGROUND STORAGE TANK FILL
  - ⊗ GTCB = GRATE TOP CATCH BASIN
  - ⊗ SIGN = SIGN
  - ⊗ KD = KEROSENE DISPENSER
  - E — = OVERHEAD POWER LINE
  - UFP — = UNDERGROUND POWER LINE
  - — — = APPROXIMATE PROPERTY LINE
  - 863.16 GROUNDWATER ELEVATION
  - 860.00 — PIEZOMETRIC CONTOUR (RELATIVE TO ASSUMED DATUM)
  - ➡ GROUNDWATER FLOW DIRECTION
- MEASUREMENTS COLLECTED ON SEPTEMBER 19-20, 2022
- ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #12719 (i.e. 12719-MW 1)

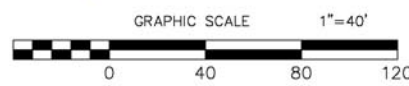


**TERRY ENVIRONMENTAL SERVICES**  
CLIENTS FIRST ALWAYS

**FIGURE 5  
SITE POTENTIOMETRIC MAP**

HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA

|                            |                           |
|----------------------------|---------------------------|
| TERRY PROJECT #<br>2230.8P | SCONEC SITE ID #<br>12719 |
| SCALE<br>1" = 40'          | DATE<br>October 2022      |



**K. APPENDICES**

**1. Appendix A: Site Survey**

Not Applicable

**2. Appendix B: Sampling Logs and Laboratory Data**

**3. Appendix C: Tax Map**

Not Applicable

**4. Appendix D: Soil Boring/Field Screening Logs**

Not Applicable

**5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms**

Not Applicable

**6. Appendix F: Aquifer Evaluation Forms**

Not Applicable

**7. Appendix G: Disposal Manifests**

**8. Appendix H: Local Zoning Regulations**

Not Applicable

**9. Appendix I: Fate and Transport Modeling Data**

Not Applicable

**10. Appendix J: Access Agreements**

Not Applicable

**11. Appendix K: Data Verification Checklist**


**APPENDIX A**

**Site Survey  
(Not Applicable)**

## **APPENDIX B**

### **Sampling Logs and Laboratory Data**

**Groundwater Sampling Log**

|   |               |  |                          |   |  |   |      |
|---|---------------|--|--------------------------|---|--|---|------|
|  |               | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |                          |   |  |   |      |
| <b>Site Specific Information</b>  |               |  |                          | <b>Monitoring Well Information</b>                |  |   |      |
| Terry Project ID  |               | 2230.8P  |                          | Well ID   |  | 12719 - <u>MW-1R</u>                                  |      |
| SCDHEC Permit No.   |               | 12719  |                          | Testing Parameters                                |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |      |
| Project Name  |               | Hot Spot #3005   |                          |   |  |   |      |
| Date  |               | <u>9/20/2022</u>                                       |                          |   |  |   |      |
| Field Personnel   |               | <u>LJ JP</u>   |                          | Well Diameter                                     |  | <u>2</u>  | in   |
| General Weather   |               | <u>clear</u>   |                          | Screened Interval                                 |  | <u>TD 36'</u>   | ft   |
| Ambient Air Temperature   |               | <u>85</u>  |                          | Total Well Depth (nearest 0.1')                   |  |   | ft   |
| <b>Quality Assurance</b>  |               |  |                          | Depth to Groundwater (nearest 0.01')              |  | <u>25.44</u>  | ft   |
| Meter   | Horiba U-52-2 | or   | Meter                    | Horiba U-52-2                                     | Length of Water Column   |   | ft   |
| Serial Number   | VPTGA3X       |  | Serial Number            | V3KNWUE9  | 1 Casing Volume (0.163)  |   | ft   |
| Calibration Constant  | 4.00 su       |  | Calibration Constant     | 4.00 su   | 3 Casing Volumes (0.489)   |   | gals |
| Calibration Constant  | 4.49 mS/cm    |  | Calibration Constant     | 4.49 mS/cm  | Total Volume Purged  |   | gals |
| Calibration Constant  | 0.0 NTU       |  | Calibration Constant     | 0.0 NTU   | Purge Technique Utilized (bailer, pump)  |   |      |
| Last Calibration (time)   |               |  | Last Verification (time) |   | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   |      |
| Volume (gal)  |               |  |                          |   |  |   |      |
| Time (military)   |               |  |                          |   |  |   |      |
| pH (su)   |               |  |                          |   |  |   |      |
| Spec Conductivity (mS/cm)   |               |  |                          |   |  |   |      |
| Water Temperature (°C)  |               |  |                          |   |  |   |      |
| Turbidity (NTU)   |               |  |                          |   |  |   |      |
| Dissolved Oxygen (mg/L)   |               |  |                          |   |  |   |      |
| <b>Well Condition Information</b>   |               |  |                          | <b>Additional Comments</b>                        |  |   |      |
| -overall condition acceptable?  |               |  |                          | FP, 25.41-25.44 golden freeproduct picture taken, |  |   |      |
| -well cap acceptable? <u>replaced</u>   |               |  |                          |   |  |   |      |
| -manhole and cover acceptable?  |               |  |                          |   |  |   |      |
| -well pad acceptable?   |               |  |                          |   |  |   |      |
| -area safe?   |               |  |                          |   |  |   |      |
| -other comments   |               |  |                          |   |  |   |      |



**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |                |    |                          | Monitoring Well Information          |   |                              |   |                               |
|--------------------------------|----------------|----|--------------------------|--------------------------------------|---|------------------------------|---|-------------------------------|
| Terry Project ID               | 2230.8P        |    |                          | Well ID                              | 12719 - MW-2R   |                              |   |                               |
| SCDHEC Permit No.              | 12719          |    |                          | Testing Parameters                   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |                              |   |                               |
| Project Name                   | Hot Spot #3005 |    |                          |                                      |   |                              |   |                               |
| Date                           | 9/20/2022      |    |                          |                                      |   |                              |   |                               |
| Field Personnel                | LJ JF          |    |                          | Well Diameter                        | 2   | in                           | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |                               |
| General Weather                | Clear          |    |                          | Screened Interval                    | 20-30   | ft                           |   |                               |
| Ambient Air Temperature        | 75             |    |                          | Total Well Depth (nearest 0.1')      | 30.2  | ft                           |   |                               |
| Quality Assurance              |                |    |                          | Depth to Groundwater (nearest 0.01') | 25.54   | ft                           |   |                               |
| Meter                          | Horiba U-52-2  | or | Meter                    | Horiba U-52-2                        | Length of Water Column                                | 4.66                         |   | ft                            |
| Serial Number                  | VPTPGA3X       |    | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                               |                              | ft  |                               |
| Calibration Constant           | 4.00 su        |    | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                              |                              | gals  |                               |
| Calibration Constant           | 4.49 mS/cm     |    | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                                   |                              | gals  |                               |
| Calibration Constant           | 0.0 NTU        |    | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)               |                              |   |                               |
| Last Calibration (time)        | 0815           |    | Last Verification (time) |                                      | Well Yield  | Low <input type="checkbox"/> | Medium <input type="checkbox"/>   | High <input type="checkbox"/> |
| Volume (gal)                   | inst           |    |                          |                                      |   |                              |   | 30.2                          |
| Time (military)                | 1125           |    |                          |                                      |   |                              |   |                               |
| pH (su)                        | 4.54           |    |                          |                                      |   |                              |   |                               |
| Spec Conductivity (mS/cm)      | 0.344          |    |                          |                                      |   |                              |   |                               |
| Water Temperature (°C)         | 22.7           |    |                          |                                      |   |                              |   |                               |
| Turbidity (NTU)                | 0.0            |    |                          |                                      |   |                              |   |                               |
| Dissolved Oxygen (mg/L)        | 6.39           |    |                          |                                      |   |                              |   |                               |
| Well Condition Information     |                |    |                          | Additional Comments                  |   |                              |   |                               |
| -overall condition acceptable? |                |    |                          |                                      |   |                              |   |                               |
| -well cap acceptable?          |                |    |                          |                                      |   |                              |   |                               |
| -manhole and cover acceptable? |                |    |                          |                                      |   |                              |   |                               |
| -well pad acceptable?          |                |    |                          |                                      |   |                              |   |                               |
| -area safe?                    |                |    |                          |                                      |   |                              |   |                               |
| -other comments                |                |    |                          |                                      |   |                              |   |                               |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |    |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|----|
| Terry Project ID               |               | 2230.8P        |                          | Well ID                              |   | 12719 - MW-3R   |    |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |    |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |    |
| Date                           |               | 9/20/2022      |                          | Well Diameter                        |   | 2   | in |
| Field Personnel                |               | LJ JF          |                          | Screened Interval                    |   | 26-36   | ft |
| General Weather                |               | clear          |                          | Total Well Depth (nearest 0.1')      |   | 36.3  | ft |
| Ambient Air Temperature        |               | 85             |                          | Depth to Groundwater (nearest 0.01') |   | 28.82   | ft |
| Quality Assurance              |               |                |                          | Length of Water Column               |   |   |    |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | 1 Casing Volume (0.163)   |   |    |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 3 Casing Volumes (0.489)  |   |    |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | Total Volume Purged   |   |    |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Purge Technique Utilized (bailer, pump)   |   |    |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Well Yield Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   |    |
| Last Calibration (time)        | 0815          |                | Last Verification (time) | 1215                                 | 36.3  |   |    |
| Volume (gal)                   | initial       |                |                          |                                      |   |   |    |
| Time (military)                | 1426          |                |                          |                                      |   |   |    |
| pH (su)                        | 5.30          |                |                          |                                      |   |   |    |
| Spec Conductivity (mS/cm)      | 0.326         |                |                          |                                      |   |   |    |
| Water Temperature (°C)         | 26.6          |                |                          |                                      |   |   |    |
| Turbidity (NTU)                | 0.9           |                |                          |                                      |   |   |    |
| Dissolved Oxygen (mg/L)        | 5.04          |                |                          |                                      |   |   |    |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |    |
| -overall condition acceptable? |               |                |                          | strong petrol odor                   |   |   |    |
| -well cap acceptable?          |               |                |                          |                                      |   |   |    |
| -manhole and cover acceptable? |               |                |                          | full of water and sediment           |   |   |    |
| -well pad acceptable?          |               |                |                          |                                      |   |   |    |
| -area safe?                    |               |                |                          |                                      |   |   |    |
| -other comments                |               |                |                          |                                      |   |   |    |

**Groundwater Sampling Log**




**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS


P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |         |                |       |                          | Monitoring Well Information          |               |   |   |   |                         |                          |        |                                     |      |                          |      |
|--------------------------------|---------|----------------|-------|--------------------------|--------------------------------------|---------------|---|---|---|-------------------------|--------------------------|--------|-------------------------------------|------|--------------------------|------|
| Terry Project ID               |         | 2230.8P        |       |                          | Well ID                              |               | 12719 - MW-4  |   |   |                         |                          |        |                                     |      |                          |      |
| SCDHEC Permit No.              |         | 12719          |       |                          | Testing Parameters                   |               | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |   |   |                         |                          |        |                                     |      |                          |      |
| Project Name                   |         | Hot Spot #3005 |       |                          |                                      |               |   |   |   |                         |                          |        |                                     |      |                          |      |
| Date                           |         | 9/19/2022      |       |                          |                                      |               |   |   |   |                         |                          |        |                                     |      |                          |      |
| Field Personnel                |         | LJ JF          |       |                          | Well Diameter                        |               | 2   | in                                      | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |                         |                          |        |                                     |      |                          |      |
| General Weather                |         | clear          |       |                          | Screened Interval                    |               | 36-46   | ft                                      |   |                         |                          |        |                                     |      |                          |      |
| Ambient Air Temperature        |         | 85             |       |                          | Total Well Depth (nearest 0.1')      |               | 45.7  | ft                                      |   |                         |                          |        |                                     |      |                          |      |
| Quality Assurance              |         |                |       |                          | Depth to Groundwater (nearest 0.01') |               | 24.78   | ft                                      |   |                         |                          |        |                                     |      |                          |      |
| Meter                          |         | Horiba U-52-2  |       | Meter                    |                                      | Horiba U-52-2 |   | Length of Water Column                  |   | 20.92                   | ft                       |        |                                     |      |                          |      |
| Serial Number                  |         | VPTPGA3X       |       | or                       |                                      | Serial Number |   | V3KNWUE9                                |   | 1 Casing Volume (0.163) |                          | 3.41   | ft                                  |      |                          |      |
| Calibration Constant           |         | 4.00 su        |       | Calibration Constant     |                                      | 4.00 su       |   | 3 Casing Volumes (0.489)                |   | 10.23                   |                          | gals   |                                     |      |                          |      |
| Calibration Constant           |         | 4.49 mS/cm     |       | Calibration Constant     |                                      | 4.49 mS/cm    |   | Total Volume Purged                     |   | 10.5                    |                          | gals   |                                     |      |                          |      |
| Calibration Constant           |         | 0.0 NTU        |       | Calibration Constant     |                                      | 0.0 NTU       |   | Purge Technique Utilized (bailer, pump) |   |                         |                          |        |                                     |      |                          |      |
| Last Calibration (time)        |         | 1230           |       | Last Verification (time) |                                      |               |   | Well Yield                              |   | Low                     | <input type="checkbox"/> | Medium | <input checked="" type="checkbox"/> | High | <input type="checkbox"/> | 45.7 |
| Volume (gal)                   | Initial | 3.5            | 7     | 10.5                     |                                      |               |   |   |   |                         |                          |        |                                     |      |                          |      |
| Time (military)                | 1453    | 1500           | 1507  | 1515                     |                                      |               |   |   |   |                         |                          |        |                                     |      |                          |      |
| pH (su)                        | 6.42    | 6.64           | 6.67  | 6.70                     |                                      |               |   |   |   |                         |                          |        |                                     |      |                          |      |
| Spec Conductivity (mS/cm)      | 0.105   | 0.183          | 0.190 | 0.191                    |                                      |               |   |   |   |                         |                          |        |                                     |      |                          |      |
| Water Temperature (°C)         | 23.8    | 22.3           | 21.4  | 21.1                     |                                      |               |   |   |   |                         |                          |        |                                     |      |                          |      |
| Turbidity (NTU)                | 0.0     | 0.0            | 0.0   | 0.0                      |                                      |               |   |   |   |                         |                          |        |                                     |      |                          |      |
| Dissolved Oxygen (mg/L)        | 6.02    | 2.59           | 2.49  | 2.39                     |                                      |               |   |   |   |                         |                          |        |                                     |      |                          |      |
| Well Condition Information     |         |                |       |                          | Additional Comments                  |               |   |   |   |                         |                          |        |                                     |      |                          |      |
| -overall condition acceptable? |         |                |       |                          |                                      |               |   |   |   |                         |                          |        |                                     |      |                          |      |
| -well cap acceptable?          |         |                |       |                          |                                      |               |   |   |   |                         |                          |        |                                     |      |                          |      |
| -manhole and cover acceptable? |         |                |       |                          |                                      |               |   |   |   |                         |                          |        |                                     |      |                          |      |
| -well pad acceptable?          |         |                |       |                          |                                      |               |   |   |   |                         |                          |        |                                     |      |                          |      |
| -area safe?                    |         |                |       |                          |                                      |               |   |   |   |                         |                          |        |                                     |      |                          |      |
| -other comments                |         |                |       |                          |                                      |               |   |   |   |                         |                          |        |                                     |      |                          |      |

**Groundwater Sampling Log**

|  |               |                |                          |  |   |   |        |                          |
|--|---------------|----------------|--------------------------|--|---|---|--------|--------------------------|
|  |               |                |                          | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |   |   |        |                          |
| <b>Site Specific Information</b>   |               |                |                          | <b>Monitoring Well Information</b>                     |   |   |        |                          |
| Terry Project ID   |               | 2230.8P        |                          | Well ID  |   | 12719 - MW-5  |        |                          |
| SCDHEC Permit No.  |               | 12719          |                          | Testing Parameters                                     |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |        |                          |
| Project Name   |               | Hot Spot #3005 |                          |  |   |   |        |                          |
| Date   |               | 9/10/2022      |                          |  |   |   |        |                          |
| Field Personnel  |               | LJ JF          |                          | Well Diameter  |   | 2   | in     |                          |
| General Weather  |               | clear          |                          | Screened Interval                                      |   | 22-32   | ft     |                          |
| Ambient Air Temperature  |               | 85             |                          | Total Well Depth (nearest 0.1')                        |   | 32.3  | ft     |                          |
| <b>Quality Assurance</b>   |               |                |                          | Depth to Groundwater (nearest 0.01')                   |   | 30.06   | ft     |                          |
| Meter  | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2  | Length of Water Column                  |   | 2.24   | ft                       |
| Serial Number  | VPTPGA3X      |                | Serial Number            | V3KNWUE9   | 1 Casing Volume (0.163)                 |   |        | ft                       |
| Calibration Constant   | 4.00 su       |                | Calibration Constant     | 4.00 su  | 3 Casing Volumes (0.489)                |   |        | gals                     |
| Calibration Constant   | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm   | Total Volume Purged                     |   |        | gals                     |
| Calibration Constant   | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU  | Purge Technique Utilized (bailer, pump) |   |        |                          |
| Last Calibration (time)  | 0815          |                | Last Verification (time) | 1215   | Well Yield                              |   |        | 32.3                     |
|  |               |                |                          |  | Low                                     | <input type="checkbox"/>                              | Medium | <input type="checkbox"/> |
|  |               |                |                          |  | High                                    | <input type="checkbox"/>                              |        |                          |
| Volume (gal)   | initial       |                |                          |  |   |   |        |                          |
| Time (military)  | 1358          |                |                          |  |   |   |        |                          |
| pH (su)  | 5.01          |                |                          |  |   |   |        |                          |
| Spec Conductivity (mS/cm)  | 0094          |                |                          |  |   |   |        |                          |
| Water Temperature (°C)   | 26.0          |                |                          |  |   |   |        |                          |
| Turbidity (NTU)  | 065.0         |                |                          |  |   |   |        |                          |
| Dissolved Oxygen (mg/L)  | 2.18          |                |                          |  |   |   |        |                          |
| <b>Well Condition Information</b>  |               |                |                          | <b>Additional Comments</b>                             |   |   |        |                          |
| -overall condition acceptable?   |               |                |                          |  |   |   |        |                          |
| -well cap acceptable?  |               |                |                          |  |   |   |        |                          |
| -manhole and cover acceptable?   |               |                |                          |  |   |   |        |                          |
| -well pad acceptable?  |               |                |                          |  |   |   |        |                          |
| -area safe?  |               |                |                          |  |   |   |        |                          |
| -other comments  |               |                |                          |  |   |   |        |                          |

**Groundwater Sampling Log**

|   |               |                          |               |  |                          |   |                          |   |                          |             |                          |
|---|---------------|--------------------------|---------------|--|--------------------------|---|--------------------------|---|--------------------------|-------------|--------------------------|
|  <b>TERRY Environmental Services</b><br><small>CLIENTS FIRST ALWAYS</small> |               |                          |               | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |                          |   |                          |   |                          |             |                          |
|   |               |                          |               | <p align="center"><b>Site Specific Information</b></p> |                          |   |                          | <p align="center"><b>Monitoring Well Information</b></p>  |                          |             |                          |
| Terry Project ID  |               | 2230.8P                  |               | Well ID  |                          | 12719 - <u>MW-6</u>                                   |                          |   |                          |             |                          |
| SCDHEC Permit No.   |               | 12719                    |               | Testing Parameters                                     |                          | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |                          |   |                          |             |                          |
| Project Name  |               | Hot Spot #3005           |               |  |                          |   |                          |   |                          |             |                          |
| Date  |               | 9/20/2022                |               |  |                          |   |                          |   |                          |             |                          |
| Field Personnel   |               | <u>LJ JF</u>             |               | Well Diameter  |                          | <u>2</u>  | in                       | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |                          |             |                          |
| General Weather   |               | <u>clear</u>             |               | Screened Interval                                      |                          | <u>26.36</u>  | ft                       |   |                          |             |                          |
| Ambient Air Temperature   |               | <u>85</u>                |               | Total Well Depth (nearest 0.1')                        |                          | <u>36.0</u>   | ft                       |   |                          |             |                          |
| <p align="center"><b>Quality Assurance</b></p>  |               |                          |               | Depth to Groundwater (nearest 0.01')                   |                          | <u>26.02</u>  | ft                       |   |                          |             |                          |
|   |               |                          |               | Length of Water Column                                 |                          | <u>9.98</u>   | ft                       |   |                          |             |                          |
| Meter   | Horiba U-52-2 | or                       | Meter         | Horiba U-52-2  | 1 Casing Volume (0.163)  |   | ft                       |   |                          |             |                          |
| Serial Number   | VPTGA3X       |                          | Serial Number | V3KNWUE9   | 3 Casing Volumes (0.489) |   | gals                     |   |                          |             |                          |
| Calibration Constant  | 4.00 su       | Calibration Constant     | 4.00 su       | Total Volume Purged                                    |                          | gals  |                          |   |                          |             |                          |
| Calibration Constant  | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Purge Technique Utilized (bailer, pump)                |                          |   |                          |   |                          |             |                          |
| Calibration Constant  | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Well Yield   |                          | Low   | <input type="checkbox"/> | Medium  | <input type="checkbox"/> | High        | <input type="checkbox"/> |
| Last Calibration (time)   | <u>0815</u>   | Last Verification (time) | <u>1215</u>   |  |                          |   |                          |   |                          | <u>36.0</u> |                          |
| Volume (gal)  | <u>instal</u> |                          |               |  |                          |   |                          |   |                          |             |                          |
| Time (military)   | <u>1250</u>   |                          |               |  |                          |   |                          |   |                          |             |                          |
| pH (su)   | <u>4.74</u>   |                          |               |  |                          |   |                          |   |                          |             |                          |
| Spec Conductivity (mS/cm)   | <u>0.273</u>  |                          |               |  |                          |   |                          |   |                          |             |                          |
| Water Temperature (°C)  | <u>27.5</u>   |                          |               |  |                          |   |                          |   |                          |             |                          |
| Turbidity (NTU)   | <u>2.0</u>    |                          |               |  |                          |   |                          |   |                          |             |                          |
| Dissolved Oxygen (mg/L)   | <u>5.26</u>   |                          |               |  |                          |   |                          |   |                          |             |                          |
| <p align="center"><b>Well Condition Information</b></p>   |               |                          |               |  |                          | <p align="center"><b>Additional Comments</b></p>      |                          |   |                          |             |                          |
| -overall condition acceptable?  |               |                          |               |  |                          |   |                          |   |                          |             |                          |
| -well cap acceptable?   |               |                          |               |  |                          |   |                          |   |                          |             |                          |
| -manhole and cover acceptable?  |               |                          |               |  |                          |   |                          |   |                          |             |                          |
| -well pad acceptable?   |               |                          |               |  |                          |   |                          |   |                          |             |                          |
| -area safe?   |               |                          |               |  |                          |   |                          |   |                          |             |                          |
| -other comments   |               |                          |               |  |                          |   |                          |   |                          |             |                          |

**Groundwater Sampling Log**




**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |                |       |                          | Monitoring Well Information          |   |                              |   |                               |
|--------------------------------|----------------|-------|--------------------------|--------------------------------------|---|------------------------------|---|-------------------------------|
| Terry Project ID               | 2230.8P        |       |                          | Well ID                              | 12719 - MW-7  |                              |   |                               |
| SCDHEC Permit No.              | 12719          |       |                          | Testing Parameters                   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |                              |   |                               |
| Project Name                   | Hot Spot #3005 |       |                          |                                      |   |                              |   |                               |
| Date                           | 9/20/2022      |       |                          |                                      |   |                              |   |                               |
| Field Personnel                | LJ JF          |       |                          | Well Diameter                        | 2   | in                           | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |                               |
| General Weather                | clear          |       |                          | Screened Interval                    | 26-36   | ft                           |   |                               |
| Ambient Air Temperature        | 75             |       |                          | Total Well Depth (nearest 0.1')      | 36.2  | ft                           |   |                               |
| Quality Assurance              |                |       |                          | Depth to Groundwater (nearest 0.01') | 24.32   | ft                           |   |                               |
| Meter                          | Horiba U-52-2  | or    | Meter                    | Horiba U-52-2                        | Length of Water Column                                | 11.88                        |   | ft                            |
| Serial Number                  | VPTPGA3X       |       | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                               | 1.94                         | ft  |                               |
| Calibration Constant           | 4.00 su        |       | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                              | 5.81                         | gals  |                               |
| Calibration Constant           | 4.49 mS/cm     |       | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                                   | 8                            | gals  |                               |
| Calibration Constant           | 0.0 NTU        |       | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailey/pump)                | Bailey                       |   |                               |
| Last Calibration (time)        | 0815           |       | Last Verification (time) |                                      | Well Yield  | Low <input type="checkbox"/> | Medium <input checked="" type="checkbox"/>  | High <input type="checkbox"/> |
| Volume (gal)                   | initial        | 2     | 4                        | 6                                    | 8   |                              |   | 36.2                          |
| Time (military)                | 1104           | 1110  | 1120                     | 1127                                 | 1133  |                              |   |                               |
| pH (su)                        | 4.96           | 4.54  | 4.96                     | 4.42                                 | 4.43  |                              |   |                               |
| Spec Conductivity (mS/cm)      | 0.079          | 0.074 | 0.066                    | 0.063                                | 0.065   |                              |   |                               |
| Water Temperature (°C)         | 23.4           | 23.5  | 23.0                     | 23.0                                 | 22.3  |                              |   |                               |
| Turbidity (NTU)                | 0.0            | 8.7   | 18.5                     | 17.4                                 | 17.2  |                              |   |                               |
| Dissolved Oxygen (mg/L)        | 6.77           | 7.17  | 7.05                     | 6.88                                 | 6.87  |                              |   |                               |
| Well Condition Information     |                |       |                          | Additional Comments                  |   |                              |   |                               |
| -overall condition acceptable? |                |       |                          |                                      |   |                              |   |                               |
| -well cap acceptable?          |                |       |                          |                                      |   |                              |   |                               |
| -manhole and cover acceptable? |                |       |                          |                                      |   |                              |   |                               |
| -well pad acceptable?          |                |       |                          |                                      |   |                              |   |                               |
| -area safe?                    |                |       |                          |                                      |   |                              |   |                               |
| -other comments                |                |       |                          |                                      |   |                              |   |                               |

**Groundwater Sampling Log**

|   |               |                |                          |  |  |   |      |   |  |
|---|---------------|----------------|--------------------------|--|--|---|------|---|--|
|  |               |                |                          | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |  |   |      |   |  |
|   |               |                |                          | <p align="center"><b>Site Specific Information</b></p> |  |   |      | <p align="center"><b>Monitoring Well Information</b></p>  |  |
| Terry Project ID  |               | 2230.8P        |                          | Well ID  |  | 12719 - <u>MW-8R</u>                                  |      |   |  |
| SCDHEC Permit No.   |               | 12719          |                          | Testing Parameters                                     |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |      |   |  |
| Project Name  |               | Hot Spot #3005 |                          |  |  |   |      |   |  |
| Date  |               | 9/19/2022      |                          | Well Diameter  |  | 2   |      | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |  |
| Field Personnel   |               | LJ JF          |                          | Screened Interval                                      |  | 20.30   |      |   |  |
| General Weather   |               | clear          |                          | Total Well Depth (nearest 0.1')                        |  | 30.8  |      |   |  |
| Ambient Air Temperature   |               | 85             |                          | Depth to Groundwater (nearest 0.01')                   |  | 20.75   |      |   |  |
| <b>Quality Assurance</b>  |               |                |                          | Length of Water Column                                 |  | 9.95  |      |   |  |
| Meter   | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2  | 1 Casing Volume (0.163)  |   | ft   |   |  |
| Serial Number   | VPTPGA3X      |                | Serial Number            | V3KNWUE9   | 3 Casing Volumes (0.489)   |   | gals |   |  |
| Calibration Constant  | 4.00 su       |                | Calibration Constant     | 4.00 su  | Total Volume Purged  |   | gals |   |  |
| Calibration Constant  | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm   | Purge Technique Utilized (bailer, pump)  |   |      |   |  |
| Calibration Constant  | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU  | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   |      |   |  |
| Last Calibration (time)   | 1230          |                | Last Verification (time) |  | 30.7   |   |      |   |  |
| Volume (gal)  | initial       |                |                          |  |  |   |      |   |  |
| Time (military)   | 1440          |                |                          |  |  |   |      |   |  |
| pH (su)   | 4.69          |                |                          |  |  |   |      |   |  |
| Spec Conductivity (mS/cm)   | 0.024         |                |                          |  |  |   |      |   |  |
| Water Temperature (°C)  | 23.1          |                |                          |  |  |   |      |   |  |
| Turbidity (NTU)   | 49.9          |                |                          |  |  |   |      |   |  |
| Dissolved Oxygen (mg/L)   | 8.01          |                |                          |  |  |   |      |   |  |
| <b>Well Condition Information</b>   |               |                |                          |  | <b>Additional Comments</b>   |   |      |   |  |
| -overall condition acceptable?  |               |                |                          |  |  |   |      |   |  |
| -well cap acceptable?   |               |                |                          |  |  |   |      |   |  |
| -manhole and cover acceptable?  |               |                |                          |  |  |   |      |   |  |
| -well pad acceptable?   |               |                |                          |  |  |   |      |   |  |
| -area safe?   |               |                |                          |  |  |   |      |   |  |
| -other comments   |               |                |                          |  |  |   |      |   |  |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |                |       |                          | Monitoring Well Information          |   |   |   |
|--------------------------------|----------------|-------|--------------------------|--------------------------------------|---|---|---|
| Terry Project ID               | 2230.8P        |       |                          | Well ID                              | 12719 - MW-9  |   |   |
| SCDHEC Permit No.              | 12719          |       |                          | Testing Parameters                   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |   |   |
| Project Name                   | Hot Spot #3005 |       |                          |                                      |   |   |   |
| Date                           | 9/20/2022      |       |                          |                                      |   |   |   |
| Field Personnel                | LJ JF          |       |                          | Well Diameter                        | 2   | in  | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| General Weather                | clear          |       |                          | Screened Interval                    | unknown   | ft  |   |
| Ambient Air Temperature        | 75             |       |                          | Total Well Depth (nearest 0.1')      | 35.3  | ft  |   |
| Quality Assurance              |                |       |                          | Depth to Groundwater (nearest 0.01') | 24.73   | ft  |   |
| Meter                          | Horiba U-52-2  | or    | Meter                    | Horiba U-52-2                        | Length of Water Column                                | 10.57   |   |
| Serial Number                  | VPTPGA3X       |       | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                               | 1.72  | ft  |
| Calibration Constant           | 4.00 su        |       | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                              | 5.17  | gals  |
| Calibration Constant           | 4.49 mS/cm     |       | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                                   | 5.25  | gals  |
| Calibration Constant           | 0.0 NTU        |       | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer) pump                |   |   |
| Last Calibration (time)        | 0815           |       | Last Verification (time) |                                      | Well Yield  | Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High <input type="checkbox"/> | 35.3  |
| Volume (gal)                   | initial        | 1.75  | 3.5                      | 5.25                                 |   |   |   |
| Time (military)                | 1030           | 1036  | 1040                     | 1051                                 |   |   |   |
| pH (su)                        | 4.93           | 4.96  | 4.98                     | 5.05                                 |   |   |   |
| Spec Conductivity (mS/cm)      | 0.038          | 0.042 | 0.042                    | 0.043                                |   |   |   |
| Water Temperature (°C)         | 22.8           | 22.4  | 22.0                     | 21.8                                 |   |   |   |
| Turbidity (NTU)                | 138            | 261   | 257                      | 249                                  |   |   |   |
| Dissolved Oxygen (mg/L)        | 7.50           | 5.32  | 5.24                     | 5.15                                 |   |   |   |
| Well Condition Information     |                |       |                          | Additional Comments                  |   |   |   |
| -overall condition acceptable? |                |       |                          |                                      |   |   |   |
| -well cap acceptable?          |                |       |                          | replaced                             |   |   |   |
| -manhole and cover acceptable? |                |       |                          | full of water                        |   |   |   |
| -well pad acceptable?          |                |       |                          |                                      |   |   |   |
| -area safe?                    |                |       |                          |                                      |   |   |   |
| -other comments                |                |       |                          |                                      |   |   |   |



**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |   |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|---|
| Terry Project ID               |               | 2230.8P        |                          | Well ID                              |   | 12719 - MW-10   |   |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |   |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |   |
| Date                           |               | 9/19/2022      |                          |                                      |   |   |   |
| Field Personnel                |               | LJ, JF         |                          | Well Diameter                        |   | 2   | in  |
| General Weather                |               | clear          |                          | Screened Interval                    |   | 17-27   | ft  |
| Ambient Air Temperature        |               | 80             |                          | Total Well Depth (nearest 0.1')      |   | 27.3  | ft  |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   |   |   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |   | 6.10  |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   | ft  |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   | gals  |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   | gals  |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |   |
| Last Calibration (time)        | 1230          |                | Last Verification (time) |                                      | Well Yield                              |   | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/>      |
| Volume (gal)                   | initial       |                |                          |                                      |   |   | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| Time (military)                | 1256          |                |                          |                                      |   |   |   |
| pH (su)                        | 4.68          |                |                          |                                      |   |   |   |
| Spec Conductivity (mS/cm)      | 0.052         |                |                          |                                      |   |   |   |
| Water Temperature (°C)         | 22.1          |                |                          |                                      |   |   |   |
| Turbidity (NTU)                | 0.0           |                |                          |                                      |   |   |   |
| Dissolved Oxygen (mg/L)        | 8.04          |                |                          |                                      |   |   |   |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |   |
| -overall condition acceptable? |               |                |                          |                                      |   |   |   |
| -well cap acceptable?          |               |                |                          |                                      |   |   |   |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |   |
| -well pad acceptable?          |               |                |                          |                                      |   |   |   |
| -area safe?                    |               |                |                          |                                      |   |   |   |
| -other comments                |               |                |                          |                                      |   |   |   |

**Groundwater Sampling Log**




**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |         |                |       |                          | Monitoring Well Information          |               |   |   |  |   |      |
|--------------------------------|---------|----------------|-------|--------------------------|--------------------------------------|---------------|---|---|--|---|------|
| Terry Project ID               |         | 2230.8P        |       |                          | Well ID                              |               | 12719 - <u>MW-10R</u>                                 |   |  |   |      |
| SCDHEC Permit No.              |         | 12719          |       |                          | Testing Parameters                   |               | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |   |  |   |      |
| Project Name                   |         | Hot Spot #3005 |       |                          |                                      |               |   |   |  |   |      |
| Date                           |         | 9/19/2022      |       |                          |                                      |               |   |   |  |   |      |
| Field Personnel                |         | LJ JF          |       |                          | Well Diameter                        |               | 2   | in                                      | TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1' |   |      |
| General Weather                |         | clear          |       |                          | Screened Interval                    |               | 2232  | ft                                      |  |   |      |
| Ambient Air Temperature        |         | 80             |       |                          | Total Well Depth (nearest 0.1')      |               | 32.1  | ft                                      |  |   |      |
| Quality Assurance              |         |                |       |                          | Depth to Groundwater (nearest 0.01') |               | 21.47   | ft                                      |  |   |      |
| Meter                          |         | Horiba U-52-2  |       | Meter                    |                                      | Horiba U-52-2 |   | Length of Water Column                  |  | 10.63   | ft   |
| Serial Number                  |         | VPTGA3X        |       | Serial Number            |                                      | V3KNWUE9      |   | 1 Casing Volume (0.163)                 |  | 1.73  | ft   |
| Calibration Constant           |         | 4.00 su        |       | Calibration Constant     |                                      | 4.00 su       |   | 3 Casing Volumes (0.489)                |  | 5.20  | gals |
| Calibration Constant           |         | 4.49 mS/cm     |       | Calibration Constant     |                                      | 4.49 mS/cm    |   | Total Volume Purged                     |  | 7   | gals |
| Calibration Constant           |         | 0.0 NTU        |       | Calibration Constant     |                                      | 0.0 NTU       |   | Purge Technique Utilized (bailey, pump) |  |   |      |
| Last Calibration (time)        |         | 1230           |       | Last Verification (time) |                                      |               |   | Well Yield                              |  | Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High <input type="checkbox"/> | 32.1 |
| Volume (gal)                   | Initial | 1.75           | 3.5   | 5.25                     | 7                                    |               |   |   |  |   |      |
| Time (military)                | 1314    | 1317           | 1321  | 1325                     | 1330                                 |               |   |   |  |   |      |
| pH (su)                        | 5.02    | 4.95           | 4.80  | 4.75                     | 4.80                                 |               |   |   |  |   |      |
| Spec Conductivity (mS/cm)      | 0.056   | 0.052          | 0.050 | 0.050                    | 0.048                                |               |   |   |  |   |      |
| Water Temperature (°C)         | 22.0    | 21.9           | 21.5  | 21.3                     | 21.1                                 |               |   |   |  |   |      |
| Turbidity (NTU)                | 0.0     | 2.11           | 2.20  | 2.21                     | 70.0                                 |               |   |   |  |   |      |
| Dissolved Oxygen (mg/L)        | 3.30    | 4.89           | 3.43  | 3.44                     | 3.50                                 |               |   |   |  |   |      |
| Well Condition Information     |         |                |       |                          | Additional Comments                  |               |   |   |  |   |      |
| -overall condition acceptable? |         |                |       |                          |                                      |               |   |   |  |   |      |
| -well cap acceptable?          |         |                |       |                          |                                      |               |   |   |  |   |      |
| -manhole and cover acceptable? |         |                |       |                          |                                      |               |   |   |  |   |      |
| -well pad acceptable?          |         |                |       |                          |                                      |               |   |   |  |   |      |
| -area safe?                    |         |                |       |                          |                                      |               |   |   |  |   |      |
| -other comments                |         |                |       |                          |                                      |               |   |   |  |   |      |

**Groundwater Sampling Log**

|  |                      |                |                          |  |  |   |      |   |        |                          |      |                          |
|--|----------------------|----------------|--------------------------|--|--|---|------|---|--------|--------------------------|------|--------------------------|
|  <b>TERRY Environmental Services</b><br><small>CLIENTS FIRST ALWAYS</small> |                      |                |                          | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605 |  |   |      |   |        |                          |      |                          |
|  |                      |                |                          | <p align="center"><b>Site Specific Information</b></p> |  |   |      | <p align="center"><b>Monitoring Well Information</b></p>  |        |                          |      |                          |
| Terry Project ID   |                      | 2230.8P        |                          | Well ID  |  | 12719 - MW-11   |      |   |        |                          |      |                          |
| SCDHEC Permit No.  |                      | 12719          |                          | Testing Parameters                                     |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |      |   |        |                          |      |                          |
| Project Name   |                      | Hot Spot #3005 |                          |  |  |   |      |   |        |                          |      |                          |
| Date   |                      | 9/19/2022      |                          |  |  |   |      |   |        |                          |      |                          |
| Field Personnel  |                      | LJ JF          |                          | Well Diameter  |  | 2   | in   | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |        |                          |      |                          |
| General Weather  |                      | clear          |                          | Screened Interval                                      |  | 18-28   | ft   |   |        |                          |      |                          |
| Ambient Air Temperature  |                      | 80             |                          | Total Well Depth (nearest 0.1')                        |  | 28.2  | ft   |   |        |                          |      |                          |
| <p align="center"><b>Quality Assurance</b></p>   |                      |                |                          | Depth to Groundwater (nearest 0.01')                   |  | 22.51   | ft   |   |        |                          |      |                          |
|  |                      |                |                          | Length of Water Column                                 |  | 5.69  | ft   |   |        |                          |      |                          |
| Meter  | Horiba U-52-2        | or             | Meter                    | Horiba U-52-2  | 1 Casing Volume (0.163)                          |   | ft   |   |        |                          |      |                          |
| Serial Number  | VPTPGA3X             |                | Serial Number            | V3KNWUE9   | 3 Casing Volumes (0.489)                         |   | gals |   |        |                          |      |                          |
| Calibration Constant   | 4.00 su              |                | Calibration Constant     | 4.00 su  | Total Volume Purged                              |   | gals |   |        |                          |      |                          |
| Calibration Constant   | 4.49 mS/cm           |                | Calibration Constant     | 4.49 mS/cm   | Purge Technique Utilized (bailer, pump)          |   |      |   |        |                          |      |                          |
| Calibration Constant   | 0.0 NTU              |                | Calibration Constant     | 0.0 NTU  | Well Yield                                       |   | Low  | <input type="checkbox"/>  | Medium | <input type="checkbox"/> | High | <input type="checkbox"/> |
| Last Calibration (time)  | <del>0830</del> 1230 |                | Last Verification (time) |  |  |   |      |   | 28.2   |                          |      |                          |
| Volume (gal)   | initial              |                |                          |  |  |   |      |   |        |                          |      |                          |
| Time (military)  | 1241                 |                |                          |  |  |   |      |   |        |                          |      |                          |
| pH (su)  | 7.78                 |                |                          |  |  |   |      |   |        |                          |      |                          |
| Spec Conductivity (mS/cm)  | 0.109                |                |                          |  |  |   |      |   |        |                          |      |                          |
| Water Temperature (°C)   | 24.1                 |                |                          |  |  |   |      |   |        |                          |      |                          |
| Turbidity (NTU)  | 0.0                  |                |                          |  |  |   |      |   |        |                          |      |                          |
| Dissolved Oxygen (mg/L)  | 8.97                 |                |                          |  |  |   |      |   |        |                          |      |                          |
| <p align="center"><b>Well Condition Information</b></p>  |                      |                |                          |  | <p align="center"><b>Additional Comments</b></p> |   |      |   |        |                          |      |                          |
| -overall condition acceptable?   |                      |                |                          |  | FB-1@ <del>0830</del> 1225                       |   |      |   |        |                          |      |                          |
| -well cap acceptable?  |                      |                |                          |  |  |   |      |   |        |                          |      |                          |
| -manhole and cover acceptable?   |                      |                |                          |  |  |   |      |   |        |                          |      |                          |
| -well pad acceptable?  |                      |                |                          |  |  |   |      |   |        |                          |      |                          |
| -area safe?  |                      |                |                          |  |  |   |      |   |        |                          |      |                          |
| -other comments  |                      |                |                          |  |  |   |      |   |        |                          |      |                          |

**Groundwater Sampling Log**

|  |  |                |  |  |  |  |  |   |  |
|--|--|----------------|--|--|--|--|--|---|--|
| <b>TERRY Environmental Services</b><br><small>CLIENTS FIRST ALWAYS</small> |  |                |  | P.O. Box 25<br>Summerville, SC 29484<br>1-800-325-0605   |  |  |  |   |  |
|  |  |                |  | <p align="center"><b>Site Specific Information</b></p>   |  |  |  | <p align="center"><b>Monitoring Well Information</b></p>  |  |
| Terry Project ID   |  | 2230.8P        |  | Well ID  |  | 12719-MW-11R   |  |   |  |
| SCDHEC Permit No.  |  | 12719          |  | Testing Parameters   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB  |  |   |  |
| Project Name   |  | Hot Spot #3005 |  |  |  |  |  |   |  |
| Date   |  | 9/19/2022      |  | Well Diameter  |  | 2  |  | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |  |
| Field Personnel  |  | LJ JF          |  | Screened Interval  |  | 22-32  |  |   |  |
| General Weather  |  | clear          |  | Total Well Depth (nearest 0.1')  |  | 32.3   |  |   |  |
| Ambient Air Temperature  |  | 80             |  | Depth to Groundwater (nearest 0.01')   |  | 22.48  |  |   |  |
| <p align="center"><b>Quality Assurance</b></p>                             |  |                |  | Length of Water Column   |  | 9.82   |  |   |  |
|  |  |                |  | Meter: Horiba U-52-2<br>Serial Number: VPTPGA3X<br>Calibration Constant: 4.00 su<br>Calibration Constant: 4.49 mS/cm<br>Calibration Constant: 0.0 NTU<br>Last Calibration (time): 1230 |  | or<br>Meter: Horiba U-52-2<br>Serial Number: V3KNWUE9<br>Calibration Constant: 4.00 su<br>Calibration Constant: 4.49 mS/cm<br>Calibration Constant: 0.0 NTU<br>Last Verification (time): |  | 1 Casing Volume (0.163) ft<br>3 Casing Volumes (0.489) gals<br>Total Volume Purged gals         |  |
|  |  |                |  | Purge Technique Utilized (bailer, pump)  |  |  |  | 32.3  |  |
|  |  |                |  | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/>   |  |  |  |   |  |
| Volume (gal)   |  | initial        |  |  |  |  |  |   |  |
| Time (military)  |  | 1247           |  |  |  |  |  |   |  |
| pH (su)  |  | 4.50           |  |  |  |  |  |   |  |
| Spec Conductivity (mS/cm)  |  | 0.079          |  |  |  |  |  |   |  |
| Water Temperature (°C)   |  | 21.8           |  |  |  |  |  |   |  |
| Turbidity (NTU)  |  | 0.0            |  |  |  |  |  |   |  |
| Dissolved Oxygen (mg/L)  |  | 7.18           |  |  |  |  |  |   |  |
| <p align="center"><b>Well Condition Information</b></p>                    |  |                |  | <p align="center"><b>Additional Comments</b></p>   |  |  |  |   |  |
| -overall condition acceptable?   |  |                |  |  |  |  |  |   |  |
| -well cap acceptable?  |  |                |  |  |  |  |  |   |  |
| -manhole and cover acceptable?   |  |                |  |  |  |  |  |   |  |
| -well pad acceptable?  |  |                |  |  |  |  |  |   |  |
| -area safe?  |  |                |  |  |  |  |  |   |  |
| -other comments  |  |                |  |  |  |  |  |   |  |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |                          |    |                          | Monitoring Well Information          |   |                              |   |                               |
|--------------------------------|--------------------------|----|--------------------------|--------------------------------------|---|------------------------------|---|-------------------------------|
| Terry Project ID               | 2230.8P                  |    |                          | Well ID                              | 12719 - MW-12   |                              |   |                               |
| SCDHEC Permit No.              | 12719                    |    |                          | Testing Parameters                   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |                              |   |                               |
| Project Name                   | Hot Spot #3005           |    |                          |                                      |   |                              |   |                               |
| Date                           | 9/19/2022                |    |                          |                                      |   |                              |   |                               |
| Field Personnel                | LJ, JF                   |    |                          | Well Diameter                        | 2   | in                           | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |                               |
| General Weather                | clear                    |    |                          | Screened Interval                    | 20-30   | ft                           |   |                               |
| Ambient Air Temperature        | 85                       |    |                          | Total Well Depth (nearest 0.1')      | 30.4  | ft                           |   |                               |
| Quality Assurance              |                          |    |                          | Depth to Groundwater (nearest 0.01') | 21.55   | ft                           |   |                               |
| Meter                          | Horiba U-52-2            | or | Meter                    | Horiba U-52-2                        | Length of Water Column                                | 8.85                         |   | ft                            |
| Serial Number                  | VPTPGA3X                 |    | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                               |                              | ft  |                               |
| Calibration Constant           | 4.00 su                  |    | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                              |                              | gals  |                               |
| Calibration Constant           | 4.49 mS/cm               |    | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                                   |                              | gals  |                               |
| Calibration Constant           | 0.0 NTU                  |    | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)               |                              |   |                               |
| Last Calibration (time)        | 1230                     |    | Last Verification (time) |                                      | Well Yield  | Low <input type="checkbox"/> | Medium <input type="checkbox"/>   | High <input type="checkbox"/> |
| Volume (gal)                   | initial                  |    |                          |                                      |   |                              |   |                               |
| Time (military)                | 1410                     |    |                          |                                      |   |                              |   |                               |
| pH (su)                        | 7.85                     |    |                          |                                      |   |                              |   |                               |
| Spec Conductivity (mS/cm)      | 0.101                    |    |                          |                                      |   |                              |   |                               |
| Water Temperature (°C)         | 23.0                     |    |                          |                                      |   |                              |   |                               |
| Turbidity (NTU)                | 0.0                      |    |                          |                                      |   |                              |   |                               |
| Dissolved Oxygen (mg/L)        | 9.16                     |    |                          |                                      |   |                              |   |                               |
| Well Condition Information     |                          |    |                          | Additional Comments                  |   |                              |   |                               |
| -overall condition acceptable? | casing bent near surface |    |                          |                                      |   |                              |   |                               |
| -well cap acceptable?          | -push bailed through     |    |                          |                                      |   |                              |   |                               |
| -manhole and cover acceptable? |                          |    |                          |                                      |   |                              |   |                               |
| -well pad acceptable?          |                          |    |                          |                                      |   |                              |   |                               |
| -area safe?                    |                          |    |                          |                                      |   |                              |   |                               |
| -other comments                |                          |    |                          |                                      |   |                              |   |                               |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |                |                  |                          | Monitoring Well Information          |   |   |                                 |   |
|--------------------------------|----------------|------------------|--------------------------|--------------------------------------|---|---|---------------------------------|---|
| Terry Project ID               |                | 2230.8P          |                          | Well ID                              |   | 12719 - <u>MW-13</u>                                  |                                 |   |
| SCDHEC Permit No.              |                | 12719            |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |                                 |   |
| Project Name                   |                | Hot Spot #3005   |                          |                                      |   |   |                                 |   |
| Date                           |                | <u>9/19/2022</u> |                          |                                      |   |   |                                 |   |
| Field Personnel                |                | <u>LJ, JF</u>    |                          | Well Diameter                        |   | <u>2</u>  | in                              |   |
| General Weather                |                | <u>Clear</u>     |                          | Screened Interval                    |   | <u>17-27</u>  | ft                              |   |
| Ambient Air Temperature        |                | <u>80</u>        |                          | Total Well Depth (nearest 0.1')      |   | <u>27.4</u>   | ft                              |   |
| Quality Assurance              |                |                  |                          | Depth to Groundwater (nearest 0.01') |   | <u>22.74</u>  | ft                              |   |
| Meter                          | Horiba U-52-2  | or               | Meter                    | Horiba U-52-2                        | Length of Water Column                  | <u>4.66</u>   | ft                              |   |
| Serial Number                  | VPTPGA3X       |                  | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   | ft                              |   |
| Calibration Constant           | 4.00 su        |                  | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   | gals                            |   |
| Calibration Constant           | 4.49 mS/cm     |                  | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   | gals                            |   |
| Calibration Constant           | 0.0 NTU        |                  | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |                                 |   |
| Last Calibration (time)        | <u>1230</u>    |                  | Last Verification (time) |                                      | Well Yield                              | Low <input type="checkbox"/>                          | Medium <input type="checkbox"/> | High <input type="checkbox"/>   |
| Volume (gal)                   | <u>initial</u> |                  |                          |                                      |   |   |                                 | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| Time (military)                | <u>1420</u>    |                  |                          |                                      |   |   |                                 |   |
| pH (su)                        | <u>4.92</u>    |                  |                          |                                      |   |   |                                 |   |
| Spec Conductivity (mS/cm)      | <u>0.103</u>   |                  |                          |                                      |   |   |                                 |   |
| Water Temperature (°C)         | <u>22.6</u>    |                  |                          |                                      |   |   |                                 |   |
| Turbidity (NTU)                | <u>0.0</u>     |                  |                          |                                      |   |   |                                 |   |
| Dissolved Oxygen (mg/L)        | <u>6.60</u>    |                  |                          |                                      |   |   |                                 |   |
|                                |                |                  |                          |                                      |   |   |                                 |   |
| Well Condition Information     |                |                  |                          | Additional Comments                  |   |   |                                 |   |
| -overall condition acceptable? |                |                  |                          |                                      |   |   |                                 |   |
| -well cap acceptable?          |                |                  |                          |                                      |   |   |                                 |   |
| -manhole and cover acceptable? |                |                  |                          |                                      |   |   |                                 |   |
| -well pad acceptable?          |                |                  |                          |                                      |   |   |                                 |   |
| -area safe?                    |                |                  |                          |                                      |   |   |                                 |   |
| -other comments                |                |                  |                          |                                      |   |   |                                 |   |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                          |               | Monitoring Well Information  |  |   |      |
|--------------------------------|---------------|--------------------------|---------------|--|--|---|------|
| Terry Project ID               |               | 2230.8P                  |               | Well ID  |  | 12719 - MW-14   |      |
| SCDHEC Permit No.              |               | 12719                    |               | Testing Parameters   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |      |
| Project Name                   |               | Hot Spot #3005           |               |  |  |   |      |
| Date                           |               | 9/20/2022                |               |  |  |   |      |
| Field Personnel                |               | LJ JF                    |               | Well Diameter  |  | 2   | in   |
| General Weather                |               | clear                    |               | Screened Interval  |  | 21-31   | ft   |
| Ambient Air Temperature        |               | 70                       |               | Total Well Depth (nearest 0.1')  |  | 30.6  | ft   |
| Quality Assurance              |               |                          |               | Depth to Groundwater (nearest 0.01')   |  | 26.12   | ft   |
| Meter                          | Horiba U-52-2 | Meter                    | Horiba U-52-2 | Length of Water Column   |  | 4.48  | ft   |
| Serial Number                  | VPTPGA3X      | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)  |  |   | ft   |
| Calibration Constant           | 4.00 su       | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)   |  |   | gals |
| Calibration Constant           | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged  |  |   | gals |
| Calibration Constant           | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailer, pump)  |  |   |      |
| Last Calibration (time)        | 0915          | Last Verification (time) |               | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |   |      |
| Volume (gal)                   | initial       |                          |               |  |  |   |      |
| Time (military)                | 0420          |                          |               |  |  |   |      |
| pH (su)                        | 4.30          |                          |               |  |  |   |      |
| Spec Conductivity (mS/cm)      | 0.077         |                          |               |  |  |   |      |
| Water Temperature (°C)         | 21.5          |                          |               |  |  |   |      |
| Turbidity (NTU)                | 6.7           |                          |               |  |  |   |      |
| Dissolved Oxygen (mg/L)        | 3.28          |                          |               |  |  |   |      |
| Well Condition Information     |               |                          |               | Additional Comments  |  |   |      |
| -overall condition acceptable? |               |                          |               |  |  |   |      |
| -well cap acceptable?          |               |                          |               | replaced   |  |   |      |
| -manhole and cover acceptable? |               |                          |               |  |  |   |      |
| -well pad acceptable?          |               |                          |               |  |  |   |      |
| -area safe?                    |               |                          |               |  |  |   |      |
| -other comments                |               |                          |               |  |  |   |      |

TAG  
BOTTOM OF  
WELL TO  
VERIFY  
WELL  
DEPTH,  
WRITE  
BELOW TO  
NEAREST  
0.1'

30.6

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |                |    |                          | Monitoring Well Information          |   |  |   |
|--------------------------------|----------------|----|--------------------------|--------------------------------------|---|--|---|
| Terry Project ID               | 2230.8P        |    |                          | Well ID                              | 12719 - MW-15   |  |   |
| SCDHEC Permit No.              | 12719          |    |                          | Testing Parameters                   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |  |   |
| Project Name                   | Hot Spot #3005 |    |                          |                                      |   |  |   |
| Date                           | 9/19/2022      |    |                          |                                      |   |  |   |
| Field Personnel                | LJ JF          |    |                          | Well Diameter                        | 2   | in   | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |
| General Weather                | clear          |    |                          | Screened Interval                    | 25-35   | ft   |   |
| Ambient Air Temperature        | 85             |    |                          | Total Well Depth (nearest 0.1')      | 35.5  | ft   |   |
| Quality Assurance              |                |    |                          | Depth to Groundwater (nearest 0.01') | 28.88   | ft   |   |
| Meter                          | Horiba U-52-2  | or | Meter                    | Horiba U-52-2                        | Length of Water Column                                | 6.62   |   |
| Serial Number                  | VPTPGA3X       |    | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                               |  | ft  |
| Calibration Constant           | 4.00 su        |    | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                              |  | gals  |
| Calibration Constant           | 4.49 mS/cm     |    | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                                   |  | gals  |
| Calibration Constant           | 0.0 NTU        |    | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)               |  |   |
| Last Calibration (time)        | 1230           |    | Last Verification (time) |                                      | Well Yield  | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> | 35.5  |
| Volume (gal)                   | initial        |    |                          |                                      |   |  |   |
| Time (military)                | 1603           |    |                          |                                      |   |  |   |
| pH (su)                        | 5.32           |    |                          |                                      |   |  |   |
| Spec Conductivity (mS/cm)      | 0.060          |    |                          |                                      |   |  |   |
| Water Temperature (°C)         | 24.9           |    |                          |                                      |   |  |   |
| Turbidity (NTU)                | 17.1           |    |                          |                                      |   |  |   |
| Dissolved Oxygen (mg/L)        | 3.86           |    |                          |                                      |   |  |   |
| Well Condition Information     |                |    |                          | Additional Comments                  |   |  |   |
| -overall condition acceptable? |                |    |                          |                                      |   |  |   |
| -well cap acceptable?          |                |    |                          |                                      |   |  |   |
| -manhole and cover acceptable? |                |    |                          | fire ant colony in vault             |   |  |   |
| -well pad acceptable?          |                |    |                          |                                      |   |  |   |
| -area safe?                    |                |    |                          |                                      |   |  |   |
| -other comments                |                |    |                          |                                      |   |  |   |



**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |  |   |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|--|---|------|
| Terry Project ID               |               | 2230.8P        |                          | Well ID                              |  | 12719 - MW-16   |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |  |   |      |
| Date                           |               | 9/20/2022      |                          | Well Diameter                        |  | 2   | in   |
| Field Personnel                |               | LJ JF          |                          | Screened Interval                    |  | 28-38   | ft   |
| General Weather                |               | clear          |                          | Total Well Depth (nearest 0.1')      |  | 37.7  | ft   |
| Ambient Air Temperature        |               | 85             |                          | Depth to Groundwater (nearest 0.01') |  | 30.35   | ft   |
| Quality Assurance              |               |                |                          | Length of Water Column               |  | 7.35  | ft   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | 1 Casing Volume (0.163)  |   | ft   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 3 Casing Volumes (0.489)   |   | gals |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | Total Volume Purged  |   | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Purge Technique Utilized (bailer, pump)  |   |      |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   |      |
| Last Calibration (time)        | 0815          |                | Last Verification (time) | 1215                                 | 37.7   |   |      |
| Volume (gal)                   | initial       |                |                          |                                      |  |   |      |
| Time (military)                | 1412          |                |                          |                                      |  |   |      |
| pH (su)                        | 5.15          |                |                          |                                      |  |   |      |
| Spec Conductivity (mS/cm)      | 0.144         |                |                          |                                      |  |   |      |
| Water Temperature (°C)         | 25.6          |                |                          |                                      |  |   |      |
| Turbidity (NTU)                | 107           |                |                          |                                      |  |   |      |
| Dissolved Oxygen (mg/L)        | 4.76          |                |                          |                                      |  |   |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |  |   |      |
| -overall condition acceptable? |               |                |                          | deep 1414                            |  |   |      |
| -well cap acceptable?          |               |                |                          |                                      |  |   |      |
| -manhole and cover acceptable? |               |                |                          |                                      |  |   |      |
| -well pad acceptable?          |               |                |                          |                                      |  |   |      |
| -area safe?                    |               |                |                          |                                      |  |   |      |
| -other comments                |               |                |                          |                                      |  |   |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |  |                |  | Monitoring Well Information             |  |   |                                 |
|--------------------------------|--|----------------|--|---|--|---|---------------------------------|
| Terry Project ID               |  | 2230.8P        |  | Well ID                                 |  | 12719 - MW-17   |                                 |
| SCDHEC Permit No.              |  | 12719          |  | Testing Parameters                      |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |                                 |
| Project Name                   |  | Hot Spot #3005 |  |   |  |   |                                 |
| Date                           |  | 9/19/2022      |  |   |  |   |                                 |
| Field Personnel                |  | LJ JF          |  | Well Diameter                           |  | 2   | in                              |
| General Weather                |  | clear          |  | Screened Interval                       |  | 20-30   | ft                              |
| Ambient Air Temperature        |  | 65             |  | Total Well Depth (nearest 0.1')         |  | 30.6  | ft                              |
| Quality Assurance              |  |                |  | Depth to Groundwater (nearest 0.01')    |  |   |                                 |
| Meter                          |  | Horiba U-52-2  |  | Meter                                   |  | Horiba U-52-2   |                                 |
| Serial Number                  |  | VPTPGA3X       |  | Serial Number                           |  | V3KNWUE9  |                                 |
| Calibration Constant           |  | 4.00 su        |  | Calibration Constant                    |  | 4.00 su   |                                 |
| Calibration Constant           |  | 4.49 mS/cm     |  | Calibration Constant                    |  | 4.49 mS/cm  |                                 |
| Calibration Constant           |  | 0.0 NTU        |  | Calibration Constant                    |  | 0.0 NTU   |                                 |
| Last Calibration (time)        |  | 1230           |  | Last Verification (time)                |  | 1630  |                                 |
|                                |  |                |  | Length of Water Column                  |  | 432   | ft                              |
|                                |  |                |  | 1 Casing Volume (0.163)                 |  |   | ft                              |
|                                |  |                |  | 3 Casing Volumes (0.489)                |  |   | gals                            |
|                                |  |                |  | Total Volume Purged                     |  |   | gals                            |
|                                |  |                |  | Purge Technique Utilized (bailer, pump) |  |   |                                 |
|                                |  |                |  | Well Yield                              |  | Low <input type="checkbox"/>                          | Medium <input type="checkbox"/> |
|                                |  |                |  |   |  | High <input type="checkbox"/>                         | 306                             |
| Volume (gal)                   |  | initial        |  |   |  |   |                                 |
| Time (military)                |  | 1731           |  |   |  |   |                                 |
| pH (su)                        |  | 6.09           |  |   |  |   |                                 |
| Spec Conductivity (mS/cm)      |  | 0.063          |  |   |  |   |                                 |
| Water Temperature (°C)         |  | 22.7           |  |   |  |   |                                 |
| Turbidity (NTU)                |  | 0.0            |  |   |  |   |                                 |
| Dissolved Oxygen (mg/L)        |  | 9.66           |  |   |  |   |                                 |
| Well Condition Information     |  |                |  | Additional Comments                     |  |   |                                 |
| -overall condition acceptable? |  |                |  |   |  |   |                                 |
| -well cap acceptable?          |  |                |  |   |  |   |                                 |
| -manhole and cover acceptable? |  |                |  |   |  |   |                                 |
| -well pad acceptable?          |  |                |  |   |  |   |                                 |
| -area safe?                    |  |                |  |   |  |   |                                 |
| -other comments                |  |                |  |   |  |   |                                 |

**Groundwater Sampling Log**



P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |  |   |    |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|--|---|----|
| Terry Project ID               |               | 2230.8P        |                          | Well ID                              |  | 12719 - MW-18   |    |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |    |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |  |   |    |
| Date                           |               | 9/19/2022      |                          | Well Diameter                        |  | 2   | in |
| Field Personnel                |               | LJ JF          |                          | Screened Interval                    |  | 20-30   | ft |
| General Weather                |               | clear          |                          | Total Well Depth (nearest 0.1')      |  | 30.1  | ft |
| Ambient Air Temperature        |               | 80             |                          | Depth to Groundwater (nearest 0.01') |  | 24.55   | ft |
| Quality Assurance              |               |                |                          | Length of Water Column               |  | 5.55  | ft |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | 1 Casing Volume (0.163)  |   |    |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 3 Casing Volumes (0.489)   |   |    |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | Total Volume Purged  |   |    |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Purge Technique Utilized (bailer, pump)  |   |    |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   |    |
| Last Calibration (time)        | 1230          |                | Last Verification (time) | 1630                                 | 30.1   |   |    |
| Volume (gal)                   | initial       |                |                          |                                      |  |   |    |
| Time (military)                | 1747          |                |                          |                                      |  |   |    |
| pH (su)                        | 5.59          |                |                          |                                      |  |   |    |
| Spec Conductivity (mS/cm)      | 0.071         |                |                          |                                      |  |   |    |
| Water Temperature (°C)         | 21.5          |                |                          |                                      |  |   |    |
| Turbidity (NTU)                | 5.2           |                |                          |                                      |  |   |    |
| Dissolved Oxygen (mg/L)        | 9.84          |                |                          |                                      |  |   |    |
| Well Condition Information     |               |                |                          | Additional Comments                  |  |   |    |
| -overall condition acceptable? |               |                |                          |                                      |  |   |    |
| -well cap acceptable?          |               |                |                          |                                      |  |   |    |
| -manhole and cover acceptable? |               |                |                          |                                      |  |   |    |
| -well pad acceptable?          |               |                |                          |                                      |  |   |    |
| -area safe?                    |               |                |                          |                                      |  |   |    |
| -other comments                |               |                |                          |                                      |  |   |    |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |                |                |                          | Monitoring Well Information          |  |   |      |
|--------------------------------|----------------|----------------|--------------------------|--------------------------------------|--|---|------|
| Terry Project ID               |                | 2230.8P        |                          | Well ID                              |  | 12719 - <b>MW-19</b>                                  |      |
| SCDHEC Permit No.              |                | 12719          |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |      |
| Project Name                   |                | Hot Spot #3005 |                          |                                      |  |   |      |
| Date                           |                | 9/20/2022      |                          |                                      |  |   |      |
| Field Personnel                |                | <b>LJ JF</b>   |                          | Well Diameter                        |  | <b>2</b>  | in   |
| General Weather                |                | <b>clear</b>   |                          | Screened Interval                    |  | <b>20-30</b>  | ft   |
| Ambient Air Temperature        |                | <b>60</b>      |                          | Total Well Depth (nearest 0.1')      |  | <b>30.5</b>   | ft   |
| Quality Assurance              |                |                |                          | Depth to Groundwater (nearest 0.01') |  | <b>26.23</b>  | ft   |
| Meter                          | Horiba U-52-2  | or             | Meter                    | Horiba U-52-2                        | Length of Water Column   | <b>4.27</b>   | ft   |
| Serial Number                  | VPTPGA3X       |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)  |   | ft   |
| Calibration Constant           | 4.00 su        |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)   |   | gals |
| Calibration Constant           | 4.49 mS/cm     |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged  |   | gals |
| Calibration Constant           | 0.0 NTU        |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)  |   |      |
| Last Calibration (time)        | <b>0815</b>    |                | Last Verification (time) |                                      | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   |      |
| Volume (gal)                   | <b>initial</b> |                |                          |                                      |  |   |      |
| Time (military)                | <b>0823</b>    |                |                          |                                      |  |   |      |
| pH (su)                        | <b>4.68</b>    |                |                          |                                      |  |   |      |
| Spec Conductivity (mS/cm)      | <b>0.116</b>   |                |                          |                                      |  |   |      |
| Water Temperature (°C)         | <b>21.9</b>    |                |                          |                                      |  |   |      |
| Turbidity (NTU)                | <b>94.8</b>    |                |                          |                                      |  |   |      |
| Dissolved Oxygen (mg/L)        | <b>4.09</b>    |                |                          |                                      |  |   |      |
| Well Condition Information     |                |                |                          | Additional Comments                  |  |   |      |
| -overall condition acceptable? |                |                |                          | <b>FB-2@0810</b>                     |  |   |      |
| -well cap acceptable?          |                |                |                          |                                      |  |   |      |
| -manhole and cover acceptable? |                |                |                          |                                      |  |   |      |
| -well pad acceptable?          |                |                |                          |                                      |  |   |      |
| -area safe?                    |                |                |                          |                                      |  |   |      |
| -other comments                |                |                |                          |                                      |  |   |      |

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

**30.5**

**Groundwater Sampling Log**



P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information   |   |   |     |                          |                        |                          |      |                          |      |
|--------------------------------|---------------|----------------|--------------------------|---|---|---|-----|--------------------------|------------------------|--------------------------|------|--------------------------|------|
| Terry Project ID               |               | 2230.8P        |                          | Well ID   |   | 12719 - MW-20   |     |                          |                        |                          |      |                          |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters  |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |     |                          |                        |                          |      |                          |      |
| Project Name                   |               | Hot Spot #3005 |                          |   |   |   |     |                          |                        |                          |      |                          |      |
| Date                           |               | 9/20/2022      |                          | Well Diameter   |   | 2   | in  |                          |                        |                          |      |                          |      |
| Field Personnel                |               | LJ, JF         |                          | Screened Interval   |   | 20-30   | ft  |                          |                        |                          |      |                          |      |
| General Weather                |               | clear          |                          | Total Well Depth (nearest 0.1')   |   | 30.4  | ft  |                          |                        |                          |      |                          |      |
| Ambient Air Temperature        |               | 60             |                          | Depth to Groundwater (nearest 0.01')  |   | 26.68   | ft  |                          |                        |                          |      |                          |      |
| Quality Assurance              |               |                |                          | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1' |   |   |     |                          |                        |                          |      |                          |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    |   |   |   |     | Horiba U-52-2            | Length of Water Column |                          | 3.72 | ft                       |      |
| Serial Number                  | VTPGA3X       |                | Serial Number            | V3KNWUE9  | 1 Casing Volume (0.163)                 |   |     | ft                       |                        |                          |      |                          |      |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su   | 3 Casing Volumes (0.489)                |   |     | gals                     |                        |                          |      |                          |      |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm  | Total Volume Purged                     |   |     | gals                     |                        |                          |      |                          |      |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU   | Purge Technique Utilized (bailer, pump) |   |     |                          |                        |                          |      |                          |      |
| Last Calibration (time)        | 0815          |                | Last Verification (time) |   | Well Yield                              |   | Low | <input type="checkbox"/> | Medium                 | <input type="checkbox"/> | High | <input type="checkbox"/> | 30.4 |
| Volume (gal)                   | initial       |                |                          |   |   |   |     |                          |                        |                          |      |                          |      |
| Time (military)                | 0829          |                |                          |   |   |   |     |                          |                        |                          |      |                          |      |
| pH (su)                        | 4.67          |                |                          |   |   |   |     |                          |                        |                          |      |                          |      |
| Spec Conductivity (mS/cm)      | 0.092         |                |                          |   |   |   |     |                          |                        |                          |      |                          |      |
| Water Temperature (°C)         | 20.9          |                |                          |   |   |   |     |                          |                        |                          |      |                          |      |
| Turbidity (NTU)                | 216           |                |                          |   |   |   |     |                          |                        |                          |      |                          |      |
| Dissolved Oxygen (mg/L)        | 4.94          |                |                          |   |   |   |     |                          |                        |                          |      |                          |      |
| Well Condition Information     |               |                |                          | Additional Comments   |   |   |     |                          |                        |                          |      |                          |      |
| -overall condition acceptable? |               |                |                          |   |   |   |     |                          |                        |                          |      |                          |      |
| -well cap acceptable?          |               |                |                          |   |   |   |     |                          |                        |                          |      |                          |      |
| -manhole and cover acceptable? |               |                |                          |   |   |   |     |                          |                        |                          |      |                          |      |
| -well pad acceptable?          |               |                |                          |   |   |   |     |                          |                        |                          |      |                          |      |
| -area safe?                    |               |                |                          |   |   |   |     |                          |                        |                          |      |                          |      |
| -other comments                |               |                |                          |   |   |   |     |                          |                        |                          |      |                          |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |  |   |      |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|--|---|------|------|
| Terry Project ID               |               | 2230.8P        |                          | Well ID                              |  | 12719 - MW-21   |      |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |      |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |  |   |      |      |
| Date                           |               | 9/20/2022      |                          |                                      |  |   |      |      |
| Field Personnel                |               | LJ JF          |                          | Well Diameter                        |  | 2   | in   |      |
| General Weather                |               | clear          |                          | Screened Interval                    |  | 20-30   | ft   |      |
| Ambient Air Temperature        |               | 65             |                          | Total Well Depth (nearest 0.1')      |  | 30.1  | ft   |      |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |  | 25.95   | ft   |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column   |   | 7.15 | ft   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)  |   |      | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)   |   |      | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged  |   |      | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)  |   |      |      |
| Last Calibration (time)        | 0815          |                | Last Verification (time) |                                      | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   |      | 30.1 |
| Volume (gal)                   | initial       |                |                          |                                      |  |   |      |      |
| Time (military)                | 0837          |                |                          |                                      |  |   |      |      |
| pH (su)                        | 4.26          |                |                          |                                      |  |   |      |      |
| Spec Conductivity (mS/cm)      | 0.118         |                |                          |                                      |  |   |      |      |
| Water Temperature (°C)         | 20.5          |                |                          |                                      |  |   |      |      |
| Turbidity (NTU)                | 187           |                |                          |                                      |  |   |      |      |
| Dissolved Oxygen (mg/L)        | 6.03          |                |                          |                                      |  |   |      |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |  |   |      |      |
| -overall condition acceptable? |               |                |                          |                                      |  |   |      |      |
| -well cap acceptable?          |               |                |                          |                                      |  |   |      |      |
| -manhole and cover acceptable? |               |                |                          |                                      |  |   |      |      |
| -well pad acceptable?          |               |                |                          |                                      |  |   |      |      |
| -area safe?                    |               |                |                          |                                      |  |   |      |      |
| -other comments                |               |                |                          |                                      |  |   |      |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |  |   |      |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|--|---|------|------|
| Terry Project ID               |               | 2230.8P        |                          | Well ID                              |  | 12719 - MW-22   |      |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |      |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |  |   |      |      |
| Date                           |               | 9/19/2022      |                          |                                      |  |   |      |      |
| Field Personnel                |               | LJ JF          |                          | Well Diameter                        |  | 2   | in   |      |
| General Weather                |               | clear          |                          | Screened Interval                    |  | 25-35   | ft   |      |
| Ambient Air Temperature        |               | 85             |                          | Total Well Depth (nearest 0.1')      |  | 35.3  | ft   |      |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |  | 29.40   | ft   |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column   |   | 5.90 | ft   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)  |   |      | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)   |   |      | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged  |   |      | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)  |   |      | 35.3 |
| Last Calibration (time)        | 12:30         |                | Last Verification (time) |                                      | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   |      |      |
| Volume (gal)                   | initial       |                |                          |                                      |  |   |      |      |
| Time (military)                | 1540          |                |                          |                                      |  |   |      |      |
| pH (su)                        | 5.65          |                |                          |                                      |  |   |      |      |
| Spec Conductivity (mS/cm)      | 0.047         |                |                          |                                      |  |   |      |      |
| Water Temperature (°C)         | 24.4          |                |                          |                                      |  |   |      |      |
| Turbidity (NTU)                | 0.0           |                |                          |                                      |  |   |      |      |
| Dissolved Oxygen (mg/L)        | 2.92          |                |                          |                                      |  |   |      |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |  |   |      |      |
| -overall condition acceptable? |               |                |                          |                                      |  |   |      |      |
| -well cap acceptable?          |               |                |                          |                                      |  |   |      |      |
| -manhole and cover acceptable? |               |                |                          |                                      |  |   |      |      |
| -well pad acceptable?          |               |                |                          |                                      |  |   |      |      |
| -area safe?                    |               |                |                          |                                      |  |   |      |      |
| -other comments                |               |                |                          |                                      |  |   |      |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |                |                  |                          | Monitoring Well Information          |  |   |             |             |
|--------------------------------|----------------|------------------|--------------------------|--------------------------------------|--|---|-------------|-------------|
| Terry Project ID               |                | 2230.8P          |                          | Well ID                              |  | 12719 - <u>MW-23</u>                                  |             |             |
| SCDHEC Permit No.              |                | 12719            |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |             |             |
| Project Name                   |                | Hot Spot #3005   |                          |                                      |  |   |             |             |
| Date                           |                | <u>9/19/2022</u> |                          |                                      |  |   |             |             |
| Field Personnel                |                | <u>LJ JF</u>     |                          | Well Diameter                        |  | <u>2</u>  | in          |             |
| General Weather                |                | <u>clear</u>     |                          | Screened Interval                    |  | <u>25-35</u>  | ft          |             |
| Ambient Air Temperature        |                | <u>85</u>        |                          | Total Well Depth (nearest 0.1')      |  | <u>35.1</u>   | ft          |             |
| Quality Assurance              |                |                  |                          | Depth to Groundwater (nearest 0.01') |  | <u>28.53</u>  | ft          |             |
| Meter                          | Horiba U-52-2  | or               | Meter                    | Horiba U-52-2                        | Length of Water Column   |   | <u>6.57</u> | ft          |
| Serial Number                  | VPTPGA3X       |                  | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)  |   |             | ft          |
| Calibration Constant           | 4.00 su        |                  | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)   |   |             | gals        |
| Calibration Constant           | 4.49 mS/cm     |                  | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged  |   |             | gals        |
| Calibration Constant           | 0.0 NTU        |                  | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)  |   |             |             |
| Last Calibration (time)        | <u>1230</u>    |                  | Last Verification (time) |                                      | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   |             | <u>35.1</u> |
| Volume (gal)                   | <u>initial</u> |                  |                          |                                      |  |   |             |             |
| Time (military)                | <u>1552</u>    |                  |                          |                                      |  |   |             |             |
| pH (su)                        | <u>5.33</u>    |                  |                          |                                      |  |   |             |             |
| Spec Conductivity (mS/cm)      | <u>0.052</u>   |                  |                          |                                      |  |   |             |             |
| Water Temperature (°C)         | <u>22.9</u>    |                  |                          |                                      |  |   |             |             |
| Turbidity (NTU)                | <u>0.0</u>     |                  |                          |                                      |  |   |             |             |
| Dissolved Oxygen (mg/L)        | <u>6.18</u>    |                  |                          |                                      |  |   |             |             |
| Well Condition Information     |                |                  |                          | Additional Comments                  |  |   |             |             |
| -overall condition acceptable? |                |                  |                          |                                      |  |   |             |             |
| -well cap acceptable?          |                |                  |                          |                                      |  |   |             |             |
| -manhole and cover acceptable? |                |                  |                          |                                      |  |   |             |             |
| -well pad acceptable?          |                |                  |                          |                                      |  |   |             |             |
| -area safe?                    |                |                  |                          |                                      |  |   |             |             |
| -other comments                |                |                  |                          |                                      |  |   |             |             |



**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |  |   |      |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|--|---|------|------|
| Terry Project ID               |               | 2230.8P        |                          | Well ID                              |  | 12719 - MW-24   |      |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |      |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |  |   |      |      |
| Date                           |               | 9/19/2022      |                          |                                      |  |   |      |      |
| Field Personnel                |               | LJ JF          |                          | Well Diameter                        |  | 2   | in   |      |
| General Weather                |               | clear          |                          | Screened Interval                    |  | 24-34   | ft   |      |
| Ambient Air Temperature        |               | 85             |                          | Total Well Depth (nearest 0.1')      |  | 34.1  | ft   |      |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |  | 28.49   | ft   |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column   |   | 5.61 | ft   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)  |   |      | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)   |   |      | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged  |   |      | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)  |   |      | 34.1 |
| Last Calibration (time)        | 1230          |                | Last Verification (time) | 1630                                 | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   |      |      |
| Volume (gal)                   | initial       |                |                          |                                      |  |   |      |      |
| Time (military)                | 1639          |                |                          |                                      |  |   |      |      |
| pH (su)                        | 9.55          |                |                          |                                      |  |   |      |      |
| Spec Conductivity (mS/cm)      | 0.095         |                |                          |                                      |  |   |      |      |
| Water Temperature (°C)         | 22.1          |                |                          |                                      |  |   |      |      |
| Turbidity (NTU)                | 0.8           |                |                          |                                      |  |   |      |      |
| Dissolved Oxygen (mg/L)        | 11.02         |                |                          |                                      |  |   |      |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |  |   |      |      |
| -overall condition acceptable? |               |                |                          |                                      |  |   |      |      |
| -well cap acceptable?          |               |                |                          |                                      |  |   |      |      |
| -manhole and cover acceptable? |               |                |                          |                                      |  |   |      |      |
| -well pad acceptable?          |               |                |                          |                                      |  |   |      |      |
| -area safe?                    |               |                |                          |                                      |  |   |      |      |
| -other comments                |               |                |                          |                                      |  |   |      |      |

**Groundwater Sampling Log**



P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information                           |                |                  |                          | Monitoring Well Information  |  |   |    |
|---|----------------|------------------|--------------------------|--|--|---|----|
| Terry Project ID                                    |                | 2230.8P          |                          | Well ID  |  | 12719 - <u>MW-25</u>                                  |    |
| SCDHEC Permit No.                                   |                | 12719            |                          | Testing Parameters   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |    |
| Project Name  |                | Hot Spot #3005   |                          |  |  |   |    |
| Date  |                | <u>9/20/2022</u> |                          | Well Diameter  |  | <u>2</u>  | in |
| Field Personnel                                     |                | <u>LJ JF</u>     |                          | Screened Interval  |  | <u>20-30</u>  | ft |
| General Weather                                     |                | <u>clear</u>     |                          | Total Well Depth (nearest 0.1')  |  | <u>30.2</u>   | ft |
| Ambient Air Temperature                             |                | <u>70</u>        |                          | Depth to Groundwater (nearest 0.01')   |  | <u>25.42</u>  | ft |
| Quality Assurance                                   |                |                  |                          | Length of Water Column <u>4.78</u> ft<br>1 Casing Volume (0.163)<br>3 Casing Volumes (0.489) gals<br>Total Volume Purged gals<br>Purge Technique Utilized (bailer, pump)<br>Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |   |    |
| Meter   | Horiba U-52-2  | or               | Meter                    |  |  |   |    |
| Serial Number                                       | VPTPGA3X       |                  | Serial Number            | V3KNWUE9   |  |   |    |
| Calibration Constant                                | 4.00 su        |                  | Calibration Constant     | 4.00 su  |  |   |    |
| Calibration Constant                                | 4.49 mS/cm     |                  | Calibration Constant     | 4.49 mS/cm   |  |   |    |
| Calibration Constant                                | 0.0 NTU        |                  | Calibration Constant     | 0.0 NTU  |  |   |    |
| Last Calibration (time)                             | <u>0815</u>    |                  | Last Verification (time) |  |  |   |    |
| Volume (gal)  | <u>initial</u> |                  |                          |  |  |   |    |
| Time (military)                                     | <u>1010</u>    |                  |                          |  |  |   |    |
| pH (su)   | <u>4.40</u>    |                  |                          |  |  |   |    |
| Spec Conductivity (mS/cm)                           | <u>0.092</u>   |                  |                          |  |  |   |    |
| Water Temperature (°C)                              | <u>22.2</u>    |                  |                          |  |  |   |    |
| Turbidity (NTU)                                     | <u>0.7</u>     |                  |                          |  |  |   |    |
| Dissolved Oxygen (mg/L)                             | <u>2.59</u>    |                  |                          |  |  |   |    |
| Well Condition Information                          |                |                  |                          | Additional Comments  |  |   |    |
| -overall condition acceptable?                      |                |                  |                          |  |  |   |    |
| -well cap acceptable?                               |                |                  |                          |  |  |   |    |
| -manhole and cover acceptable? <u>full of water</u> |                |                  |                          |  |  |   |    |
| -well pad acceptable?                               |                |                  |                          |  |  |   |    |
| -area safe?   |                |                  |                          |  |  |   |    |
| -other comments                                     |                |                  |                          |  |  |   |    |

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

30.2

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |  |   |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|--|---|------|
| Terry Project ID               |               | 2230.8P        |                          | Well ID                              |  | 12719-RW-1  |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |  |   |      |
| Date                           |               | 9/20/2022      |                          |                                      |  |   |      |
| Field Personnel                |               | LJ JF          |                          | Well Diameter                        |  | 4   | in   |
| General Weather                |               |                |                          | Screened Interval                    |  | 20-30   | ft   |
| Ambient Air Temperature        |               |                |                          | Total Well Depth (nearest 0.1')      |  |   | ft   |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |  |   |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column   |   | ft   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)  |   | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)   |   | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged  |   | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump)  |   |      |
| Last Calibration (time)        |               |                | Last Verification (time) |                                      | Well Yield    Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |   |      |
| Volume (gal)                   |               |                |                          |                                      |  |   |      |
| Time (military)                |               |                |                          |                                      |  |   |      |
| pH (su)                        |               |                |                          |                                      |  |   |      |
| Spec Conductivity (mS/cm)      |               |                |                          |                                      |  |   |      |
| Water Temperature (°C)         |               |                |                          |                                      |  |   |      |
| Turbidity (NTU)                |               |                |                          |                                      |  |   |      |
| Dissolved Oxygen (mg/L)        |               |                |                          |                                      |  |   |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |  |   |      |
| -overall condition acceptable? |               |                |                          | FP-25.60-25.74    picture taken      |  |   |      |
| -well cap acceptable?          |               |                |                          | dark golden amber                    |  |   |      |
| -manhole and cover acceptable? |               |                |                          |                                      |  |   |      |
| -well pad acceptable?          |               |                |                          |                                      |  |   |      |
| -area safe?                    |               |                |                          |                                      |  |   |      |
| -other comments                |               |                |                          |                                      |  |   |      |

TAG  
BOTTOM OF  
WELL TO  
VERIFY  
WELL  
DEPTH,  
WRITE  
BELOW TO  
NEAREST  
0.1'

NS - Free Product (0.14)

FP-25.60-25.74    picture taken  
dark golden amber

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                         |                          | Monitoring Well Information             |                          |   |    |  |
|--------------------------------|---------------|-------------------------|--------------------------|---|--------------------------|---|----|--|
| Terry Project ID               |               | 2230.8P                 |                          | Well ID                                 |                          | 12719 - RW-2  |    |  |
| SCDHEC Permit No.              |               | 12719                   |                          | Testing Parameters                      |                          | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |    |  |
| Project Name                   |               | Hot Spot #3005          |                          |   |                          |   |    |  |
| Date                           |               | 9/20/2022               |                          | Well Diameter                           |                          | 4   | in |  |
| Field Personnel                |               | LJ JF                   |                          | Screened Interval                       |                          | 20-30   | ft |  |
| General Weather                |               | clear                   |                          | Total Well Depth (nearest 0.1')         |                          |   | ft |  |
| Ambient Air Temperature        |               | 85                      |                          | Depth to Groundwater (nearest 0.01')    |                          | 26.09   | ft |  |
| Quality Assurance              |               |                         |                          | Purge Technique Utilized (bailer, pump) |                          |   |    |  |
| Meter                          | Horiba U-52-2 | or                      | Meter                    | Horiba U-52-2                           | Length of Water Column   |   |    | ft   |
| Serial Number                  | VPTPGA3X      |                         | Serial Number            | V3KNWUE9                                | 1 Casing Volume (0.163)  |   |    | ft   |
| Calibration Constant           | 4.00 su       |                         | Calibration Constant     | 4.00 su                                 | 3 Casing Volumes (0.489) |   |    | gals   |
| Calibration Constant           | 4.49 mS/cm    |                         | Calibration Constant     | 4.49 mS/cm                              | Total Volume Purged      |   |    | gals   |
| Calibration Constant           | 0.0 NTU       |                         | Calibration Constant     | 0.0 NTU                                 | Well Yield               |   |    | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |
| Last Calibration (time)        | 0815          |                         | Last Verification (time) | 1215                                    |                          |   |    |  |
| Volume (gal)                   |               | NS-Free Product (0.50') |                          |   |                          |   |    |  |
| Time (military)                |               |                         |                          |   |                          |   |    |  |
| pH (su)                        |               |                         |                          |   |                          |   |    |  |
| Spec Conductivity (mS/cm)      |               |                         |                          |   |                          |   |    |  |
| Water Temperature (°C)         |               |                         |                          |   |                          |   |    |  |
| Turbidity (NTU)                |               |                         |                          |   |                          |   |    |  |
| Dissolved Oxygen (mg/L)        |               |                         |                          |   |                          |   |    |  |
| Well Condition Information     |               |                         |                          | Additional Comments                     |                          |   |    |  |
| -overall condition acceptable? |               |                         |                          | Free product 25.59-26.09 (0.50)         |                          |   |    |  |
| -well cap acceptable?          |               |                         |                          | picture taken                           |                          |   |    |  |
| -manhole and cover acceptable? |               |                         |                          |   |                          |   |    |  |
| -well pad acceptable?          |               |                         |                          |   |                          |   |    |  |
| -area safe?                    |               |                         |                          |   |                          |   |    |  |
| -other comments                |               |                         |                          |   |                          |   |    |  |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
 Summerville, SC 29484  
 1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |  |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|--|------|
| Terry Project ID               |               | 2230.8P        |                          | Well ID                              |   | 12719 - RW-3  |  |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |  |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |  |      |
| Date                           |               | 9/20/2022      |                          |                                      |   |   |  |      |
| Field Personnel                |               | LJ JF          |                          | Well Diameter                        |   | 4   | in   |      |
| General Weather                |               | clear          |                          | Screened Interval                    |   | 2.5-35  | ft   |      |
| Ambient Air Temperature        |               | 85             |                          | Total Well Depth (nearest 0.1')      |   | 35.1  | ft   |      |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 29.14   | ft   |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |   | 5.96   | ft   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   |  | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   |  | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   |  | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |  |      |
| Last Calibration (time)        | 0815          |                | Last Verification (time) | 1215                                 | Well Yield                              |   | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> | 35.1 |
| Volume (gal)                   | initial       |                |                          |                                      |   |   |  |      |
| Time (military)                | 1440          |                |                          |                                      |   |   |  |      |
| pH (su)                        | 7.96          |                |                          |                                      |   |   |  |      |
| Spec Conductivity (mS/cm)      | 0.100         |                |                          |                                      |   |   |  |      |
| Water Temperature (°C)         | 24.1          |                |                          |                                      |   |   |  |      |
| Turbidity (NTU)                | 0.0           |                |                          |                                      |   |   |  |      |
| Dissolved Oxygen (mg/L)        | 4.93          |                |                          |                                      |   |   |  |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |  |      |
| -overall condition acceptable? |               |                |                          | dup 1442                             |   |   |  |      |
| -well cap acceptable?          |               |                |                          |                                      |   |   |  |      |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |  |      |
| -well pad acceptable?          |               |                |                          |                                      |   |   |  |      |
| -area safe?                    |               |                |                          |                                      |   |   |  |      |
| -other comments                |               |                |                          |                                      |   |   |  |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |   |      |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|---|------|
| Terry Project ID               |               | 2230.8P        |                          | Well ID                              |   | 12719 - MW-1D   |   |      |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |   |      |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |   |      |
| Date                           |               | 9/20/2022      |                          |                                      |   |   |   |      |
| Field Personnel                |               | LJ, JF         |                          | Well Diameter                        |   | 2   | in  |      |
| General Weather                |               | clear          |                          | Screened Interval                    |   | 55-60   | ft  |      |
| Ambient Air Temperature        |               | 80             |                          | Total Well Depth (nearest 0.1')      |   | 58.6  | ft  |      |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   | 26.38   | ft  |      |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |   | 32.22   | ft   |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   | 5.25  | ft   |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   | 15.76   | gals |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   | 18  | gals |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |   |      |
| Last Calibration (time)        | 0815          |                | Last Verification (time) |                                      | Well Yield                              |   | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input checked="" type="checkbox"/> | 58.6 |
| Volume (gal)                   | initial       | 6              | 12                       | 18                                   |   |   |   |      |
| Time (military)                | 1139          | 1148           | 1155                     | 1206                                 |   |   |   |      |
| pH (su)                        | 5.33          | 5.31           | 5.33                     | 5.26                                 |   |   |   |      |
| Spec Conductivity (mS/cm)      | 0.072         | 0.063          | 0.060                    | 0.050                                |   |   |   |      |
| Water Temperature (°C)         | 23.7          | 22.0           | 21.5                     | 21.3                                 |   |   |   |      |
| Turbidity (NTU)                | 0.0           | 0.0            | 0.0                      | 0.0                                  |   |   |   |      |
| Dissolved Oxygen (mg/L)        | 8.96          | 5.83           | 5.78                     | 5.75                                 |   |   |   |      |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |   |      |
| -overall condition acceptable? |               |                |                          |                                      |   |   |   |      |
| -well cap acceptable?          |               |                |                          | replaced                             |   |   |   |      |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |   |      |
| -well pad acceptable?          |               |                |                          |                                      |   |   |   |      |
| -area safe?                    |               |                |                          |                                      |   |   |   |      |
| -other comments                |               |                |                          |                                      |   |   |   |      |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                |                          | Monitoring Well Information          |   |   |       |   |
|--------------------------------|---------------|----------------|--------------------------|--------------------------------------|---|---|-------|---|
| Terry Project ID               |               | 2230.8P        |                          | Well ID                              |   | 12719-DW-2  |       |   |
| SCDHEC Permit No.              |               | 12719          |                          | Testing Parameters                   |   | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |       |   |
| Project Name                   |               | Hot Spot #3005 |                          |                                      |   |   |       |   |
| Date                           |               | 9/20/2022      |                          |                                      |   |   |       |   |
| Field Personnel                |               | LJ JP          |                          | Well Diameter                        |   | 2   | in    |   |
| General Weather                |               | clear          |                          | Screened Interval                    |   | 55-60   | ft    |   |
| Ambient Air Temperature        |               | 20             |                          | Total Well Depth (nearest 0.1')      |   | 60.1  | ft    |   |
| Quality Assurance              |               |                |                          | Depth to Groundwater (nearest 0.01') |   |   |       |   |
| Meter                          | Horiba U-52-2 | or             | Meter                    | Horiba U-52-2                        | Length of Water Column                  |   | 29.26 | ft  |
| Serial Number                  | VPTPGA3X      |                | Serial Number            | V3KNWUE9                             | 1 Casing Volume (0.163)                 |   | 9.77  | ft  |
| Calibration Constant           | 4.00 su       |                | Calibration Constant     | 4.00 su                              | 3 Casing Volumes (0.489)                |   | 14.31 | gals  |
| Calibration Constant           | 4.49 mS/cm    |                | Calibration Constant     | 4.49 mS/cm                           | Total Volume Purged                     |   | 15    | gals  |
| Calibration Constant           | 0.0 NTU       |                | Calibration Constant     | 0.0 NTU                              | Purge Technique Utilized (bailer, pump) |   |       |   |
| Last Calibration (time)        | 0815          |                | Last Verification (time) |                                      | Well Yield                              |   |       | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input checked="" type="checkbox"/> |
| Volume (gal)                   | initial       | 5              | 10                       | 15                                   |   |   |       | TAG<br>BOTTOM OF<br>WELL TO<br>VERIFY<br>WELL<br>DEPTH,<br>WRITE<br>BELOW TO<br>NEAREST<br>0.1'       |
| Time (military)                | 0934          | 0938           | 0943                     | 0950                                 |   |   |       |   |
| pH (su)                        | 4.91          | 5.31           | 5.24                     | 5.22                                 |   |   |       |   |
| Spec Conductivity (mS/cm)      | 0.069         | 0.065          | 0.066                    | 0.065                                |   |   |       |   |
| Water Temperature (°C)         | 22.6          | 21.7           | 21.6                     | 20.9                                 |   |   |       |   |
| Turbidity (NTU)                | 0.0           | 6.0            | 5.7                      | 6.3                                  |   |   |       |   |
| Dissolved Oxygen (mg/L)        | 3.89          | 6.61           | 6.57                     | 6.43                                 |   |   |       |   |
| Well Condition Information     |               |                |                          | Additional Comments                  |   |   |       |   |
| -overall condition acceptable? |               |                |                          |                                      |   |   |       |   |
| -well cap acceptable?          |               |                |                          |                                      |   |   |       |   |
| -manhole and cover acceptable? |               |                |                          |                                      |   |   |       |   |
| -well pad acceptable?          |               |                |                          |                                      |   |   |       |   |
| -area safe?                    |               |                |                          |                                      |   |   |       |   |
| -other comments                |               |                |                          |                                      |   |   |       |   |

**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |  |                |       |       | Monitoring Well Information             |  |   |                                 |  |      |
|--------------------------------|--|----------------|-------|-------|---|--|---|---------------------------------|--|------|
| Terry Project ID               |  | 2230.8P        |       |       | Well ID                                 |  | 12719 - DW-3  |                                 |  |      |
| SCDHEC Permit No.              |  | 12719          |       |       | Testing Parameters                      |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB |                                 |  |      |
| Project Name                   |  | Hot Spot #3005 |       |       |   |  |   |                                 |  |      |
| Date                           |  | 9/19/2022      |       |       |   |  |   |                                 |  |      |
| Field Personnel                |  | LJ JF          |       |       | Well Diameter                           |  | 2   | in                              | TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1' |      |
| General Weather                |  | clear          |       |       | Screened Interval                       |  | 60-65   | ft                              |  |      |
| Ambient Air Temperature        |  | 85             |       |       | Total Well Depth (nearest 0.1')         |  | 65.0  | ft                              |  |      |
| Quality Assurance              |  |                |       |       | Depth to Groundwater (nearest 0.01')    |  |   |                                 |  |      |
| Meter                          |  | Horiba U-52-2  |       |       | Meter                                   |  | Horiba U-52-2   |                                 |  |      |
| Serial Number                  |  | VPTPGA3X       |       |       | Serial Number                           |  | V3KNWUE9  |                                 |  |      |
| Calibration Constant           |  | 4.00 su        |       |       | Calibration Constant                    |  | 4.00 su   |                                 |  |      |
| Calibration Constant           |  | 4.49 mS/cm     |       |       | Calibration Constant                    |  | 4.49 mS/cm  |                                 |  |      |
| Calibration Constant           |  | 0.0 NTU        |       |       | Calibration Constant                    |  | 0.0 NTU   |                                 |  |      |
| Last Calibration (time)        |  | 1230           |       |       | Last Verification (time)                |  | 1630  |                                 |  |      |
|                                |  |                |       |       | Length of Water Column                  |  | 37.90   | ft                              |  |      |
|                                |  |                |       |       | 1 Casing Volume (0.163)                 |  | 6.18  | ft                              |  |      |
|                                |  |                |       |       | 3 Casing Volumes (0.489)                |  | 18.53   | gals                            |  |      |
|                                |  |                |       |       | Total Volume Purged                     |  | 8.25  | gals                            |  |      |
|                                |  |                |       |       | Purge Technique Utilized (bailer, pump) |  |   |                                 |  |      |
|                                |  |                |       |       | Well Yield                              |  | Low <input checked="" type="checkbox"/>               | Medium <input type="checkbox"/> | High <input type="checkbox"/>  | 65.0 |
| Volume (gal)                   |  | initial        | 6.5   | 8     | 8.25                                    |  |   |                                 |  |      |
| Time (military)                |  | 1642           | 1700  | 1707  | 1715                                    |  |   |                                 |  |      |
| pH (su)                        |  | 8.72           | 8.96  | 9.11  | 8.37                                    |  |   |                                 |  |      |
| Spec Conductivity (mS/cm)      |  | 0.492          | 0.478 | 0.474 | 0.299                                   |  |   |                                 |  |      |
| Water Temperature (°C)         |  | 24.6           | 22.6  | 22.1  | 22.4                                    |  |   |                                 |  |      |
| Turbidity (NTU)                |  | 0.2            | 106   | 92.5  | 113                                     |  |   |                                 |  |      |
| Dissolved Oxygen (mg/L)        |  | 9.69           | 8.84  | 8.11  | 6.81                                    |  |   |                                 |  |      |
| Well Condition Information     |  |                |       |       | Additional Comments                     |  |   |                                 |  |      |
| -overall condition acceptable? |  |                |       |       | purged dry @ 8 gal. recharge and sample |  |   |                                 |  |      |
| -well cap acceptable?          |  |                |       |       |   |  |   |                                 |  |      |
| -manhole and cover acceptable? |  |                |       |       |   |  |   |                                 |  |      |
| -well pad acceptable?          |  |                |       |       |   |  |   |                                 |  |      |
| -area safe?                    |  |                |       |       |   |  |   |                                 |  |      |
| -other comments                |  |                |       |       |   |  |   |                                 |  |      |



**Groundwater Sampling Log**



**TERRY Environmental Services**  
CLIENTS FIRST ALWAYS

P.O. Box 25  
Summerville, SC 29484  
1-800-325-0605

| Site Specific Information      |               |                          |               | Monitoring Well Information             |  |  |  |
|--------------------------------|---------------|--------------------------|---------------|---|--|--|--|
| Terry Project ID               |               | 2230.8P                  |               | Well ID                                 |  | 12719 - SW-1   |  |
| SCDHEC Permit No.              |               | 12719                    |               | Testing Parameters                      |  | BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB                                      |  |
| Project Name                   |               | Hot Spot #3005           |               |   |  |  |  |
| Date                           |               | 9/20/2022                |               |   |  |  |  |
| Field Personnel                |               | LJ JF                    |               | Well Diameter                           |  | in   |  |
| General Weather                |               | clear                    |               | Screened Interval                       |  | ft   |  |
| Ambient Air Temperature        |               | 65                       |               | Total Well Depth (nearest 0.1')         |  | ft   |  |
| Quality Assurance              |               |                          |               | Depth to Groundwater (nearest 0.01')    |  |  |  |
| Meter                          | Horiba U-52-2 | Meter                    | Horiba U-52-2 | Length of Water Column                  |  | ft   |  |
| Serial Number                  | VPTPGA3X      | Serial Number            | V3KNWUE9      | 1 Casing Volume (0.163)                 |  | ft   |  |
| Calibration Constant           | 4.00 su       | Calibration Constant     | 4.00 su       | 3 Casing Volumes (0.489)                |  | gals   |  |
| Calibration Constant           | 4.49 mS/cm    | Calibration Constant     | 4.49 mS/cm    | Total Volume Purged                     |  | gals   |  |
| Calibration Constant           | 0.0 NTU       | Calibration Constant     | 0.0 NTU       | Purge Technique Utilized (bailer, pump) |  |  |  |
| Last Calibration (time)        | 0815          | Last Verification (time) |               | Well Yield                              |  | Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> |  |
| Volume (gal)                   | initial       |                          |               |   |  |  |  |
| Time (military)                | 0857          |                          |               |   |  |  |  |
| pH (su)                        | 5.63          |                          |               |   |  |  |  |
| Spec Conductivity (mS/cm)      | 0.086         |                          |               |   |  |  |  |
| Water Temperature (°C)         | 20.5          |                          |               |   |  |  |  |
| Turbidity (NTU)                | 6.4           |                          |               |   |  |  |  |
| Dissolved Oxygen (mg/L)        | 6.22          |                          |               |   |  |  |  |
| Well Condition Information     |               |                          |               | Additional Comments                     |  |  |  |
| -overall condition acceptable? |               |                          |               |   |  |  |  |
| -well cap acceptable?          |               |                          |               |   |  |  |  |
| -manhole and cover acceptable? |               |                          |               |   |  |  |  |
| -well pad acceptable?          |               |                          |               |   |  |  |  |
| -area safe?                    |               |                          |               |   |  |  |  |
| -other comments                |               |                          |               |   |  |  |  |

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'



Photograph 1 - SW-1 (Tributary)



P.O. BOX 25 Summerville, South Carolina 29484  
[www.terryenvironmental.com](http://www.terryenvironmental.com)

**SURFACE WATER SAMPLING  
PHOTOGRAPH 1  
HOT SPOT #3005  
107 HAMPTON STREET  
CHESNEE, SOUTH CAROLINA  
SCDHEC UST PERMIT #12719  
Terry Project #2230.8P**



**HORIBA U-52-2 DAILY CALIBRATION DATA SHEET**

|   |   |                                |
|---|---|--------------------------------|
| <b>Serial Number:</b><br><u>J6RAKC0E/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | <b>Date:</b> <u>9 / 19 / 22</u><br><br><b>Time:</b> <u>1230</u> | <b>Inspector(s):</b> <u>LJ</u> |
|---|---|--------------------------------|

|  |                                 |   |
|--|---------------------------------|---|
| <b>Solution Manufacturer:</b> <u>Eastern Solutions</u> | <b>Lot Number:</b> <u>14477</u> | <b>Expiration Date:</b> <u>11/17/2022</u> |
| <u>Solution Value</u>                                  | <u>Instrument Reading</u>       | <u>Accuracy</u>                           |
| pH: 4.00   | <u>3.98</u>                     | ± 0.02                                    |
| Conductivity: 4.49 mS/cm                               | <u>4.45</u> mS/cm               | ± 0.04 mS/cm                              |
| Turbidity: 0.0 NTU                                     | <u>0.0</u> NTU                  | ± 0.0 NTU                                 |

|                             |                         |                           |                 |
|-----------------------------|-------------------------|---------------------------|-----------------|
|                             | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
| NIST-Traceable Thermometer: | <u>24.8</u> °C          | <u>24.8</u> °C            | ± 0.0 °C        |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u>     | <u>Accuracy</u>                            |
|----------------------------|--|
| Temperature _____          | ±1°C against an NIST-traceable thermometer |
| Specific Conductance _____ | 10% of each standard used                  |
| pH _____                   | ±0.2 pH units of stated buffer value       |
| Turbidity _____            | 10% of each standard used                  |

**Inspector's Maintenance Notes**

2230.8 P  
Hot Spot 3005

---



---



---



---



---



---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

|   |   |                                |
|---|---|--------------------------------|
| <b>Serial Number:</b><br><u>J6RAKC0E/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | <b>Date:</b> <u>9 / 19 / 22</u><br><br><b>Time:</b> <u>1630</u> | <b>Inspector(s):</b> <u>LJ</u> |
|---|---|--------------------------------|

|  |                                  |   |
|--|----------------------------------|---|
| <b>Solution Manufacturer:</b> <u>Eastern Solutions</u> | <b>Lot Number:</b> <u>14477</u>  | <b>Expiration Date:</b> <u>11/17/2022</u> |
| <u><i>Solution Value</i></u>                           | <u><i>Instrument Reading</i></u> | <u><i>Accuracy</i></u>                    |
| pH: 4.00   | <u>4.05</u>                      | ± 0.05                                    |
| Conductivity: 4.49 mS/cm                               | <u>4.42</u> mS/cm                | ± 0.07 mS/cm                              |
| Turbidity: 0.0 NTU                                     | <u>0.0</u> NTU                   | ± 0.0 NTU                                 |

|  |                                  |                        |
|--|----------------------------------|------------------------|
| <u><i>Standard Reading</i></u>             | <u><i>Instrument Reading</i></u> | <u><i>Accuracy</i></u> |
| NIST-Traceable Thermometer: <u>27.4</u> °C | <u>27.5</u> °C                   | ± 0.1 °C               |

**QAPP Acceptance Criteria**

| <u><i>Field Parameter</i></u> | <u><i>Accuracy</i></u>                     |
|-------------------------------|--|
| Temperature _____             | ±1°C against an NIST-traceable thermometer |
| Specific Conductance _____    | 10% of each standard used                  |
| pH _____                      | ±0.2 pH units of stated buffer value       |
| Turbidity _____               | 10% of each standard used                  |

**Inspector's Maintenance Notes**

---



---



---



---



---



---



---

2230.8 P  
Hot Spot 3005



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

|   |                                 |                                |
|---|---------------------------------|--------------------------------|
| <b>Serial Number:</b><br><u>J6RAKC0E/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | <b>Date:</b> <u>9 / 19 / 22</u> | <b>Inspector(s):</b> <u>LJ</u> |
|   | <b>Time:</b> <u>1755</u>        |                                |

|  |                                 |   |
|--|---------------------------------|---|
| <b>Solution Manufacturer:</b> <u>Eastern Solutions</u> | <b>Lot Number:</b> <u>14477</u> | <b>Expiration Date:</b> <u>11/17/2022</u> |
| <u>Solution Value</u>                                  | <u>Instrument Reading</u>       | <u>Accuracy</u>                           |
| pH: 4.00   | <u>4.03</u>                     | ± <u>0.03</u>                             |
| Conductivity: 4.49 mS/cm                               | <u>4.46</u> mS/cm               | ± <u>0.03</u> mS/cm                       |
| Turbidity: 0.0 NTU                                     | <u>0.0</u> NTU                  | ± <u>0.0</u> NTU                          |

|                             |                         |                           |                 |
|-----------------------------|-------------------------|---------------------------|-----------------|
|                             | <u>Standard Reading</u> | <u>Instrument Reading</u> | <u>Accuracy</u> |
| NIST-Traceable Thermometer: | <u>24.8</u> °C          | <u>25.1</u> °C            | ± <u>0.3</u> °C |

**QAPP Acceptance Criteria**

| <u>Field Parameter</u>     | <u>Accuracy</u>                            |
|----------------------------|--|
| Temperature _____          | ±1°C against an NIST-traceable thermometer |
| Specific Conductance _____ | 10% of each standard used                  |
| pH _____                   | ±0.2 pH units of stated buffer value       |
| Turbidity _____            | 10% of each standard used                  |

**Inspector's Maintenance Notes**

2230.8P  
Hot Spot 3005

---

---

---

---

---

---

---

---





**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

|   |   |                                |
|---|---|--------------------------------|
| <b>Serial Number:</b><br><u>J6RAKC0E/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | <b>Date:</b> <u>9 / 20 / 22</u><br><br><b>Time:</b> <u>1215</u> | <b>Inspector(s):</b> <u>LJ</u> |
|---|---|--------------------------------|

|  |                                  |   |
|--|----------------------------------|---|
| <b>Solution Manufacturer:</b> <u>Eastern Solutions</u> | <b>Lot Number:</b> <u>14477</u>  | <b>Expiration Date:</b> <u>11/17/2022</u> |
| <u><i>Solution Value</i></u>                           | <u><i>Instrument Reading</i></u> | <u><i>Accuracy</i></u>                    |
| pH: 4.00   | <u>3.97</u>                      | ± 0.03                                    |
| Conductivity: 4.49 mS/cm                               | <u>4.50</u> mS/cm                | ± 0.01 mS/cm                              |
| Turbidity: 0.0 NTU                                     | <u>0.5</u> NTU                   | ± 0.5 NTU                                 |

|                             |                                |                                  |                        |
|-----------------------------|--------------------------------|----------------------------------|------------------------|
|                             | <u><i>Standard Reading</i></u> | <u><i>Instrument Reading</i></u> | <u><i>Accuracy</i></u> |
| NIST-Traceable Thermometer: | <u>24.8</u> °C                 | <u>25.1</u> °C                   | ± 0.3 °C               |

**QAPP Acceptance Criteria**

| <u><i>Field Parameter</i></u> | <u><i>Accuracy</i></u>                     |
|-------------------------------|--|
| Temperature _____             | ±1°C against an NIST-traceable thermometer |
| Specific Conductance _____    | 10% of each standard used                  |
| pH _____                      | ±0.2 pH units of stated buffer value       |
| Turbidity _____               | 10% of each standard used                  |

**Inspector's Maintenance Notes**

2230.8P  
Hot Spot 3005

---

---

---

---

---

---

---

---



**HORIBA U-52-2 VERIFICATION CHECK DATA SHEET**

|   |                               |                                |
|---|-------------------------------|--------------------------------|
| <b>Serial Number:</b><br><u>J6RAKC0E/VPTPGA3X</u><br><u>T13E334F/V3KNWUE9</u> | <b>Date:</b> <u>9 120 122</u> | <b>Inspector(s):</b> <u>LJ</u> |
|   | <b>Time:</b> <u>1500</u>      |                                |

|  |                                 |   |
|--|---------------------------------|---|
| <b>Solution Manufacturer:</b> <u>Eastern Solutions</u> | <b>Lot Number:</b> <u>14477</u> | <b>Expiration Date:</b> <u>11/17/2022</u> |
| <u>Solution Value</u>                                  | <u>Instrument Reading</u>       | <u>Accuracy</u>                           |
| pH: 4.00   | <u>3.96</u>                     | ± <u>0.04</u>                             |
| Conductivity: 4.49 mS/cm                               | <u>4.48</u> mS/cm               | ± <u>0.01</u> mS/cm                       |
| Turbidity: 0.0 NTU                                     | <u>0.0</u> NTU                  | ± <u>0.0</u> NTU                          |

|  |                           |                 |
|--|---------------------------|-----------------|
| <u>Standard Reading</u>                    | <u>Instrument Reading</u> | <u>Accuracy</u> |
| NIST-Traceable Thermometer: <u>26.1</u> °C | <u>26.5</u> °C            | ± <u>0.4</u> °C |

**QAPP Acceptance Criteria**

|                            |  |
|----------------------------|--|
| <u>Field Parameter</u>     | <u>Accuracy</u>                            |
| Temperature _____          | ±1°C against an NIST-traceable thermometer |
| Specific Conductance _____ | 10% of each standard used                  |
| pH _____                   | ±0.2 pH units of stated buffer value       |
| Turbidity _____            | 10% of each standard used                  |

**Inspector's Maintenance Notes**

2236.8P  
Hot Spot 3005

---

---

---

---

---

---

---

---





---

## Report of Analysis

**Terry Environmental Services, Inc.**  
222 Varnfield Drive  
Suite F  
Summerville, SC 29483  
Attention: Kelly Cone

Project Name: Hot Spot #3005

Project Number: 2230.8P

Lot Number: **XI23013**

Date Completed: 10/06/2022

10/06/2022 11:11 AM

Approved and released by:  
Project Manager I: **Kayla S. Holliday**



The electronic signature above is the equivalent of a handwritten signature.  
This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

# PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

## Case Narrative Terry Environmental Services, Inc. Lot Number: XI23013

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

### **VOCs by GCMS**

The following samples were diluted due to the nature of the sample matrix: XI23013-031, XI23013-032, XI23013-033, XI23013-034, XI23013-035. No corrective actions required as it is known that dilutions 5x and greater do not impact sample recoveries. The LOQ has been elevated to reflect the dilution.

The MS/MSD for batch 55496 associated with sample XI23013-031, recovered outside of acceptance criteria for tert-Butyl formate (TBF). All other QC passed, therefore, the data has been reported.

Insufficient sample volume was provided to perform matrix spike/matrix spike duplicate (MS/MSD) for analytical batch 55588. An LCS/LCSD was run in lieu of an MS/MSD.

### **EDB by Microextraction**

Sample XI23013-035 has been qualified with a "P" as the relative percent difference between the two GC columns exceed method criteria. Per SOP, the lesser of the two values has been reported.

# PACE ANALYTICAL SERVICES, LLC

## Sample Summary Terry Environmental Services, Inc. Lot Number: XI23013

| Sample Number | Sample ID        | Matrix  | Date Sampled    | Date Received |
|---------------|------------------|---------|-----------------|---------------|
| 001           | 12719 FB-1       | Aqueous | 09/19/2022 1225 | 09/22/2022    |
| 002           | 12719 MW-11      | Aqueous | 09/19/2022 1241 | 09/22/2022    |
| 003           | 12719 MW-11R     | Aqueous | 09/19/2022 1247 | 09/22/2022    |
| 004           | 12719 MW-10      | Aqueous | 09/19/2022 1256 | 09/22/2022    |
| 005           | 12719 MW-10R     | Aqueous | 09/19/2022 1330 | 09/22/2022    |
| 006           | 12719 MW-12      | Aqueous | 09/19/2022 1410 | 09/22/2022    |
| 007           | 12719 MW-13      | Aqueous | 09/19/2022 1420 | 09/22/2022    |
| 008           | 12719 MW-8R      | Aqueous | 09/19/2022 1440 | 09/22/2022    |
| 009           | 12719 MW-4       | Aqueous | 09/19/2022 1515 | 09/22/2022    |
| 010           | 12719 MW-22      | Aqueous | 09/19/2022 1540 | 09/22/2022    |
| 011           | 12719 MW-23      | Aqueous | 09/19/2022 1552 | 09/22/2022    |
| 012           | 12719 MW-15      | Aqueous | 09/19/2022 1603 | 09/22/2022    |
| 013           | 12719 MW-24      | Aqueous | 09/19/2022 1639 | 09/22/2022    |
| 014           | 12719 DW-3       | Aqueous | 09/19/2022 1715 | 09/22/2022    |
| 015           | 12719 MW-17      | Aqueous | 09/19/2022 1731 | 09/22/2022    |
| 016           | 12719 MW-18      | Aqueous | 09/19/2022 1747 | 09/22/2022    |
| 017           | 12719 FB-2       | Aqueous | 09/20/2022 0810 | 09/22/2022    |
| 018           | 12719 MW-19      | Aqueous | 09/20/2022 0823 | 09/22/2022    |
| 019           | 12719 MW-20      | Aqueous | 09/20/2022 0829 | 09/22/2022    |
| 020           | 12719 MW-21      | Aqueous | 09/20/2022 0837 | 09/22/2022    |
| 021           | 12719 SW-1       | Aqueous | 09/20/2022 0852 | 09/22/2022    |
| 022           | 12719 MW-14      | Aqueous | 09/20/2022 0920 | 09/22/2022    |
| 023           | 12719 DW-2       | Aqueous | 09/20/2022 0950 | 09/22/2022    |
| 024           | 12719 MW-25      | Aqueous | 09/20/2022 1010 | 09/22/2022    |
| 025           | 12719 MW-9       | Aqueous | 09/20/2022 1051 | 09/22/2022    |
| 026           | 12719 MW-2R      | Aqueous | 09/20/2022 1125 | 09/22/2022    |
| 027           | 12719 MW-7       | Aqueous | 09/20/2022 1133 | 09/22/2022    |
| 028           | 12719 MW-1D      | Aqueous | 09/20/2022 1206 | 09/22/2022    |
| 029           | 12719 MW-6       | Aqueous | 09/20/2022 1250 | 09/22/2022    |
| 030           | 12719 MW-5       | Aqueous | 09/20/2022 1358 | 09/22/2022    |
| 031           | 12719 MW-16      | Aqueous | 09/20/2022 1412 | 09/22/2022    |
| 032           | 12719 MW-16 dup  | Aqueous | 09/20/2022 1414 | 09/22/2022    |
| 033           | 12719 MW-3R      | Aqueous | 09/20/2022 1426 | 09/22/2022    |
| 034           | 12719 RW-3       | Aqueous | 09/20/2022 1440 | 09/22/2022    |
| 035           | 12719 RW-3 dup   | Aqueous | 09/20/2022 1442 | 09/22/2022    |
| 036           | 12719 Trip Blank | Aqueous | 09/20/2022      | 09/22/2022    |

(36 samples)

# PACE ANALYTICAL SERVICES, LLC

## Detection Summary Terry Environmental Services, Inc. Lot Number: XI23013

| Sample | Sample ID       | Matrix  | Parameter                   | Method | Result | Q | Units | Page |
|--------|-----------------|---------|-----------------------------|--------|--------|---|-------|------|
| 007    | 12719 MW-13     | Aqueous | Ethanol                     | 8260D  | 68     | J | ug/L  | 14   |
| 019    | 12719 MW-20     | Aqueous | Methyl tertiary butyl ether | 8260D  | 1.7    |   | ug/L  | 26   |
| 020    | 12719 MW-21     | Aqueous | tert-Amyl alcohol (TAA)     | 8260D  | 12     | J | ug/L  | 27   |
| 020    | 12719 MW-21     | Aqueous | Benzene                     | 8260D  | 1.7    |   | ug/L  | 27   |
| 020    | 12719 MW-21     | Aqueous | Diisopropyl ether (IPE)     | 8260D  | 1.2    |   | ug/L  | 27   |
| 020    | 12719 MW-21     | Aqueous | Methyl tertiary butyl ether | 8260D  | 10     |   | ug/L  | 27   |
| 021    | 12719 SW-1      | Aqueous | Ethanol                     | 8260D  | 290    |   | ug/L  | 28   |
| 021    | 12719 SW-1      | Aqueous | Methyl tertiary butyl ether | 8260D  | 1.7    |   | ug/L  | 28   |
| 024    | 12719 MW-25     | Aqueous | tert-Amyl alcohol (TAA)     | 8260D  | 35     |   | ug/L  | 31   |
| 024    | 12719 MW-25     | Aqueous | tert-Amyl methyl ether      | 8260D  | 1.0    | J | ug/L  | 31   |
| 024    | 12719 MW-25     | Aqueous | Benzene                     | 8260D  | 5.6    |   | ug/L  | 31   |
| 024    | 12719 MW-25     | Aqueous | Diisopropyl ether (IPE)     | 8260D  | 6.2    |   | ug/L  | 31   |
| 024    | 12719 MW-25     | Aqueous | Methyl tertiary butyl ether | 8260D  | 13     |   | ug/L  | 31   |
| 024    | 12719 MW-25     | Aqueous | tert-butyl alcohol (TBA)    | 8260D  | 8.2    | J | ug/L  | 31   |
| 024    | 12719 MW-25     | Aqueous | Xylenes (total)             | 8260D  | 2.0    |   | ug/L  | 31   |
| 026    | 12719 MW-2R     | Aqueous | Benzene                     | 8260D  | 14     |   | ug/L  | 33   |
| 026    | 12719 MW-2R     | Aqueous | Ethylbenzene                | 8260D  | 55     |   | ug/L  | 33   |
| 026    | 12719 MW-2R     | Aqueous | Naphthalene                 | 8260D  | 76     |   | ug/L  | 33   |
| 026    | 12719 MW-2R     | Aqueous | Toluene                     | 8260D  | 1.2    |   | ug/L  | 33   |
| 026    | 12719 MW-2R     | Aqueous | Xylenes (total)             | 8260D  | 280    |   | ug/L  | 33   |
| 027    | 12719 MW-7      | Aqueous | Xylenes (total)             | 8260D  | 1.3    |   | ug/L  | 34   |
| 029    | 12719 MW-6      | Aqueous | tert-Amyl alcohol (TAA)     | 8260D  | 12     | J | ug/L  | 36   |
| 029    | 12719 MW-6      | Aqueous | Benzene                     | 8260D  | 8.3    |   | ug/L  | 36   |
| 029    | 12719 MW-6      | Aqueous | Methyl tertiary butyl ether | 8260D  | 0.97   | J | ug/L  | 36   |
| 029    | 12719 MW-6      | Aqueous | Naphthalene                 | 8260D  | 13     |   | ug/L  | 36   |
| 029    | 12719 MW-6      | Aqueous | tert-butyl alcohol (TBA)    | 8260D  | 68     |   | ug/L  | 36   |
| 029    | 12719 MW-6      | Aqueous | Xylenes (total)             | 8260D  | 28     |   | ug/L  | 36   |
| 031    | 12719 MW-16     | Aqueous | tert-Amyl alcohol (TAA)     | 8260D  | 660    |   | ug/L  | 38   |
| 031    | 12719 MW-16     | Aqueous | Benzene                     | 8260D  | 970    |   | ug/L  | 38   |
| 031    | 12719 MW-16     | Aqueous | Diisopropyl ether (IPE)     | 8260D  | 7.0    | J | ug/L  | 38   |
| 031    | 12719 MW-16     | Aqueous | Methyl tertiary butyl ether | 8260D  | 52     |   | ug/L  | 38   |
| 031    | 12719 MW-16     | Aqueous | Naphthalene                 | 8260D  | 75     |   | ug/L  | 38   |
| 031    | 12719 MW-16     | Aqueous | tert-butyl alcohol (TBA)    | 8260D  | 89     | J | ug/L  | 38   |
| 031    | 12719 MW-16     | Aqueous | Toluene                     | 8260D  | 6.3    | J | ug/L  | 38   |
| 031    | 12719 MW-16     | Aqueous | Xylenes (total)             | 8260D  | 390    |   | ug/L  | 38   |
| 032    | 12719 MW-16 dup | Aqueous | tert-Amyl alcohol (TAA)     | 8260D  | 670    |   | ug/L  | 39   |
| 032    | 12719 MW-16 dup | Aqueous | Benzene                     | 8260D  | 1000   |   | ug/L  | 39   |
| 032    | 12719 MW-16 dup | Aqueous | Diisopropyl ether (IPE)     | 8260D  | 7.8    | J | ug/L  | 39   |
| 032    | 12719 MW-16 dup | Aqueous | Methyl tertiary butyl ether | 8260D  | 58     |   | ug/L  | 39   |
| 032    | 12719 MW-16 dup | Aqueous | Naphthalene                 | 8260D  | 83     |   | ug/L  | 39   |
| 032    | 12719 MW-16 dup | Aqueous | tert-butyl alcohol (TBA)    | 8260D  | 86     | J | ug/L  | 39   |
| 032    | 12719 MW-16 dup | Aqueous | Toluene                     | 8260D  | 6.8    | J | ug/L  | 39   |
| 032    | 12719 MW-16 dup | Aqueous | Xylenes (total)             | 8260D  | 420    |   | ug/L  | 39   |
| 033    | 12719 MW-3R     | Aqueous | tert-Amyl alcohol (TAA)     | 8260D  | 280    |   | ug/L  | 40   |
| 033    | 12719 MW-3R     | Aqueous | tert-Amyl methyl ether      | 8260D  | 16     | J | ug/L  | 40   |

## Detection Summary (Continued)

Lot Number: XI23013

| Sample | Sample ID      | Matrix  | Parameter                   | Method | Result | Q | Units | Page |
|--------|----------------|---------|-----------------------------|--------|--------|---|-------|------|
| 033    | 12719 MW-3R    | Aqueous | Benzene                     | 8260D  | 550    |   | ug/L  | 40   |
| 033    | 12719 MW-3R    | Aqueous | Diisopropyl ether (IPE)     | 8260D  | 120    |   | ug/L  | 40   |
| 033    | 12719 MW-3R    | Aqueous | Ethylbenzene                | 8260D  | 330    |   | ug/L  | 40   |
| 033    | 12719 MW-3R    | Aqueous | Methyl tertiary butyl ether | 8260D  | 54     |   | ug/L  | 40   |
| 033    | 12719 MW-3R    | Aqueous | Naphthalene                 | 8260D  | 56     |   | ug/L  | 40   |
| 033    | 12719 MW-3R    | Aqueous | tert-butyl alcohol (TBA)    | 8260D  | 92     | J | ug/L  | 40   |
| 033    | 12719 MW-3R    | Aqueous | Toluene                     | 8260D  | 59     |   | ug/L  | 40   |
| 033    | 12719 MW-3R    | Aqueous | Xylenes (total)             | 8260D  | 430    |   | ug/L  | 40   |
| 034    | 12719 RW-3     | Aqueous | tert-Amyl alcohol (TAA)     | 8260D  | 1000   |   | ug/L  | 41   |
| 034    | 12719 RW-3     | Aqueous | tert-Amyl methyl ether      | 8260D  | 31     | J | ug/L  | 41   |
| 034    | 12719 RW-3     | Aqueous | Benzene                     | 8260D  | 2500   |   | ug/L  | 41   |
| 034    | 12719 RW-3     | Aqueous | Diisopropyl ether (IPE)     | 8260D  | 250    |   | ug/L  | 41   |
| 034    | 12719 RW-3     | Aqueous | Ethylbenzene                | 8260D  | 550    |   | ug/L  | 41   |
| 034    | 12719 RW-3     | Aqueous | Methyl tertiary butyl ether | 8260D  | 110    |   | ug/L  | 41   |
| 034    | 12719 RW-3     | Aqueous | Naphthalene                 | 8260D  | 140    |   | ug/L  | 41   |
| 034    | 12719 RW-3     | Aqueous | tert-butyl alcohol (TBA)    | 8260D  | 300    | J | ug/L  | 41   |
| 034    | 12719 RW-3     | Aqueous | Toluene                     | 8260D  | 230    |   | ug/L  | 41   |
| 034    | 12719 RW-3     | Aqueous | Xylenes (total)             | 8260D  | 1800   |   | ug/L  | 41   |
| 035    | 12719 RW-3 dup | Aqueous | tert-Amyl alcohol (TAA)     | 8260D  | 1200   |   | ug/L  | 42   |
| 035    | 12719 RW-3 dup | Aqueous | tert-Amyl methyl ether      | 8260D  | 33     | J | ug/L  | 42   |
| 035    | 12719 RW-3 dup | Aqueous | Benzene                     | 8260D  | 2500   |   | ug/L  | 42   |
| 035    | 12719 RW-3 dup | Aqueous | Diisopropyl ether (IPE)     | 8260D  | 250    |   | ug/L  | 42   |
| 035    | 12719 RW-3 dup | Aqueous | Ethylbenzene                | 8260D  | 600    |   | ug/L  | 42   |
| 035    | 12719 RW-3 dup | Aqueous | Methyl tertiary butyl ether | 8260D  | 150    |   | ug/L  | 42   |
| 035    | 12719 RW-3 dup | Aqueous | Naphthalene                 | 8260D  | 160    |   | ug/L  | 42   |
| 035    | 12719 RW-3 dup | Aqueous | tert-butyl alcohol (TBA)    | 8260D  | 310    | J | ug/L  | 42   |
| 035    | 12719 RW-3 dup | Aqueous | Toluene                     | 8260D  | 230    |   | ug/L  | 42   |
| 035    | 12719 RW-3 dup | Aqueous | Xylenes (total)             | 8260D  | 1800   |   | ug/L  | 42   |

(73 detections)

Description: 12719 FB-1

Matrix: Aqueous

Date Sampled: 09/19/2022 1225

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1224 | CJJ     |           | 55487 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 109               | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 100               | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 96                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/29/2022 2059 | SAF     | 09/27/2022 2234 | 55437  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0049 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 102               | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-11

Matrix: Aqueous

Date Sampled: 09/19/2022 1241

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1248 | CJJ     |           | 55487 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 109               | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 102               | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 97                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/29/2022 2121 | SAF     | 09/27/2022 2234 | 55437  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0048 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 105               | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-11R

Matrix: Aqueous

Date Sampled: 09/19/2022 1247

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1313 | CJJ     |           | 55487 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 109               | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 100               | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 97                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/29/2022 2142 | SAF     | 09/27/2022 2234 | 55437  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0049 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 105               | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com



Description: 12719 MW-10

Matrix: Aqueous

Date Sampled: 09/19/2022 1256

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1338 | CJJ     |           | 55487 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 108               | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 99                | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 93                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/29/2022 2153 | SAF     | 09/27/2022 2234 | 55437  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0048 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 99                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-10R

Matrix: Aqueous

Date Sampled: 09/19/2022 1330

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1402 | CJJ     |           | 55487 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 108               | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 100               | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 95                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/29/2022 2204 | SAF     | 09/27/2022 2234 | 55437  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.020           | 0.0050 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 94                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-12

Matrix: Aqueous

Date Sampled: 09/19/2022 1410

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1426 | CJJ     |           | 55487 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 111               | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 101               | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 97                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/29/2022 2214 | SAF     | 09/27/2022 2234 | 55437  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0048 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 122               | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-13

Matrix: Aqueous

Date Sampled: 09/19/2022 1420

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst  | Prep Date  | Batch     |             |          |
|------------------------------------|-------------|-------------------|-------------------|-----------------|----------|------------|-----------|-------------|----------|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1451 | CJJ      |            | 55487     |             |          |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q        | LOQ        | DL        | Units       | Run      |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |          | 20         | 8.0       | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |          | 10         | 0.42      | ug/L        | 1        |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |          | 1.0        | 0.40      | ug/L        | 1        |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |          | 5.0        | 2.0       | ug/L        | 1        |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |          | 1.0        | 0.40      | ug/L        | 1        |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |          | 1.0        | 0.40      | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |          | 20         | 8.0       | ug/L        | 1        |
| <b>Ethanol</b>                     |             | <b>64-17-5</b>    | <b>8260D</b>      | <b>68</b>       | <b>J</b> | <b>100</b> | <b>52</b> | <b>ug/L</b> | <b>1</b> |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |          | 1.0        | 0.40      | ug/L        | 1        |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |          | 1.0        | 0.40      | ug/L        | 1        |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |          | 1.0        | 0.40      | ug/L        | 1        |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |          | 1.0        | 0.40      | ug/L        | 1        |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |          | 20         | 8.0       | ug/L        | 1        |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |          | 1.0        | 0.40      | ug/L        | 1        |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |          | 1.0        | 0.40      | ug/L        | 1        |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |          |            |           |             |          |
| 1,2-Dichloroethane-d4              |             | 110               | 70-130            |                 |          |            |           |             |          |
| Toluene-d8                         |             | 101               | 70-130            |                 |          |            |           |             |          |
| Bromofluorobenzene                 |             | 95                | 70-130            |                 |          |            |           |             |          |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/29/2022 2225 | SAF     | 09/27/2022 2234 | 55437  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0048 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 115               | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-8R

Matrix: Aqueous

Date Sampled: 09/19/2022 1440

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1230 | BLM     |           | 55506 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 92                | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 99                | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 87                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/29/2022 2236 | SAF     | 09/27/2022 2234 | 55437  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.020           | 0.0049 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 114               | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-4

Matrix: Aqueous

Date Sampled: 09/19/2022 1515

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1252 | BLM     |           | 55506 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 93                | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 101               | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 90                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/29/2022 2247 | SAF     | 09/27/2022 2234 | 55437  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0049 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 85                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-22

Matrix: Aqueous

Date Sampled: 09/19/2022 1540

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1314 | BLM     |           | 55506 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 92                | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 99                | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 90                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/29/2022 2257 | SAF     | 09/27/2022 2234 | 55437  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0048 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 95                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-23

Matrix: Aqueous

Date Sampled: 09/19/2022 1552

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1337 | BLM     |           | 55506 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 90               | 70-130            |
| Toluene-d8            |   | 99               | 70-130            |
| Bromofluorobenzene    |   | 90               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/29/2022 2308 | SAF     | 09/27/2022 2234 | 55437  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0049 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 76                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com



Description: 12719 MW-15

Matrix: Aqueous

Date Sampled: 09/19/2022 1603

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1359 | BLM     |           | 55506 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 91                | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 98                | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 87                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/29/2022 2319 | SAF     | 09/27/2022 2234 | 55437  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.020           | 0.0049 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 118               | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-24

Matrix: Aqueous

Date Sampled: 09/19/2022 1639

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1421 | BLM     |           | 55506 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 93                | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 99                | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 89                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/29/2022 2330 | SAF     | 09/27/2022 2234 | 55437  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0048 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 89                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 DW-3

Matrix: Aqueous

Date Sampled: 09/19/2022 1715

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1444 | BLM     |           | 55506 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 92                | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 98                | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 90                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/29/2022 2341 | SAF     | 09/27/2022 2234 | 55437  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.020           | 0.0050 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 104               | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-17

Matrix: Aqueous

Date Sampled: 09/19/2022 1731

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260D             | 1        | 09/28/2022 1506 | BLM     |           | 55506 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260D             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260D             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260D             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260D             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260D             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260D             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 93               | 70-130            |
| Toluene-d8            |   | 98               | 70-130            |
| Bromofluorobenzene    |   | 90               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/29/2022 2351 | SAF     | 09/27/2022 2234 | 55437 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.0048 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 101              | 57-137            |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-18

Matrix: Aqueous

Date Sampled: 09/19/2022 1747

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1528 | BLM     |           | 55506 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 93               | 70-130            |
| Toluene-d8            |   | 98               | 70-130            |
| Bromofluorobenzene    |   | 88               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/30/2022 0002 | SAF     | 09/27/2022 2234 | 55437  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.020           | 0.0049 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 99                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit      Q = Surrogate failure  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)  
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 FB-2

Matrix: Aqueous

Date Sampled: 09/20/2022 0810

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1550 | BLM     |           | 55506 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 95                | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 99                | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 89                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/30/2022 0222 | SAF     | 09/28/2022 2216 | 55544  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.020           | 0.0049 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 99                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-19

Matrix: Aqueous

Date Sampled: 09/20/2022 0823

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1612 | BLM     |           | 55506 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 93                | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 101               | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 91                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/30/2022 0243 | SAF     | 09/28/2022 2216 | 55544  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.020           | 0.0049 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 96                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-20

Matrix: Aqueous

Date Sampled: 09/20/2022 0829

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date  | Batch       |             |          |
|---|-------------|-------------------|-------------------|-----------------|---------|------------|-------------|-------------|----------|
| 1   | 5030B       | 8260D             | 1                 | 09/28/2022 1634 | BLM     |            | 55506       |             |          |
| Parameter                                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ        | DL          | Units       | Run      |
| tert-Amyl alcohol (TAA)                   |             | 75-85-4           | 8260D             | ND              |         | 20         | 8.0         | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)             |             | 994-05-8          | 8260D             | ND              |         | 10         | 0.42        | ug/L        | 1        |
| Benzene                                   |             | 71-43-2           | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| tert-Butyl formate (TBF)                  |             | 762-75-4          | 8260D             | ND              |         | 5.0        | 2.0         | ug/L        | 1        |
| 1,2-Dichloroethane                        |             | 107-06-2          | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| Diisopropyl ether (IPE)                   |             | 108-20-3          | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol                    |             | 624-95-3          | 8260D             | ND              |         | 20         | 8.0         | ug/L        | 1        |
| Ethanol                                   |             | 64-17-5           | 8260D             | ND              |         | 100        | 52          | ug/L        | 1        |
| Ethylbenzene                              |             | 100-41-4          | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| Ethyl-tert-butyl ether (ETBE)             |             | 637-92-3          | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| <b>Methyl tertiary butyl ether (MTBE)</b> |             | <b>1634-04-4</b>  | <b>8260D</b>      | <b>1.7</b>      |         | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Naphthalene                               |             | 91-20-3           | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| tert-butyl alcohol (TBA)                  |             | 75-65-0           | 8260D             | ND              |         | 20         | 8.0         | ug/L        | 1        |
| Toluene                                   |             | 108-88-3          | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| Xylenes (total)                           |             | 1330-20-7         | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| Surrogate                                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |            |             |             |          |
| 1,2-Dichloroethane-d4                     |             | 94                | 70-130            |                 |         |            |             |             |          |
| Toluene-d8                                |             | 99                | 70-130            |                 |         |            |             |             |          |
| Bromofluorobenzene                        |             | 89                | 70-130            |                 |         |            |             |             |          |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/30/2022 0254 | SAF     | 09/28/2022 2216 | 55544  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0049 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 101               | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com



Description: 12719 MW-21

Matrix: Aqueous

Date Sampled: 09/20/2022 0837

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date  | Batch       |             |          |
|---|-------------|-------------------|-------------------|-----------------|---------|------------|-------------|-------------|----------|
| 1   | 5030B       | 8260D             | 1                 | 09/28/2022 1515 | CJJ     |            | 55487       |             |          |
| Parameter                                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ        | DL          | Units       | Run      |
| tert-Amyl alcohol (TAA)                   |             | 75-85-4           | 8260D             | 12              | J       | 20         | 8.0         | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)             |             | 994-05-8          | 8260D             | ND              |         | 10         | 0.42        | ug/L        | 1        |
| <b>Benzene</b>                            |             | <b>71-43-2</b>    | <b>8260D</b>      | <b>1.7</b>      |         | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| tert-Butyl formate (TBF)                  |             | 762-75-4          | 8260D             | ND              |         | 5.0        | 2.0         | ug/L        | 1        |
| 1,2-Dichloroethane                        |             | 107-06-2          | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| <b>Diisopropyl ether (IPE)</b>            |             | <b>108-20-3</b>   | <b>8260D</b>      | <b>1.2</b>      |         | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| 3,3-Dimethyl-1-butanol                    |             | 624-95-3          | 8260D             | ND              |         | 20         | 8.0         | ug/L        | 1        |
| Ethanol                                   |             | 64-17-5           | 8260D             | ND              |         | 100        | 52          | ug/L        | 1        |
| Ethylbenzene                              |             | 100-41-4          | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| Ethyl-tert-butyl ether (ETBE)             |             | 637-92-3          | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| <b>Methyl tertiary butyl ether (MTBE)</b> |             | <b>1634-04-4</b>  | <b>8260D</b>      | <b>10</b>       |         | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Naphthalene                               |             | 91-20-3           | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| tert-butyl alcohol (TBA)                  |             | 75-65-0           | 8260D             | ND              |         | 20         | 8.0         | ug/L        | 1        |
| Toluene                                   |             | 108-88-3          | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| Xylenes (total)                           |             | 1330-20-7         | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| Surrogate                                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |            |             |             |          |
| 1,2-Dichloroethane-d4                     |             | 111               | 70-130            |                 |         |            |             |             |          |
| Toluene-d8                                |             | 101               | 70-130            |                 |         |            |             |             |          |
| Bromofluorobenzene                        |             | 98                | 70-130            |                 |         |            |             |             |          |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/30/2022 0305 | SAF     | 09/28/2022 2216 | 55544  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0049 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 90                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 SW-1

Matrix: Aqueous

Date Sampled: 09/20/2022 0852

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date  | Batch       |             |          |
|---|-------------|-------------------|-------------------|-----------------|---------|------------|-------------|-------------|----------|
| 1   | 5030B       | 8260D             | 1                 | 09/29/2022 0021 | SDC     |            | 55588       |             |          |
| Parameter                                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ        | DL          | Units       | Run      |
| tert-Amyl alcohol (TAA)                   |             | 75-85-4           | 8260D             | ND              |         | 20         | 8.0         | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)             |             | 994-05-8          | 8260D             | ND              |         | 10         | 0.42        | ug/L        | 1        |
| Benzene                                   |             | 71-43-2           | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| tert-Butyl formate (TBF)                  |             | 762-75-4          | 8260D             | ND              |         | 5.0        | 2.0         | ug/L        | 1        |
| 1,2-Dichloroethane                        |             | 107-06-2          | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| Diisopropyl ether (IPE)                   |             | 108-20-3          | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol                    |             | 624-95-3          | 8260D             | ND              |         | 20         | 8.0         | ug/L        | 1        |
| <b>Ethanol</b>                            |             | <b>64-17-5</b>    | <b>8260D</b>      | <b>290</b>      |         | <b>100</b> | <b>52</b>   | <b>ug/L</b> | <b>1</b> |
| Ethylbenzene                              |             | 100-41-4          | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| Ethyl-tert-butyl ether (ETBE)             |             | 637-92-3          | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| <b>Methyl tertiary butyl ether (MTBE)</b> |             | <b>1634-04-4</b>  | <b>8260D</b>      | <b>1.7</b>      |         | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Naphthalene                               |             | 91-20-3           | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| tert-butyl alcohol (TBA)                  |             | 75-65-0           | 8260D             | ND              |         | 20         | 8.0         | ug/L        | 1        |
| Toluene                                   |             | 108-88-3          | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| Xylenes (total)                           |             | 1330-20-7         | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| Surrogate                                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |            |             |             |          |
| 1,2-Dichloroethane-d4                     |             | 92                | 70-130            |                 |         |            |             |             |          |
| Toluene-d8                                |             | 99                | 70-130            |                 |         |            |             |             |          |
| Bromofluorobenzene                        |             | 88                | 70-130            |                 |         |            |             |             |          |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/30/2022 0316 | SAF     | 09/28/2022 2216 | 55544  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.020           | 0.0049 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 100               | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-14

Matrix: Aqueous

Date Sampled: 09/20/2022 0920

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/29/2022 0043 | SDC     |           | 55588 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 93                | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 102               | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 92                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/30/2022 0326 | SAF     | 09/28/2022 2216 | 55544  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0048 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 86                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 DW-2

Matrix: Aqueous

Date Sampled: 09/20/2022 0950

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1540 | CJJ     |           | 55487 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 110               | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 99                | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 94                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/30/2022 0337 | SAF     | 09/28/2022 2216 | 55544  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0048 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 95                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-25

Matrix: Aqueous

Date Sampled: 09/20/2022 1010

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1605 | CJJ     |           | 55487 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | 35              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | 1.0             | J       | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | 5.6             |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | 6.2             |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | 13              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | 8.2             | J       | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | 2.0             |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 111               | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 100               | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 96                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/30/2022 0348 | SAF     | 09/28/2022 2216 | 55544  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0049 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 93                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-9

Matrix: Aqueous

Date Sampled: 09/20/2022 1051

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1630 | CJJ     |           | 55487 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 112               | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 100               | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 96                | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/30/2022 0359 | SAF     | 09/28/2022 2216 | 55544  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.020           | 0.0051 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 87                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-2R

Matrix: Aqueous

Date Sampled: 09/20/2022 1125

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date  | Batch       |             |          |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|------------|-------------|-------------|----------|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1212 | JWO     |            | 55496       |             |          |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ        | DL          | Units       | Run      |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20         | 8.0         | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10         | 0.42        | ug/L        | 1        |
| <b>Benzene</b>                     |             | <b>71-43-2</b>    | <b>8260D</b>      | <b>14</b>       |         | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0        | 2.0         | ug/L        | 1        |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20         | 8.0         | ug/L        | 1        |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100        | 52          | ug/L        | 1        |
| <b>Ethylbenzene</b>                |             | <b>100-41-4</b>   | <b>8260D</b>      | <b>55</b>       |         | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0        | 0.40        | ug/L        | 1        |
| <b>Naphthalene</b>                 |             | <b>91-20-3</b>    | <b>8260D</b>      | <b>76</b>       |         | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20         | 8.0         | ug/L        | 1        |
| <b>Toluene</b>                     |             | <b>108-88-3</b>   | <b>8260D</b>      | <b>1.2</b>      |         | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| <b>Xylenes (total)</b>             |             | <b>1330-20-7</b>  | <b>8260D</b>      | <b>280</b>      |         | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |            |             |             |          |
| 1,2-Dichloroethane-d4              |             | 98                | 70-130            |                 |         |            |             |             |          |
| Toluene-d8                         |             | 103               | 70-130            |                 |         |            |             |             |          |
| Bromofluorobenzene                 |             | 104               | 70-130            |                 |         |            |             |             |          |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/30/2022 0409 | SAF     | 09/28/2022 2216 | 55544  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0048 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 70                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-7

Matrix: Aqueous

Date Sampled: 09/20/2022 1133

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260D             | 1        | 09/28/2022 1235 | JWO     |           | 55496 |
| 2   | 5030B       | 8260D             | 1        | 10/02/2022 1401 | JMM2    |           | 55850 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260D             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260D             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260D             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260D             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260D             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 2   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260D             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260D             | 1.3    |   | 1.0 | 0.40 | ug/L  | 2   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits | Q | Run 2 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 98               | 70-130            |   | 106              | 70-130            |
| Toluene-d8            |   | 103              | 70-130            |   | 101              | 70-130            |
| Bromofluorobenzene    |   | 99               | 70-130            |   | 99               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/30/2022 0420 | SAF     | 09/28/2022 2216 | 55544 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.0048 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 94               | 57-137            |

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit    Q = Surrogate failure  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL    L = LCS/LCSD failure  
 H = Out of holding time    W = Reported on wet weight basis    S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)  
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com



Description: 12719 MW-1D

Matrix: Aqueous

Date Sampled: 09/20/2022 1206

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260D             | 1        | 09/28/2022 1258 | JWO     |           | 55496 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260D             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260D             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260D             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260D             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260D             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260D             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 98               | 70-130            |
| Toluene-d8            |   | 105              | 70-130            |
| Bromofluorobenzene    |   | 101              | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/30/2022 0431 | SAF     | 09/28/2022 2216 | 55544 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.0048 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 100              | 57-137            |

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit      Q = Surrogate failure  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

Description: 12719 MW-6

Matrix: Aqueous

Date Sampled: 09/20/2022 1250

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst  | Prep Date  | Batch       |             |          |
|---|-------------|-------------------|-------------------|-----------------|----------|------------|-------------|-------------|----------|
| 1   | 5030B       | 8260D             | 1                 | 09/28/2022 1735 | JWO      |            | 55496       |             |          |
| Parameter                                 |             | CAS Number        | Analytical Method | Result          | Q        | LOQ        | DL          | Units       | Run      |
| tert-Amyl alcohol (TAA)                   |             | 75-85-4           | 8260D             | 12              | J        | 20         | 8.0         | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)             |             | 994-05-8          | 8260D             | ND              |          | 10         | 0.42        | ug/L        | 1        |
| <b>Benzene</b>                            |             | <b>71-43-2</b>    | <b>8260D</b>      | <b>8.3</b>      |          | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| tert-Butyl formate (TBF)                  |             | 762-75-4          | 8260D             | ND              |          | 5.0        | 2.0         | ug/L        | 1        |
| 1,2-Dichloroethane                        |             | 107-06-2          | 8260D             | ND              |          | 1.0        | 0.40        | ug/L        | 1        |
| Diisopropyl ether (IPE)                   |             | 108-20-3          | 8260D             | ND              |          | 1.0        | 0.40        | ug/L        | 1        |
| 3,3-Dimethyl-1-butanol                    |             | 624-95-3          | 8260D             | ND              |          | 20         | 8.0         | ug/L        | 1        |
| Ethanol                                   |             | 64-17-5           | 8260D             | ND              |          | 100        | 52          | ug/L        | 1        |
| Ethylbenzene                              |             | 100-41-4          | 8260D             | ND              |          | 1.0        | 0.40        | ug/L        | 1        |
| Ethyl-tert-butyl ether (ETBE)             |             | 637-92-3          | 8260D             | ND              |          | 1.0        | 0.40        | ug/L        | 1        |
| <b>Methyl tertiary butyl ether (MTBE)</b> |             | <b>1634-04-4</b>  | <b>8260D</b>      | <b>0.97</b>     | <b>J</b> | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| <b>Naphthalene</b>                        |             | <b>91-20-3</b>    | <b>8260D</b>      | <b>13</b>       |          | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| tert-butyl alcohol (TBA)                  |             | 75-65-0           | 8260D             | 68              |          | 20         | 8.0         | ug/L        | 1        |
| Toluene                                   |             | 108-88-3          | 8260D             | ND              |          | 1.0        | 0.40        | ug/L        | 1        |
| <b>Xylenes (total)</b>                    |             | <b>1330-20-7</b>  | <b>8260D</b>      | <b>28</b>       |          | <b>1.0</b> | <b>0.40</b> | <b>ug/L</b> | <b>1</b> |
| Surrogate                                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |          |            |             |             |          |
| 1,2-Dichloroethane-d4                     |             | 99                | 70-130            |                 |          |            |             |             |          |
| Toluene-d8                                |             | 103               | 70-130            |                 |          |            |             |             |          |
| Bromofluorobenzene                        |             | 100               | 70-130            |                 |          |            |             |             |          |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/30/2022 0441 | SAF     | 09/28/2022 2216 | 55544  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0049 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 82                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-5

Matrix: Aqueous

Date Sampled: 09/20/2022 1358

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260D             | 1        | 09/28/2022 1322 | JWO     |           | 55496 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260D             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260D             | ND     |   | 10  | 0.42 | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260D             | ND     |   | 5.0 | 2.0  | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260D             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260D             | ND     |   | 100 | 52   | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260D             | ND     |   | 20  | 8.0  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260D             | ND     |   | 1.0 | 0.40 | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 98               | 70-130            |
| Toluene-d8            |   | 105              | 70-130            |
| Bromofluorobenzene    |   | 98               | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/30/2022 0452 | SAF     | 09/28/2022 2216 | 55544 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     |   | 0.019 | 0.0049 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 102              | 57-137            |

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit      Q = Surrogate failure  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)  
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-16

Matrix: Aqueous

Date Sampled: 09/20/2022 1412

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch      |             |          |  |
|---|-------------|-------------------|-------------------|-----------------|---------|-----------|------------|-------------|----------|--|
| 1   | 5030B       | 8260D             | 10                | 09/28/2022 1540 | JWO     |           | 55496      |             |          |  |
| Parameter                                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL         | Units       | Run      |  |
| tert-Amyl alcohol (TAA)                   |             | 75-85-4           | 8260D             | 660             |         | 200       | 80         | ug/L        | 1        |  |
| tert-Amyl methyl ether (TAME)             |             | 994-05-8          | 8260D             | ND              |         | 100       | 4.2        | ug/L        | 1        |  |
| <b>Benzene</b>                            |             | <b>71-43-2</b>    | <b>8260D</b>      | <b>970</b>      |         | <b>10</b> | <b>4.0</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-Butyl formate (TBF)                  |             | 762-75-4          | 8260D             | ND S            |         | 50        | 20         | ug/L        | 1        |  |
| 1,2-Dichloroethane                        |             | 107-06-2          | 8260D             | ND              |         | 10        | 4.0        | ug/L        | 1        |  |
| <b>Diisopropyl ether (IPE)</b>            |             | <b>108-20-3</b>   | <b>8260D</b>      | <b>7.0 J</b>    |         | <b>10</b> | <b>4.0</b> | <b>ug/L</b> | <b>1</b> |  |
| 3,3-Dimethyl-1-butanol                    |             | 624-95-3          | 8260D             | ND              |         | 200       | 80         | ug/L        | 1        |  |
| Ethanol                                   |             | 64-17-5           | 8260D             | ND              |         | 1000      | 520        | ug/L        | 1        |  |
| Ethylbenzene                              |             | 100-41-4          | 8260D             | ND              |         | 10        | 4.0        | ug/L        | 1        |  |
| Ethyl-tert-butyl ether (ETBE)             |             | 637-92-3          | 8260D             | ND              |         | 10        | 4.0        | ug/L        | 1        |  |
| <b>Methyl tertiary butyl ether (MTBE)</b> |             | <b>1634-04-4</b>  | <b>8260D</b>      | <b>52</b>       |         | <b>10</b> | <b>4.0</b> | <b>ug/L</b> | <b>1</b> |  |
| <b>Naphthalene</b>                        |             | <b>91-20-3</b>    | <b>8260D</b>      | <b>75</b>       |         | <b>10</b> | <b>4.0</b> | <b>ug/L</b> | <b>1</b> |  |
| tert-butyl alcohol (TBA)                  |             | 75-65-0           | 8260D             | 89 J            |         | 200       | 80         | ug/L        | 1        |  |
| Toluene                                   |             | 108-88-3          | 8260D             | 6.3 J           |         | 10        | 4.0        | ug/L        | 1        |  |
| Xylenes (total)                           |             | 1330-20-7         | 8260D             | 390             |         | 10        | 4.0        | ug/L        | 1        |  |
| Surrogate                                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |            |             |          |  |
| 1,2-Dichloroethane-d4                     |             | 99                | 70-130            |                 |         |           |            |             |          |  |
| Toluene-d8                                |             | 104               | 70-130            |                 |         |           |            |             |          |  |
| Bromofluorobenzene                        |             | 101               | 70-130            |                 |         |           |            |             |          |  |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |  |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|--|
| 1                         | 8011        | 8011              | 1                 | 09/30/2022 0503 | SAF     | 09/28/2022 2216 | 55544  |       |     |  |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |  |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.020           | 0.0050 | ug/L  | 1   |  |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |  |
| 1,1,1,2-Tetrachloroethane |             | 61                | 57-137            |                 |         |                 |        |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-16 dup

Matrix: Aqueous

Date Sampled: 09/20/2022 1414

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch      |             |          |
|---|-------------|-------------------|-------------------|-----------------|---------|-----------|------------|-------------|----------|
| 1   | 5030B       | 8260D             | 10                | 09/28/2022 1603 | JWO     |           | 55496      |             |          |
| Parameter                                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL         | Units       | Run      |
| tert-Amyl alcohol (TAA)                   |             | 75-85-4           | 8260D             | 670             |         | 200       | 80         | ug/L        | 1        |
| tert-Amyl methyl ether (TAME)             |             | 994-05-8          | 8260D             | ND              |         | 100       | 4.2        | ug/L        | 1        |
| <b>Benzene</b>                            |             | <b>71-43-2</b>    | <b>8260D</b>      | <b>1000</b>     |         | <b>10</b> | <b>4.0</b> | <b>ug/L</b> | <b>1</b> |
| tert-Butyl formate (TBF)                  |             | 762-75-4          | 8260D             | ND              |         | 50        | 20         | ug/L        | 1        |
| 1,2-Dichloroethane                        |             | 107-06-2          | 8260D             | ND              |         | 10        | 4.0        | ug/L        | 1        |
| <b>Diisopropyl ether (IPE)</b>            |             | <b>108-20-3</b>   | <b>8260D</b>      | <b>7.8 J</b>    |         | <b>10</b> | <b>4.0</b> | <b>ug/L</b> | <b>1</b> |
| 3,3-Dimethyl-1-butanol                    |             | 624-95-3          | 8260D             | ND              |         | 200       | 80         | ug/L        | 1        |
| Ethanol                                   |             | 64-17-5           | 8260D             | ND              |         | 1000      | 520        | ug/L        | 1        |
| Ethylbenzene                              |             | 100-41-4          | 8260D             | ND              |         | 10        | 4.0        | ug/L        | 1        |
| Ethyl-tert-butyl ether (ETBE)             |             | 637-92-3          | 8260D             | ND              |         | 10        | 4.0        | ug/L        | 1        |
| <b>Methyl tertiary butyl ether (MTBE)</b> |             | <b>1634-04-4</b>  | <b>8260D</b>      | <b>58</b>       |         | <b>10</b> | <b>4.0</b> | <b>ug/L</b> | <b>1</b> |
| <b>Naphthalene</b>                        |             | <b>91-20-3</b>    | <b>8260D</b>      | <b>83</b>       |         | <b>10</b> | <b>4.0</b> | <b>ug/L</b> | <b>1</b> |
| tert-butyl alcohol (TBA)                  |             | 75-65-0           | 8260D             | 86 J            |         | 200       | 80         | ug/L        | 1        |
| Toluene                                   |             | 108-88-3          | 8260D             | 6.8 J           |         | 10        | 4.0        | ug/L        | 1        |
| Xylenes (total)                           |             | 1330-20-7         | 8260D             | 420             |         | 10        | 4.0        | ug/L        | 1        |
| Surrogate                                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |            |             |          |
| 1,2-Dichloroethane-d4                     |             | 99                | 70-130            |                 |         |           |            |             |          |
| Toluene-d8                                |             | 103               | 70-130            |                 |         |           |            |             |          |
| Bromofluorobenzene                        |             | 100               | 70-130            |                 |         |           |            |             |          |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/30/2022 0514 | SAF     | 09/28/2022 2216 | 55544  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.019           | 0.0048 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 66                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 MW-3R

Matrix: Aqueous

Date Sampled: 09/20/2022 1426

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |  |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|--|
| 1                                  | 5030B       | 8260D             | 10                | 09/28/2022 1626 | JWO     |           | 55496 |       |     |  |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |  |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | 280             |         | 200       | 80    | ug/L  | 1   |  |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | 16              | J       | 100       | 4.2   | ug/L  | 1   |  |
| Benzene                            |             | 71-43-2           | 8260D             | 550             |         | 10        | 4.0   | ug/L  | 1   |  |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 50        | 20    | ug/L  | 1   |  |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 10        | 4.0   | ug/L  | 1   |  |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | 120             |         | 10        | 4.0   | ug/L  | 1   |  |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 200       | 80    | ug/L  | 1   |  |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 1000      | 520   | ug/L  | 1   |  |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | 330             |         | 10        | 4.0   | ug/L  | 1   |  |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 10        | 4.0   | ug/L  | 1   |  |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | 54              |         | 10        | 4.0   | ug/L  | 1   |  |
| Naphthalene                        |             | 91-20-3           | 8260D             | 56              |         | 10        | 4.0   | ug/L  | 1   |  |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | 92              | J       | 200       | 80    | ug/L  | 1   |  |
| Toluene                            |             | 108-88-3          | 8260D             | 59              |         | 10        | 4.0   | ug/L  | 1   |  |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | 430             |         | 10        | 4.0   | ug/L  | 1   |  |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |  |
| 1,2-Dichloroethane-d4              |             | 98                | 70-130            |                 |         |           |       |       |     |  |
| Toluene-d8                         |             | 103               | 70-130            |                 |         |           |       |       |     |  |
| Bromofluorobenzene                 |             | 101               | 70-130            |                 |         |           |       |       |     |  |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |  |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|--|
| 1                         | 8011        | 8011              | 1                 | 09/30/2022 0556 | SAF     | 09/28/2022 2216 | 55545  |       |     |  |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |  |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.020           | 0.0050 | ug/L  | 1   |  |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |  |
| 1,1,1,2-Tetrachloroethane |             | 89                | 57-137            |                 |         |                 |        |       |     |  |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 RW-3

Matrix: Aqueous

Date Sampled: 09/20/2022 1440

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 20                | 09/28/2022 1649 | JWO     |           | 55496 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | 1000            |         | 400       | 160   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | 31              | J       | 200       | 8.4   | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | 2500            |         | 20        | 8.0   | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 100       | 40    | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | 250             |         | 20        | 8.0   | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 400       | 160   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 2000      | 1000  | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | 550             |         | 20        | 8.0   | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | 110             |         | 20        | 8.0   | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | 140             |         | 20        | 8.0   | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | 300             | J       | 400       | 160   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | 230             |         | 20        | 8.0   | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | 1800            |         | 20        | 8.0   | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 97                | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 103               | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 100               | 70-130            |                 |         |           |       |       |     |

## EDB &amp; DBCP by Microextraction

| Run                       | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date       | Batch  |       |     |
|---------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------------|--------|-------|-----|
| 1                         | 8011        | 8011              | 1                 | 09/30/2022 0607 | SAF     | 09/28/2022 2216 | 55545  |       |     |
| Parameter                 |             | CAS Number        | Analytical Method | Result          | Q       | LOQ             | DL     | Units | Run |
| 1,2-Dibromoethane (EDB)   |             | 106-93-4          | 8011              | ND              |         | 0.020           | 0.0050 | ug/L  | 1   |
| Surrogate                 | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |                 |        |       |     |
| 1,1,1,2-Tetrachloroethane |             | 69                | 57-137            |                 |         |                 |        |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: 12719 RW-3 dup

Matrix: Aqueous

Date Sampled: 09/20/2022 1442

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260D             | 20       | 09/28/2022 1712 | JWO     |           | 55496 |

| Parameter                          | CAS Number | Analytical Method | Result | Q | LOQ  | DL   | Units | Run |
|------------------------------------|------------|-------------------|--------|---|------|------|-------|-----|
| tert-Amyl alcohol (TAA)            | 75-85-4    | 8260D             | 1200   |   | 400  | 160  | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      | 994-05-8   | 8260D             | 33     | J | 200  | 8.4  | ug/L  | 1   |
| Benzene                            | 71-43-2    | 8260D             | 2500   |   | 20   | 8.0  | ug/L  | 1   |
| tert-Butyl formate (TBF)           | 762-75-4   | 8260D             | ND     |   | 100  | 40   | ug/L  | 1   |
| 1,2-Dichloroethane                 | 107-06-2   | 8260D             | ND     |   | 20   | 8.0  | ug/L  | 1   |
| Diisopropyl ether (IPE)            | 108-20-3   | 8260D             | 250    |   | 20   | 8.0  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             | 624-95-3   | 8260D             | ND     |   | 400  | 160  | ug/L  | 1   |
| Ethanol                            | 64-17-5    | 8260D             | ND     |   | 2000 | 1000 | ug/L  | 1   |
| Ethylbenzene                       | 100-41-4   | 8260D             | 600    |   | 20   | 8.0  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      | 637-92-3   | 8260D             | ND     |   | 20   | 8.0  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4  | 8260D             | 150    |   | 20   | 8.0  | ug/L  | 1   |
| Naphthalene                        | 91-20-3    | 8260D             | 160    |   | 20   | 8.0  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           | 75-65-0    | 8260D             | 310    | J | 400  | 160  | ug/L  | 1   |
| Toluene                            | 108-88-3   | 8260D             | 230    |   | 20   | 8.0  | ug/L  | 1   |
| Xylenes (total)                    | 1330-20-7  | 8260D             | 1800   |   | 20   | 8.0  | ug/L  | 1   |

| Surrogate             | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 |   | 99               | 70-130            |
| Toluene-d8            |   | 102              | 70-130            |
| Bromofluorobenzene    |   | 101              | 70-130            |

## EDB &amp; DBCP by Microextraction

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 1   | 8011        | 8011              | 1        | 09/30/2022 0629 | SAF     | 09/28/2022 2216 | 55545 |

| Parameter               | CAS Number | Analytical Method | Result | Q | LOQ   | DL     | Units | Run |
|-------------------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| 1,2-Dibromoethane (EDB) | 106-93-4   | 8011              | ND     | P | 0.020 | 0.0049 | ug/L  | 1   |

| Surrogate                 | Q | Run 1 % Recovery | Acceptance Limits |
|---------------------------|---|------------------|-------------------|
| 1,1,1,2-Tetrachloroethane |   | 124              | 57-137            |

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit      Q = Surrogate failure  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)  
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com



Description: 12719 Trip Blank

Matrix: Aqueous

Date Sampled: 09/20/2022

Date Received: 09/22/2022

## Volatile Organic Compounds by GC/MS

| Run                                | Prep Method | Analytical Method | Dilution          | Analysis Date   | Analyst | Prep Date | Batch |       |     |
|------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1                                  | 5030B       | 8260D             | 1                 | 09/28/2022 1149 | JWO     |           | 55496 |       |     |
| Parameter                          |             | CAS Number        | Analytical Method | Result          | Q       | LOQ       | DL    | Units | Run |
| tert-Amyl alcohol (TAA)            |             | 75-85-4           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| tert-Amyl methyl ether (TAME)      |             | 994-05-8          | 8260D             | ND              |         | 10        | 0.42  | ug/L  | 1   |
| Benzene                            |             | 71-43-2           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-Butyl formate (TBF)           |             | 762-75-4          | 8260D             | ND              |         | 5.0       | 2.0   | ug/L  | 1   |
| 1,2-Dichloroethane                 |             | 107-06-2          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Diisopropyl ether (IPE)            |             | 108-20-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| 3,3-Dimethyl-1-butanol             |             | 624-95-3          | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Ethanol                            |             | 64-17-5           | 8260D             | ND              |         | 100       | 52    | ug/L  | 1   |
| Ethylbenzene                       |             | 100-41-4          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Ethyl-tert-butyl ether (ETBE)      |             | 637-92-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Methyl tertiary butyl ether (MTBE) |             | 1634-04-4         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Naphthalene                        |             | 91-20-3           | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| tert-butyl alcohol (TBA)           |             | 75-65-0           | 8260D             | ND              |         | 20        | 8.0   | ug/L  | 1   |
| Toluene                            |             | 108-88-3          | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Xylenes (total)                    |             | 1330-20-7         | 8260D             | ND              |         | 1.0       | 0.40  | ug/L  | 1   |
| Surrogate                          | Q           | Run 1 % Recovery  | Acceptance Limits |                 |         |           |       |       |     |
| 1,2-Dichloroethane-d4              |             | 97                | 70-130            |                 |         |           |       |       |     |
| Toluene-d8                         |             | 103               | 70-130            |                 |         |           |       |       |     |
| Bromofluorobenzene                 |             | 95                | 70-130            |                 |         |           |       |       |     |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result &lt; LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

## QC Summary

## Volatile Organic Compounds by GC/MS - MB

Sample ID: XQ55487-001

Matrix: Aqueous

Batch: 55487

Prep Method: 5030B

Analytical Method: 8260D

| Parameter                          | Result | Q | Dil | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|---|-----|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |   | 1   | 20  | 8.0  | ug/L  | 09/28/2022 1014 |
| tert-Amyl methyl ether (TAME)      | ND     |   | 1   | 10  | 0.42 | ug/L  | 09/28/2022 1014 |
| Benzene                            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1014 |
| tert-Butyl formate (TBF)           | ND     |   | 1   | 5.0 | 2.0  | ug/L  | 09/28/2022 1014 |
| 1,2-Dichloroethane                 | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1014 |
| Diisopropyl ether (IPE)            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1014 |
| 3,3-Dimethyl-1-butanol             | ND     |   | 1   | 20  | 8.0  | ug/L  | 09/28/2022 1014 |
| Ethanol                            | ND     |   | 1   | 100 | 52   | ug/L  | 09/28/2022 1014 |
| Ethylbenzene                       | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1014 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1014 |
| Methyl tertiary butyl ether (MTBE) | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1014 |
| Naphthalene                        | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1014 |
| tert-butyl alcohol (TBA)           | ND     |   | 1   | 20  | 8.0  | ug/L  | 09/28/2022 1014 |
| Toluene                            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1014 |
| Xylenes (total)                    | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1014 |

| Surrogate             | Q | % Rec | Acceptance Limit |
|-----------------------|---|-------|------------------|
| 1,2-Dichloroethane-d4 |   | 107   | 70-130           |
| Toluene-d8            |   | 100   | 70-130           |
| Bromofluorobenzene    |   | 97    | 70-130           |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: XQ55487-002

Matrix: Aqueous

Batch: 55487

Prep Method: 5030B

Analytical Method: 8260D

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | %Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|---|-----|-------|------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 1000          |   | 1   | 103   | 70-130     | 09/28/2022 0904 |
| tert-Amyl methyl ether (TAME)      | 50                  | 49            |   | 1   | 98    | 70-130     | 09/28/2022 0904 |
| Benzene                            | 50                  | 49            |   | 1   | 99    | 70-130     | 09/28/2022 0904 |
| tert-Butyl formate (TBF)           | 250                 | 230           |   | 1   | 94    | 70-130     | 09/28/2022 0904 |
| 1,2-Dichloroethane                 | 50                  | 53            |   | 1   | 106   | 70-130     | 09/28/2022 0904 |
| Diisopropyl ether (IPE)            | 50                  | 50            |   | 1   | 100   | 70-130     | 09/28/2022 0904 |
| 3,3-Dimethyl-1-butanol             | 1000                | 1000          |   | 1   | 102   | 70-130     | 09/28/2022 0904 |
| Ethanol                            | 5000                | 5300          |   | 1   | 105   | 70-130     | 09/28/2022 0904 |
| Ethylbenzene                       | 50                  | 49            |   | 1   | 99    | 70-130     | 09/28/2022 0904 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 47            |   | 1   | 93    | 70-130     | 09/28/2022 0904 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 46            |   | 1   | 92    | 70-130     | 09/28/2022 0904 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

\* = RSD is out of criteria

+ = RPD is out of criteria

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: XQ55487-002

Matrix: Aqueous

Batch: 55487

Prep Method: 5030B

Analytical Method: 8260D

| Parameter                | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | %Rec Limit | Analysis Date   |
|--------------------------|---------------------|---------------|------------------|-----|-------|------------|-----------------|
| Naphthalene              | 50                  | 49            |                  | 1   | 97    | 70-130     | 09/28/2022 0904 |
| tert-butyl alcohol (TBA) | 1000                | 1000          |                  | 1   | 103   | 70-130     | 09/28/2022 0904 |
| Toluene                  | 50                  | 48            |                  | 1   | 95    | 70-130     | 09/28/2022 0904 |
| Xylenes (total)          | 100                 | 99            |                  | 1   | 99    | 70-130     | 09/28/2022 0904 |
| Surrogate                | Q                   | % Rec         | Acceptance Limit |     |       |            |                 |
| 1,2-Dichloroethane-d4    |                     | 105           | 70-130           |     |       |            |                 |
| Toluene-d8               |                     | 96            | 70-130           |     |       |            |                 |
| Bromofluorobenzene       |                     | 97            | 70-130           |     |       |            |                 |

## Volatile Organic Compounds by GC/MS - MB

Sample ID: XQ55496-001

Matrix: Aqueous

Batch: 55496

Prep Method: 5030B

Analytical Method: 8260D

| Parameter                          | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/28/2022 1044 |
| tert-Amyl methyl ether (TAME)      | ND     |       | 1                | 10  | 0.42 | ug/L  | 09/28/2022 1044 |
| Benzene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 1044 |
| tert-Butyl formate (TBF)           | ND     |       | 1                | 5.0 | 2.0  | ug/L  | 09/28/2022 1044 |
| 1,2-Dichloroethane                 | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 1044 |
| Diisopropyl ether (IPE)            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 1044 |
| 3,3-Dimethyl-1-butanol             | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/28/2022 1044 |
| Ethanol                            | ND     |       | 1                | 100 | 52   | ug/L  | 09/28/2022 1044 |
| Ethylbenzene                       | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 1044 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 1044 |
| Methyl tertiary butyl ether (MTBE) | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 1044 |
| Naphthalene                        | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 1044 |
| tert-butyl alcohol (TBA)           | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/28/2022 1044 |
| Toluene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 1044 |
| Xylenes (total)                    | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 1044 |
| Surrogate                          | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4              |        | 98    | 70-130           |     |      |       |                 |
| Toluene-d8                         |        | 103   | 70-130           |     |      |       |                 |
| Bromofluorobenzene                 |        | 98    | 70-130           |     |      |       |                 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

\* = RSD is out of criteria

+ = RPD is out of criteria

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: XQ55496-002

Matrix: Aqueous

Batch: 55496

Prep Method: 5030B

Analytical Method: 8260D

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | %Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|------------------|-----|-------|------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 1100          |                  | 1   | 106   | 70-130     | 09/28/2022 0835 |
| tert-Amyl methyl ether (TAME)      | 50                  | 51            |                  | 1   | 102   | 70-130     | 09/28/2022 0835 |
| Benzene                            | 50                  | 49            |                  | 1   | 98    | 70-130     | 09/28/2022 0835 |
| tert-Butyl formate (TBF)           | 250                 | 280           |                  | 1   | 114   | 70-130     | 09/28/2022 0835 |
| 1,2-Dichloroethane                 | 50                  | 48            |                  | 1   | 96    | 70-130     | 09/28/2022 0835 |
| Diisopropyl ether (IPE)            | 50                  | 51            |                  | 1   | 103   | 70-130     | 09/28/2022 0835 |
| 3,3-Dimethyl-1-butanol             | 1000                | 1100          |                  | 1   | 106   | 70-130     | 09/28/2022 0835 |
| Ethanol                            | 5000                | 5300          |                  | 1   | 107   | 70-130     | 09/28/2022 0835 |
| Ethylbenzene                       | 50                  | 50            |                  | 1   | 99    | 70-130     | 09/28/2022 0835 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 51            |                  | 1   | 102   | 70-130     | 09/28/2022 0835 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 52            |                  | 1   | 104   | 70-130     | 09/28/2022 0835 |
| Naphthalene                        | 50                  | 51            |                  | 1   | 101   | 70-130     | 09/28/2022 0835 |
| tert-butyl alcohol (TBA)           | 1000                | 1000          |                  | 1   | 102   | 70-130     | 09/28/2022 0835 |
| Toluene                            | 50                  | 49            |                  | 1   | 98    | 70-130     | 09/28/2022 0835 |
| Xylenes (total)                    | 100                 | 99            |                  | 1   | 99    | 70-130     | 09/28/2022 0835 |
| Surrogate                          | Q                   | % Rec         | Acceptance Limit |     |       |            |                 |
| 1,2-Dichloroethane-d4              |                     | 97            | 70-130           |     |       |            |                 |
| Toluene-d8                         |                     | 96            | 70-130           |     |       |            |                 |
| Bromofluorobenzene                 |                     | 98            | 70-130           |     |       |            |                 |

## Volatile Organic Compounds by GC/MS - MS

Sample ID: XI23013-031MS

Matrix: Aqueous

Batch: 55496

Prep Method: 5030B

Analytical Method: 8260D

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | %Rec Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|---------------|---|-----|-------|------------|-----------------|
| tert-Amyl alcohol (TAA)            | 660                  | 10000               | 9400          |   | 10  | 87    | 70-130     | 09/28/2022 1757 |
| tert-Amyl methyl ether (TAME)      | ND                   | 500                 | 460           |   | 10  | 93    | 70-130     | 09/28/2022 1757 |
| Benzene                            | 970                  | 500                 | 1400          |   | 10  | 87    | 70-130     | 09/28/2022 1757 |
| tert-Butyl formate (TBF)           | ND                   | 2500                | 1100          | N | 10  | 42    | 70-130     | 09/28/2022 1757 |
| 1,2-Dichloroethane                 | ND                   | 500                 | 450           |   | 10  | 90    | 70-130     | 09/28/2022 1757 |
| Diisopropyl ether (IPE)            | 7.0                  | 500                 | 470           |   | 10  | 92    | 70-130     | 09/28/2022 1757 |
| 3,3-Dimethyl-1-butanol             | ND                   | 10000               | 8900          |   | 10  | 89    | 70-130     | 09/28/2022 1757 |
| Ethanol                            | ND                   | 50000               | 41000         |   | 10  | 82    | 70-130     | 09/28/2022 1757 |
| Ethylbenzene                       | ND                   | 500                 | 460           |   | 10  | 92    | 70-130     | 09/28/2022 1757 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 500                 | 450           |   | 10  | 90    | 70-130     | 09/28/2022 1757 |
| Methyl tertiary butyl ether (MTBE) | 52                   | 500                 | 510           |   | 10  | 91    | 70-130     | 09/28/2022 1757 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

\* = RSD is out of criteria

+ = RPD is out of criteria

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

## Volatile Organic Compounds by GC/MS - MS

Sample ID: XI23013-031MS

Matrix: Aqueous

Batch: 55496

Prep Method: 5030B

Analytical Method: 8260D

| Parameter                | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | %Rec Limit | Analysis Date   |
|--------------------------|----------------------|---------------------|------------------|---|-----|-------|------------|-----------------|
| Naphthalene              | 75                   | 500                 | 560              |   | 10  | 97    | 70-130     | 09/28/2022 1757 |
| tert-butyl alcohol (TBA) | 89                   | 10000               | 9500             |   | 10  | 94    | 70-130     | 09/28/2022 1757 |
| Toluene                  | 6.3                  | 500                 | 450              |   | 10  | 88    | 70-130     | 09/28/2022 1757 |
| Xylenes (total)          | 390                  | 1000                | 1300             |   | 10  | 88    | 70-130     | 09/28/2022 1757 |
| Surrogate                | Q                    | % Rec               | Acceptance Limit |   |     |       |            |                 |
| 1,2-Dichloroethane-d4    |                      | 89                  | 70-130           |   |     |       |            |                 |
| Toluene-d8               |                      | 89                  | 70-130           |   |     |       |            |                 |
| Bromofluorobenzene       |                      | 90                  | 70-130           |   |     |       |            |                 |

## Volatile Organic Compounds by GC/MS - MSD

Sample ID: XI23013-031MD

Matrix: Aqueous

Batch: 55496

Prep Method: 5030B

Analytical Method: 8260D

| Parameter                          | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | % RPD | %Rec Limit | % RPD Limit | Analysis Date   |
|------------------------------------|----------------------|---------------------|------------------|---|-----|-------|-------|------------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 660                  | 10000               | 9500             |   | 10  | 88    | 1.0   | 70-130     | 20          | 09/28/2022 1820 |
| tert-Amyl methyl ether (TAME)      | ND                   | 500                 | 450              |   | 10  | 91    | 2.0   | 70-130     | 20          | 09/28/2022 1820 |
| Benzene                            | 970                  | 500                 | 1400             |   | 10  | 92    | 2.0   | 70-130     | 20          | 09/28/2022 1820 |
| tert-Butyl formate (TBF)           | ND                   | 2500                | 920              | N | 10  | 37    | 14    | 70-130     | 20          | 09/28/2022 1820 |
| 1,2-Dichloroethane                 | ND                   | 500                 | 440              |   | 10  | 87    | 3.0   | 70-130     | 20          | 09/28/2022 1820 |
| Diisopropyl ether (IPE)            | 7.0                  | 500                 | 450              |   | 10  | 89    | 3.0   | 70-130     | 20          | 09/28/2022 1820 |
| 3,3-Dimethyl-1-butanol             | ND                   | 10000               | 9500             |   | 10  | 95    | 5.8   | 70-130     | 20          | 09/28/2022 1820 |
| Ethanol                            | ND                   | 50000               | 40000            |   | 10  | 80    | 1.4   | 70-130     | 20          | 09/28/2022 1820 |
| Ethylbenzene                       | ND                   | 500                 | 450              |   | 10  | 90    | 2.6   | 70-130     | 20          | 09/28/2022 1820 |
| Ethyl-tert-butyl ether (ETBE)      | ND                   | 500                 | 440              |   | 10  | 88    | 1.9   | 70-130     | 20          | 09/28/2022 1820 |
| Methyl tertiary butyl ether (MTBE) | 52                   | 500                 | 490              |   | 10  | 88    | 2.3   | 70-130     | 20          | 09/28/2022 1820 |
| Naphthalene                        | 75                   | 500                 | 550              |   | 10  | 95    | 1.3   | 70-130     | 20          | 09/28/2022 1820 |
| tert-butyl alcohol (TBA)           | 89                   | 10000               | 9200             |   | 10  | 92    | 2.3   | 70-130     | 20          | 09/28/2022 1820 |
| Toluene                            | 6.3                  | 500                 | 430              |   | 10  | 86    | 3.1   | 70-130     | 20          | 09/28/2022 1820 |
| Xylenes (total)                    | 390                  | 1000                | 1300             |   | 10  | 90    | 1.3   | 70-130     | 20          | 09/28/2022 1820 |
| Surrogate                          | Q                    | % Rec               | Acceptance Limit |   |     |       |       |            |             |                 |
| 1,2-Dichloroethane-d4              |                      | 87                  | 70-130           |   |     |       |       |            |             |                 |
| Toluene-d8                         |                      | 86                  | 70-130           |   |     |       |       |            |             |                 |
| Bromofluorobenzene                 |                      | 88                  | 70-130           |   |     |       |       |            |             |                 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

\* = RSD is out of criteria

+ = RPD is out of criteria

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

## Volatile Organic Compounds by GC/MS - MB

Sample ID: XQ55506-001

Matrix: Aqueous

Batch: 55506

Prep Method: 5030B

Analytical Method: 8260D

| Parameter                          | Result | Q | Dil | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|---|-----|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |   | 1   | 20  | 8.0  | ug/L  | 09/28/2022 1025 |
| tert-Amyl methyl ether (TAME)      | ND     |   | 1   | 10  | 0.42 | ug/L  | 09/28/2022 1025 |
| Benzene                            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1025 |
| tert-Butyl formate (TBF)           | ND     |   | 1   | 5.0 | 2.0  | ug/L  | 09/28/2022 1025 |
| 1,2-Dichloroethane                 | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1025 |
| Diisopropyl ether (IPE)            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1025 |
| 3,3-Dimethyl-1-butanol             | ND     |   | 1   | 20  | 8.0  | ug/L  | 09/28/2022 1025 |
| Ethanol                            | ND     |   | 1   | 100 | 52   | ug/L  | 09/28/2022 1025 |
| Ethylbenzene                       | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1025 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1025 |
| Methyl tertiary butyl ether (MTBE) | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1025 |
| Naphthalene                        | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1025 |
| tert-butyl alcohol (TBA)           | ND     |   | 1   | 20  | 8.0  | ug/L  | 09/28/2022 1025 |
| Toluene                            | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1025 |
| Xylenes (total)                    | ND     |   | 1   | 1.0 | 0.40 | ug/L  | 09/28/2022 1025 |

| Surrogate             | Q | % Rec | Acceptance Limit |
|-----------------------|---|-------|------------------|
| 1,2-Dichloroethane-d4 |   | 90    | 70-130           |
| Toluene-d8            |   | 98    | 70-130           |
| Bromofluorobenzene    |   | 89    | 70-130           |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: XQ55506-002

Matrix: Aqueous

Batch: 55506

Prep Method: 5030B

Analytical Method: 8260D

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | %Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|---|-----|-------|------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 830           |   | 1   | 83    | 70-130     | 09/28/2022 0923 |
| tert-Amyl methyl ether (TAME)      | 50                  | 41            |   | 1   | 82    | 70-130     | 09/28/2022 0923 |
| Benzene                            | 50                  | 45            |   | 1   | 90    | 70-130     | 09/28/2022 0923 |
| tert-Butyl formate (TBF)           | 250                 | 230           |   | 1   | 92    | 70-130     | 09/28/2022 0923 |
| 1,2-Dichloroethane                 | 50                  | 42            |   | 1   | 85    | 70-130     | 09/28/2022 0923 |
| Diisopropyl ether (IPE)            | 50                  | 45            |   | 1   | 91    | 70-130     | 09/28/2022 0923 |
| 3,3-Dimethyl-1-butanol             | 1000                | 850           |   | 1   | 85    | 70-130     | 09/28/2022 0923 |
| Ethanol                            | 5000                | 4100          |   | 1   | 83    | 70-130     | 09/28/2022 0923 |
| Ethylbenzene                       | 50                  | 44            |   | 1   | 88    | 70-130     | 09/28/2022 0923 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 40            |   | 1   | 80    | 70-130     | 09/28/2022 0923 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 41            |   | 1   | 83    | 70-130     | 09/28/2022 0923 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

\* = RSD is out of criteria

+ = RPD is out of criteria

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: XQ55506-002

Matrix: Aqueous

Batch: 55506

Prep Method: 5030B

Analytical Method: 8260D

| Parameter                | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | %Rec Limit | Analysis Date   |
|--------------------------|---------------------|---------------|------------------|-----|-------|------------|-----------------|
| Naphthalene              | 50                  | 46            |                  | 1   | 91    | 70-130     | 09/28/2022 0923 |
| tert-butyl alcohol (TBA) | 1000                | 810           |                  | 1   | 81    | 70-130     | 09/28/2022 0923 |
| Toluene                  | 50                  | 45            |                  | 1   | 89    | 70-130     | 09/28/2022 0923 |
| Xylenes (total)          | 100                 | 89            |                  | 1   | 89    | 70-130     | 09/28/2022 0923 |
| Surrogate                | Q                   | % Rec         | Acceptance Limit |     |       |            |                 |
| 1,2-Dichloroethane-d4    |                     | 84            | 70-130           |     |       |            |                 |
| Toluene-d8               |                     | 86            | 70-130           |     |       |            |                 |
| Bromofluorobenzene       |                     | 82            | 70-130           |     |       |            |                 |

## Volatile Organic Compounds by GC/MS - MB

Sample ID: XQ55588-001

Matrix: Aqueous

Batch: 55588

Prep Method: 5030B

Analytical Method: 8260D

| Parameter                          | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|------------------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| tert-Amyl alcohol (TAA)            | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/28/2022 2056 |
| tert-Amyl methyl ether (TAME)      | ND     |       | 1                | 10  | 0.42 | ug/L  | 09/28/2022 2056 |
| Benzene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 2056 |
| tert-Butyl formate (TBF)           | ND     |       | 1                | 5.0 | 2.0  | ug/L  | 09/28/2022 2056 |
| 1,2-Dichloroethane                 | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 2056 |
| Diisopropyl ether (IPE)            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 2056 |
| 3,3-Dimethyl-1-butanol             | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/28/2022 2056 |
| Ethanol                            | ND     |       | 1                | 100 | 52   | ug/L  | 09/28/2022 2056 |
| Ethylbenzene                       | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 2056 |
| Ethyl-tert-butyl ether (ETBE)      | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 2056 |
| Methyl tertiary butyl ether (MTBE) | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 2056 |
| Naphthalene                        | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 2056 |
| tert-butyl alcohol (TBA)           | ND     |       | 1                | 20  | 8.0  | ug/L  | 09/28/2022 2056 |
| Toluene                            | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 2056 |
| Xylenes (total)                    | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 09/28/2022 2056 |
| Surrogate                          | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4              |        | 92    | 70-130           |     |      |       |                 |
| Toluene-d8                         |        | 100   | 70-130           |     |      |       |                 |
| Bromofluorobenzene                 |        | 90    | 70-130           |     |      |       |                 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

\* = RSD is out of criteria

+ = RPD is out of criteria

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com



## Volatile Organic Compounds by GC/MS - LCS

Sample ID: XQ55588-002

Matrix: Aqueous

Batch: 55588

Prep Method: 5030B

Analytical Method: 8260D

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | %Rec Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|------------------|-----|-------|------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 910           |                  | 1   | 91    | 70-130     | 09/28/2022 1943 |
| tert-Amyl methyl ether (TAME)      | 50                  | 48            |                  | 1   | 95    | 70-130     | 09/28/2022 1943 |
| Benzene                            | 50                  | 50            |                  | 1   | 100   | 70-130     | 09/28/2022 1943 |
| tert-Butyl formate (TBF)           | 250                 | 260           |                  | 1   | 103   | 70-130     | 09/28/2022 1943 |
| 1,2-Dichloroethane                 | 50                  | 46            |                  | 1   | 92    | 70-130     | 09/28/2022 1943 |
| Diisopropyl ether (IPE)            | 50                  | 50            |                  | 1   | 101   | 70-130     | 09/28/2022 1943 |
| 3,3-Dimethyl-1-butanol             | 1000                | 970           |                  | 1   | 97    | 70-130     | 09/28/2022 1943 |
| Ethanol                            | 5000                | 4400          |                  | 1   | 88    | 70-130     | 09/28/2022 1943 |
| Ethylbenzene                       | 50                  | 48            |                  | 1   | 96    | 70-130     | 09/28/2022 1943 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 46            |                  | 1   | 92    | 70-130     | 09/28/2022 1943 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 48            |                  | 1   | 96    | 70-130     | 09/28/2022 1943 |
| Naphthalene                        | 50                  | 50            |                  | 1   | 101   | 70-130     | 09/28/2022 1943 |
| tert-butyl alcohol (TBA)           | 1000                | 900           |                  | 1   | 90    | 70-130     | 09/28/2022 1943 |
| Toluene                            | 50                  | 49            |                  | 1   | 99    | 70-130     | 09/28/2022 1943 |
| Xylenes (total)                    | 100                 | 97            |                  | 1   | 97    | 70-130     | 09/28/2022 1943 |
| Surrogate                          | Q                   | % Rec         | Acceptance Limit |     |       |            |                 |
| 1,2-Dichloroethane-d4              |                     | 90            | 70-130           |     |       |            |                 |
| Toluene-d8                         |                     | 95            | 70-130           |     |       |            |                 |
| Bromofluorobenzene                 |                     | 89            | 70-130           |     |       |            |                 |

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: XQ55588-003

Matrix: Aqueous

Batch: 55588

Prep Method: 5030B

Analytical Method: 8260D

| Parameter                          | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % RPD | %Rec Limit | % RPD Limit | Analysis Date   |
|------------------------------------|---------------------|---------------|---|-----|-------|-------|------------|-------------|-----------------|
| tert-Amyl alcohol (TAA)            | 1000                | 920           |   | 1   | 92    | 0.017 | 70-130     | 20          | 09/28/2022 2206 |
| tert-Amyl methyl ether (TAME)      | 50                  | 48            |   | 1   | 96    | 1.2   | 70-130     | 20          | 09/28/2022 2206 |
| Benzene                            | 50                  | 49            |   | 1   | 98    | 2.0   | 70-130     | 20          | 09/28/2022 2206 |
| tert-Butyl formate (TBF)           | 250                 | 270           |   | 1   | 107   | 3.8   | 70-130     | 20          | 09/28/2022 2206 |
| 1,2-Dichloroethane                 | 50                  | 46            |   | 1   | 92    | 0.21  | 70-130     | 20          | 09/28/2022 2206 |
| Diisopropyl ether (IPE)            | 50                  | 49            |   | 1   | 99    | 2.0   | 70-130     | 20          | 09/28/2022 2206 |
| 3,3-Dimethyl-1-butanol             | 1000                | 990           |   | 1   | 99    | 2.3   | 70-130     | 20          | 09/28/2022 2206 |
| Ethanol                            | 5000                | 4300          |   | 1   | 87    | 0.71  | 70-130     | 20          | 09/28/2022 2206 |
| Ethylbenzene                       | 50                  | 47            |   | 1   | 94    | 1.7   | 70-130     | 20          | 09/28/2022 2206 |
| Ethyl-tert-butyl ether (ETBE)      | 50                  | 48            |   | 1   | 96    | 4.0   | 70-130     | 20          | 09/28/2022 2206 |
| Methyl tertiary butyl ether (MTBE) | 50                  | 49            |   | 1   | 97    | 1.9   | 70-130     | 20          | 09/28/2022 2206 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

\* = RSD is out of criteria

+ = RPD is out of criteria

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: XQ55588-003

Matrix: Aqueous

Batch: 55588

Prep Method: 5030B

Analytical Method: 8260D

| Parameter                | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | % RPD | %Rec Limit | % RPD Limit | Analysis Date   |
|--------------------------|---------------------|---------------|------------------|-----|-------|-------|------------|-------------|-----------------|
| Naphthalene              | 50                  | 50            |                  | 1   | 99    | 1.3   | 70-130     | 20          | 09/28/2022 2206 |
| tert-butyl alcohol (TBA) | 1000                | 900           |                  | 1   | 90    | 0.22  | 70-130     | 20          | 09/28/2022 2206 |
| Toluene                  | 50                  | 49            |                  | 1   | 97    | 1.3   | 70-130     | 20          | 09/28/2022 2206 |
| Xylenes (total)          | 100                 | 96            |                  | 1   | 96    | 1.3   | 70-130     | 20          | 09/28/2022 2206 |
| Surrogate                | Q                   | % Rec         | Acceptance Limit |     |       |       |            |             |                 |
| 1,2-Dichloroethane-d4    |                     | 90            | 70-130           |     |       |       |            |             |                 |
| Toluene-d8               |                     | 94            | 70-130           |     |       |       |            |             |                 |
| Bromofluorobenzene       |                     | 89            | 70-130           |     |       |       |            |             |                 |

## Volatile Organic Compounds by GC/MS - MB

Sample ID: XQ55850-001

Matrix: Aqueous

Batch: 55850

Prep Method: 5030B

Analytical Method: 8260D

| Parameter             | Result | Q     | Dil              | LOQ | DL   | Units | Analysis Date   |
|-----------------------|--------|-------|------------------|-----|------|-------|-----------------|
| Naphthalene           | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 10/02/2022 1231 |
| Xylenes (total)       | ND     |       | 1                | 1.0 | 0.40 | ug/L  | 10/02/2022 1231 |
| Surrogate             | Q      | % Rec | Acceptance Limit |     |      |       |                 |
| 1,2-Dichloroethane-d4 |        | 104   | 70-130           |     |      |       |                 |
| Toluene-d8            |        | 101   | 70-130           |     |      |       |                 |
| Bromofluorobenzene    |        | 96    | 70-130           |     |      |       |                 |

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: XQ55850-002

Matrix: Aqueous

Batch: 55850

Prep Method: 5030B

Analytical Method: 8260D

| Parameter       | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | %Rec Limit | Analysis Date   |
|-----------------|---------------------|---------------|---|-----|-------|------------|-----------------|
| Naphthalene     | 50                  | 48            |   | 1   | 96    | 70-130     | 10/02/2022 1129 |
| Xylenes (total) | 100                 | 100           |   | 1   | 101   | 70-130     | 10/02/2022 1129 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

\* = RSD is out of criteria

+ = RPD is out of criteria

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

# Volatile Organic Compounds by GC/MS - LCS

Sample ID: XQ55850-002

Matrix: Aqueous

Batch: 55850

Prep Method: 5030B

Analytical Method: 8260D

| Surrogate             | Q | % Rec | Acceptance Limit |
|-----------------------|---|-------|------------------|
| 1,2-Dichloroethane-d4 |   | 105   | 70-130           |
| Toluene-d8            |   | 98    | 70-130           |
| Bromofluorobenzene    |   | 100   | 70-130           |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and  $\geq$  DL

P = The RPD between two GC columns exceeds 40%

\* = RSD is out of criteria

+ = RPD is out of criteria

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

## EDB & DBCP by Microextraction - MB

Sample ID: XQ55437-001

Matrix: Aqueous

Batch: 55437

Prep Method: 8011

Analytical Method: 8011

Prep Date: 09/27/2022 2234

| Parameter                 | Result | Q     | Dil              | LOQ   | DL     | Units | Analysis Date   |
|---------------------------|--------|-------|------------------|-------|--------|-------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND     |       | 1                | 0.020 | 0.0050 | ug/L  | 09/29/2022 2038 |
| Surrogate                 | Q      | % Rec | Acceptance Limit |       |        |       |                 |
| 1,1,1,2-Tetrachloroethane |        | 128   | 57-137           |       |        |       |                 |

## EDB & DBCP by Microextraction - LCS

Sample ID: XQ55437-002

Matrix: Aqueous

Batch: 55437

Prep Method: 8011

Analytical Method: 8011

Prep Date: 09/27/2022 2234

| Parameter                 | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | %Rec Limit | Analysis Date   |
|---------------------------|---------------------|---------------|------------------|-----|-------|------------|-----------------|
| 1,2-Dibromoethane (EDB)   | 0.25                | 0.24          |                  | 1   | 95    | 60-140     | 09/29/2022 2049 |
| Surrogate                 | Q                   | % Rec         | Acceptance Limit |     |       |            |                 |
| 1,1,1,2-Tetrachloroethane |                     | 108           | 57-137           |     |       |            |                 |

## EDB & DBCP by Microextraction - MS

Sample ID: XI23013-001MS

Matrix: Aqueous

Batch: 55437

Prep Method: 8011

Analytical Method: 8011

Prep Date: 09/27/2022 2234

| Parameter                 | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | %Rec Limit | Analysis Date   |
|---------------------------|----------------------|---------------------|------------------|---|-----|-------|------------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND                   | 0.25                | 0.22             |   | 1   | 91    | 60-140     | 09/29/2022 2110 |
| Surrogate                 | Q                    | % Rec               | Acceptance Limit |   |     |       |            |                 |
| 1,1,1,2-Tetrachloroethane |                      | 105                 | 57-137           |   |     |       |            |                 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

\* = RSD is out of criteria

+ = RPD is out of criteria

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

## EDB & DBCP by Microextraction - Duplicate

Sample ID: XI23013-002DU

Matrix: Aqueous

Batch: 55437

Prep Method: 8011

Analytical Method: 8011

Prep Date: 09/27/2022 2234

| Parameter                 | Sample Amount (ug/L) | Result (ug/L) | Q                | Dil | % RPD | %RPD Limit | Analysis Date   |
|---------------------------|----------------------|---------------|------------------|-----|-------|------------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND                   | ND            |                  | 1   | 0.00  | 20         | 09/29/2022 2132 |
| Surrogate                 | Q                    | % Rec         | Acceptance Limit |     |       |            |                 |
| 1,1,1,2-Tetrachloroethane |                      | 108           | 57-137           |     |       |            |                 |

## EDB & DBCP by Microextraction - MB

Sample ID: XQ55544-001

Matrix: Aqueous

Batch: 55544

Prep Method: 8011

Analytical Method: 8011

Prep Date: 09/28/2022 2216

| Parameter                 | Result | Q     | Dil              | LOQ   | DL     | Units | Analysis Date   |
|---------------------------|--------|-------|------------------|-------|--------|-------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND     |       | 1                | 0.020 | 0.0050 | ug/L  | 09/30/2022 0107 |
| Surrogate                 | Q      | % Rec | Acceptance Limit |       |        |       |                 |
| 1,1,1,2-Tetrachloroethane |        | 116   | 57-137           |       |        |       |                 |

## EDB & DBCP by Microextraction - LCS

Sample ID: XQ55544-002

Matrix: Aqueous

Batch: 55544

Prep Method: 8011

Analytical Method: 8011

Prep Date: 09/28/2022 2216

| Parameter                 | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | %Rec Limit | Analysis Date   |
|---------------------------|---------------------|---------------|------------------|-----|-------|------------|-----------------|
| 1,2-Dibromoethane (EDB)   | 0.25                | 0.22          |                  | 1   | 89    | 60-140     | 09/30/2022 0118 |
| Surrogate                 | Q                   | % Rec         | Acceptance Limit |     |       |            |                 |
| 1,1,1,2-Tetrachloroethane |                     | 96            | 57-137           |     |       |            |                 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

\* = RSD is out of criteria

+ = RPD is out of criteria

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

## EDB & DBCP by Microextraction - Duplicate

Sample ID: XI23013-017DU

Matrix: Aqueous

Batch: 55544

Prep Method: 8011

Analytical Method: 8011

Prep Date: 09/28/2022 2216

| Parameter                 | Sample Amount (ug/L) | Result (ug/L) | Q                | Dil | % RPD | %RPD Limit | Analysis Date   |
|---------------------------|----------------------|---------------|------------------|-----|-------|------------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND                   | ND            |                  | 1   | 0.00  | 20         | 09/30/2022 0232 |
| Surrogate                 | Q                    | % Rec         | Acceptance Limit |     |       |            |                 |
| 1,1,1,2-Tetrachloroethane |                      | 98            | 57-137           |     |       |            |                 |

## EDB & DBCP by Microextraction - MB

Sample ID: XQ55545-001

Matrix: Aqueous

Batch: 55545

Prep Method: 8011

Analytical Method: 8011

Prep Date: 09/28/2022 2216

| Parameter                 | Result | Q     | Dil              | LOQ   | DL     | Units | Analysis Date   |
|---------------------------|--------|-------|------------------|-------|--------|-------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND     |       | 1                | 0.020 | 0.0050 | ug/L  | 09/30/2022 0535 |
| Surrogate                 | Q      | % Rec | Acceptance Limit |       |        |       |                 |
| 1,1,1,2-Tetrachloroethane |        | 102   | 57-137           |       |        |       |                 |

## EDB & DBCP by Microextraction - LCS

Sample ID: XQ55545-002

Matrix: Aqueous

Batch: 55545

Prep Method: 8011

Analytical Method: 8011

Prep Date: 09/28/2022 2216

| Parameter                 | Spike Amount (ug/L) | Result (ug/L) | Q                | Dil | % Rec | %Rec Limit | Analysis Date   |
|---------------------------|---------------------|---------------|------------------|-----|-------|------------|-----------------|
| 1,2-Dibromoethane (EDB)   | 0.25                | 0.24          |                  | 1   | 94    | 60-140     | 09/30/2022 0546 |
| Surrogate                 | Q                   | % Rec         | Acceptance Limit |     |       |            |                 |
| 1,1,1,2-Tetrachloroethane |                     | 95            | 57-137           |     |       |            |                 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

\* = RSD is out of criteria

+ = RPD is out of criteria

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

## EDB & DBCP by Microextraction - MS

Sample ID: XI23013-034MS

Matrix: Aqueous

Batch: 55545

Prep Method: 8011

Analytical Method: 8011

Prep Date: 09/28/2022 2216

| Parameter                 | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L)    | Q | Dil | % Rec | %Rec Limit | Analysis Date   |
|---------------------------|----------------------|---------------------|------------------|---|-----|-------|------------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND                   | 0.25                | 0.16             |   | 1   | 63    | 60-140     | 09/30/2022 0618 |
| Surrogate                 | Q                    | % Rec               | Acceptance Limit |   |     |       |            |                 |
| 1,1,1,2-Tetrachloroethane |                      | 68                  | 57-137           |   |     |       |            |                 |

## EDB & DBCP by Microextraction - Duplicate

Sample ID: XI23013-035DU

Matrix: Aqueous

Batch: 55545

Prep Method: 8011

Analytical Method: 8011

Prep Date: 09/28/2022 2216

| Parameter                 | Sample Amount (ug/L) | Result (ug/L) | Q                | Dil | % RPD | %RPD Limit | Analysis Date   |
|---------------------------|----------------------|---------------|------------------|-----|-------|------------|-----------------|
| 1,2-Dibromoethane (EDB)   | ND                   | ND            |                  | 1   | 0.00  | 20         | 09/30/2022 0640 |
| Surrogate                 | Q                    | % Rec         | Acceptance Limit |     |       |            |                 |
| 1,1,1,2-Tetrachloroethane |                      | 80            | 57-137           |     |       |            |                 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

\* = RSD is out of criteria

+ = RPD is out of criteria

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

**Chain of Custody  
and  
Miscellaneous Documents**





**PACE ANALYTICAL SERVICES, LLC**  
 106 Vantage Point Drive • West Columbia, SC 29172  
 Telephone No. 803-791-9700 Fax No. 803-791-9111  
 www.pacelabs.com

Number 138300

Pace Analytical Services, LLC (formerly Sheehy Environmental Services, Inc.)  
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

|   |  |  |                            |   |        |           |                             |   |
|---|--|--|----------------------------|---|--------|-----------|-----------------------------|---|
| Client<br><b>Terry Environmental Services</b>   |  | Report to Contact<br><b>Kelly Cone</b>   |                            | Telephone No. / E-mail<br><b>843-873-8200</b>   |        | Quote No. |                             |   |
| Address<br><b>PO Box 25</b>   |  | Sampler's Signature<br><i>Langston Jones</i>   |                            | Analysts (Attach list if more space is needed)  |        |           |                             |   |
| City, State, Zip Code<br><b>Summerville, SC 29184</b>   |  | Printed Name<br><b>Langston Jones</b>  |                            | Page <b>1</b> of <b>4</b>   |        |           |                             |   |
| Project Name<br><b>Hot Spot #3005</b>   |  | Project No.<br><b>2230.8P</b>  |                            | <br><b>X123013</b>  |        |           |                             |   |
| Sample ID / Description<br>(Containers for each sample may be combined on one line.)  |  | Collection Date(s)   | Collection Time (Military) | Containers  | Matrix |           |                             | No. of Containers by Preservative Type                                      |
| 12719 FB-1  |  | 9-19-22  | 1225                       | 9   | X      |           |                             |   |
| MW-11   |  |  | 1241                       | 9   |        |           |                             |   |
| MW-11R  |  |  | 1247                       |   |        |           |                             |   |
| MW-10   |  |  | 1256                       |   |        |           |                             |   |
| MW-10R  |  |  | 1330                       |   |        |           |                             |   |
| MW-12   |  |  | 1410                       |   |        |           |                             |   |
| MW-13   |  |  | 1420                       |   |        |           |                             |   |
| MW-8R   |  |  | 1440                       |   |        |           |                             |   |
| MW-4  |  |  | 1515                       |   |        |           |                             |   |
| MW-22   |  |  | 1540                       |   |        |           |                             |   |
| Turn Around Time Required (Prior lab approval required for expedited TAT)<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify) |  | Sample Disposal<br><input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab |                            | Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown |        |           | QC Requirements (Specify)   |   |
| 1. Relinquished by <i>Langston Jones</i>  |  | Date   | Time                       | 1. Received by  |        |           | Date                        | Time  |
| 2. Relinquished by  |  | Date   | Time                       | 2. Received by  |        |           | Date                        | Time  |
| 3. Relinquished by  |  | Date   | Time                       | 3. Received by  |        |           | Date                        | Time  |
| 4. Relinquished by  |  | Date   | Time                       | 4. Laboratory received by<br><i>MICHELLE PARSONS</i>  |        |           | Date                        | Time  |
| Note: All samples are retained for four weeks from receipt unless other arrangements are made.  |  | LAB USE ONLY   |                            | Retained on Ice (Circle) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Ice Pack   |        |           | Receipt Temp: <b>2.4</b> °C | Temp Blank <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: MECS02-01

PACE ANALYTICAL SERVICES, LLC



**PACE ANALYTICAL SERVICES, LLC**  
 106 Vantage Point Drive • West Columbia, SC 29172  
 Telephone No. 803-791-9700 Fax No. 803-791-9111  
 www.pacelabs.com

Number 138299

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)  
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

|  |  |  |  |   |  |  |  |
|--|--|--|--|---|--|--|--|
| Client: Terry Environmental Services   |  | Report to Contact: Kelly Lane  |  | Telephone No. / E-mail: 843-873-8200  |  | Quote No.  |  |
| Address: PDI Box 25  |  | Sample's Signature: <i>[Signature]</i>   |  | Analyte (Attach list if more space is needed)   |  | Page 2 of 4  |  |
| City: Summerville  |  | State: SC Zip Code: 29484  |  | Printed Name: Langston Jones  |  | <br>X123013  |  |
| Project Name: Hot Spot #3005   |  | Project No.: 223058P   |  | P.O. No.:   |  |  |  |
| Sample ID / Description  |  | Collection Date(s)   |  | Collection Time (Military)  |  | Matrix   |  |
| (Containers for each sample may be combined on one line)                                       |  |  |  |   |  | No. of Containers by Preservative Type   |  |
| 12719 MW-23  |  | 9-19-22  |  | 1552  |  | g x  |  |
| MW-15  |  |  |  | 1603  |  |  |  |
| MW-24  |  |  |  | 1639  |  |  |  |
| DW-3   |  |  |  | 1715  |  |  |  |
| MW-17  |  |  |  | 1731  |  |  |  |
| MW-18  |  |  |  | 1747  |  |  |  |
| FB-2   |  | 9-20-22  |  | 0810  |  |  |  |
| MW-19  |  |  |  | 0823  |  |  |  |
| MW-20  |  |  |  | 0829  |  |  |  |
| MW-21  |  |  |  | 0837  |  |  |  |
| Turn Around Time Required (Prior lab approval required for expedited TAT)                      |  | Sample Disposal  |  | Possible Hazard Identification  |  | QC Requirements (Specify)  |  |
| <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)           |  | <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab |  | <input checked="" type="checkbox"/> Non-hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown |  |  |  |
| 1. Relinquished by: <i>[Signature]</i>   |  | Date: 9-22-22 Time: 1400   |  | 1. Received by:   |  | Date: Time:  |  |
| 2. Relinquished by:  |  | Date: Time:  |  | 2. Received by:   |  | Date: Time:  |  |
| 3. Relinquished by:  |  | Date: Time:  |  | 3. Received by:   |  | Date: Time:  |  |
| 4. Relinquished by:  |  | Date: Time:  |  | 4. Laboratory received by: <i>[Signature]</i>   |  | Date: 9/22/22 Time: 1400   |  |
| Note: All samples are retained for four weeks from receipt unless other arrangements are made. |  | LAB USE ONLY   |  | Received on Ice (Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No Ice Pack   |  | Receipt Temp: 2.4 °C Temp Blank <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |  |

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME003N2-01

PACE ANALYTICAL SERVICES, LLC



**PACE ANALYTICAL SERVICES, LLC**  
 106 Vantage Point Drive - West Columbia, SC 29172  
 Telephone No. 803-791-9700 Fax No. 803-791-9111  
 www.pacelabs.com

Number 138298

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)  
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

|  |                 |  |                                    |  |   |                           |          |
|--|-----------------|--|------------------------------------|--|---|---------------------------|----------|
| Client <b>Terry Environmental Services</b>   |                 | Report to Contact <b>Kelly Cone</b>          |                                    | Telephone No. / E-mail <b>843-873-8200</b>     |   | Quota No.                 |          |
| Address <b>PO Box 25</b>   |                 | Sampler's Signature<br><i>Langston Jones</i> |                                    | Analysis (Attach list if more space is needed) |   | Page <b>3</b> of <b>4</b> |          |
| City <b>Summerville</b>  | State <b>SC</b> | Zip Code <b>29484</b>                        | Project Name <b>Hot Spot #3005</b> |  | Project No. <b>2230, 8P</b>               |                           | P.O. No. |
| Sample ID / Description<br>(Containers for each sample may be combined on one line.) |                 | Definition<br>(Date)                         | Collection Time<br>(MM/YY)         | Matrix   | No. of Containers<br>by Preservative Type |                           |          |
| 12719 SW-1   |                 | 9-20-22                                      | 0852                               | G X  | 5   | 3                         | 2        |
| MW-14  |                 |  | 0920                               |  |   |                           |          |
| DW-2   |                 |  | 0950                               |  |   |                           |          |
| MW-25  |                 |  | 1010                               |  |   |                           |          |
| MW-9   |                 |  | 1051                               |  |   |                           |          |
| MW-2R  |                 |  | 1125                               |  |   |                           |          |
| MW-7   |                 |  | 1133                               |  |   |                           |          |
| MW-1D  |                 |  | 1206                               |  |   |                           |          |
| MW-6   |                 |  | 1250                               |  |   |                           |          |
| MW-5   |                 |  | 1358                               |  |   |                           |          |

**X123013**  
KSHZ  
Remarks / Cooler I.D.

|   |  |   |                  |   |  |                            |   |
|---|--|---|------------------|---|--|----------------------------|---|
| Turn Around Time Required (Prior lab approval required for expedited TAT)<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify) |  | Sample Disposal<br><input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab |                  | Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown |  | QC Requirements (Specify)  |   |
| 1. Relinquished by <i>Langston Jones</i>  |  | Date <b>9-22-22</b>   | Time <b>1400</b> | 1. Received by  |  | Date                       | Time  |
| 2. Relinquished by  |  | Date  | Time             | 2. Received by  |  | Date                       | Time  |
| 3. Relinquished by  |  | Date  | Time             | 3. Received by  |  | Date                       | Time  |
| 4. Relinquished by  |  | Date  | Time             | 4. Laboratory received by<br><i>W. J. Brown</i>   |  | Date <b>9/22/22</b>        | Time <b>1400</b>  |
| Note: All samples are retained for four weeks from receipt unless other arrangements are made.  |  |   |                  | LAB USE ONLY<br>Received on Ice (Circle) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Ice Pack   |  | Hazard Temp. <b>2.4</b> °C | Temp Blank <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME002N2-01

PACE ANALYTICAL SERVICES, LLC



# PACE ANALYTICAL SERVICES, LLC

DC# Title: ENV-FRM-WCOL-0286 v02\_Samples Receipt Checklist (SRC)  
 Effective Date: 8/2/2022

## Sample Receipt Checklist (SRC)

Client: Terry Env

Cooler Inspected by/date: KNR / 09/23/2022

Lot #: XT23013

|   |  |
|---|--|
| Means of receipt: <input type="checkbox"/> Pace <input checked="" type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other:                                    |  |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   | 1. Were custody seals present on the cooler?   |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA   | 2. If custody seals were present, were they intact and unbroken?   |
| pH Strip ID: <u>NA</u> Chlorine Strip ID: <u>NA</u> Tested by: <u>NA</u>  |  |
| Original temperature upon receipt / Derived (Corrected) temperature upon receipt<br>2.4 / 2.4 °C 4.6 / 4.6 °C NA / NA °C NA / NA °C %Solid Suap-Cup ID: <u>NA</u>   |  |
| Method: <input type="checkbox"/> Temperature Blank <input checked="" type="checkbox"/> Against Bottles IR Gun ID: <u>8</u> IR Gun Correction Factor: <u>0</u> °C  |  |
| Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None  |  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA   | 3. Were all coolers received at or below 6.0°C? If no, was Project Manager notified?<br>PM was Notified by: phone / email / face-to-face (circle one). |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA   | 4. Is the commercial courier's packing slip attached to this form?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 5. Were proper custody procedures (relinquished/received) followed?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 6. Were sample IDs listed on the COC and all sample containers?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 7. Was collection date & time listed on the COC and all sample containers?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 8. Did all container label information (ID, date, time) agree with the COC?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 9. Were tests to be performed listed on the COC?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 10. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?                                  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 11. Was adequate sample volume available?  |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   | 12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 13. Were all samples containers accounted for? (No missing/excess)   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA   | 14. Were VOA, 8015C and RSK-175 samples free of bubbles >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?                                   |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA   | 15. Were all DRO/metals/nutrient samples received at a pH of < 2?  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA   | 16. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?   |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA   | 17. Were all applicable NH <sub>4</sub> /TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?                                 |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA   | 18. Was the quote number listed on the container label? If yes, Quote #  |
| <b>Sample Preservation</b> (Must be completed for any sample(s) incorrectly preserved or with headspace.)   |  |
| Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # <u>NA</u>                                    |  |
| Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below.  |  |
| Sample(s) <u>NA</u> were received with bubbles >6 mm in diameter.   |  |
| Sample(s) <u>NA</u> were received with TRC > 0.5 mg/L (If #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ) with Unique ID: <u>NA</u> |  |
| Comments:   |  |
|   |  |
|   |  |
|   |  |
|   |  |

**APPENDIX C**

**Tax Map  
(Not Applicable)**

**APPENDIX D**

**Soil Boring/Field Screening Logs  
(Not Applicable)**

**APPENDIX E**

**Well Completion Logs/SCDHEC 1903 Forms  
(Not Applicable)**



**APPENDIX F**

**Aquifer Evaluation Forms  
(Not Applicable)**

**APPENDIX G**

**Disposal Manifests**

# US Water Recovery

|   |  |   |  |
|---|--|---|--|
| <b>Non-Hazardous Manifest: Waste Water or Drums</b>   |  | <b>Number:</b>  |  |
| 1. Generator's EPA ID# (if applicable):   |  | Waste ID Number:  |  |
| 2. Generator's Name and Mailing Address:<br><i>Hot Spot #3005 Chesnee, SC</i>   |  | Phone ( )   |  |
|   |  | P O #: <i>2230.8P</i>   |  |
|   |  | UST# <i>12719</i>   |  |
| 3. Agent of Generator and Mailing Address:<br><i>Terry Environmental Services PO Box 25 Summerville, SC 29484</i>   |  | Phone <i>(843) 873-8200</i>   |  |
|   |  | P O #:  |  |
| 4. Transporter Company Name:<br><i>↓</i>  |  | Phone ( )   |  |
| Truck & Trailer License Number:   |  |   |  |
| 5. Transporter U.S. EPA ID#:  |  |   |  |
| 6. Facility Name and Site Address:<br>US Water Recovery<br>511 Old Mt. Holly Rd.<br>Goose Creek, SC 29445   |  | Mailing Address:<br>US Water Recovery<br>511 Old Mt. Holly Rd.<br>Goose Creek, SC 29445 |  |
|   |  | Phone: (843) 797-3111   |  |
|   |  | Fax: (843) 797-1884   |  |
| 7. Facility U.S. EPA ID#:   |  |   |  |
| Start Level:  |  | End Level:  |  |
|   |  | Total Gallons:  |  |
|   |  | Tank Number   |  |
| 8. U.S. DOT Description   |  |   |  |
|   |  | Container   |  |
|   |  | Unit  |  |
|   |  | Quantity  |  |
| a. Non-Hazardous, non-regulated waste water   |  |   |  |
|   |  | <i>gal</i>  |  |
|   |  | <i>20</i>   |  |
| 9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility. |  |   |  |
| Printed/Typed Name: <i>Langston Jones</i>   |  | Signature: <i>Langston Jones as agent</i>   |  |
|   |  | Date: <i>9-23-22</i>  |  |
| 10. Transporter Acknowledgement of Receipt of Materials   |  |   |  |
| Printed/Typed Name: <i>Andrew Bertha</i>  |  | Signature: <i>Andrew Bertha</i>   |  |
|   |  | Date: <i>10-3-22</i>  |  |
| 11. Discrepancy Indication space:   |  |   |  |
| 12. Facility Owner or Operator: Certification of Receipt of Materials   |  |   |  |
| Printed/Typed Name: <i>David Ward</i>   |  | Signature: <i>David Ward</i>  |  |
|   |  | Date: <i>10-3-22</i>  |  |

White - Facility

Yellow - Office

Pink - Transporter

Blue - Generator

**APPENDIX H**

**Local Zoning Regulations  
(Not Applicable)**

**APPENDIX I**

**Fate and Transport Modeling Data  
(Not Applicable)**

**APPENDIX J**

**Access Agreements  
(Not Applicable)**

## **APPENDIX K**

### **Data Verification Checklist**

## Contractor Checklist – Hot Spot #3005

### UST Permit #12719 - TERRY Project #2230.8P

| Item # | Item   | Yes | No | N/A |
|--------|--|-----|----|-----|
| 1      | Is Facility Name, Permit #, and address provided?  | X   |    |     |
| 2      | Is UST Owner/Operator name, address, & phone number provided?  | X   |    |     |
| 3      | Is name, address, & phone number of current property owner provided?   | X   |    |     |
| 4      | Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?             | X   |    |     |
| 5      | Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?     |     |    | X   |
| 6      | Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided? | X   |    |     |
| 7      | Has the facility history been summarized?  | X   |    |     |
| 8      | Has the regional geology and hydrogeology been described?  | X   |    |     |
| 9      | Are the receptor survey results provided as required?  |     |    | X   |
| 10     | Has current use of the site and adjacent land been described?  | X   |    |     |
| 11     | Has the site-specific geology and hydrogeology been described?   | X   |    |     |
| 12     | Has the primary soil type been described?  |     |    | X   |
| 13     | Have field screening results been described?   |     |    | X   |
| 14     | Has a description of the soil sample collection and preservation been detailed?  |     |    | X   |
| 15     | Has the field screening methodology and procedure been detailed?   |     |    | X   |
| 16     | Has the monitoring well installation and development dates been provided?  |     |    | X   |
| 17     | Has the method of well development been detailed?  |     |    | X   |
| 18     | Has justification been provided for the locations of the monitoring wells?   |     |    | X   |
| 19     | Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?   | X   |    |     |
| 20     | Has the groundwater sampling methodology been detailed?  | X   |    |     |
| 21     | Have the groundwater sampling dates and groundwater measurements been provided?  | X   |    |     |
| 22     | Has the purging methodology been detailed?   | X   |    |     |
| 23     | Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?                    | X   |    |     |
| 24     | If free-product is present, has the thickness been provided?   | X   |    |     |
| 25     | Does the report include a brief discussion of the assessment done and the results?   | X   |    |     |
| 26     | Does the report include a brief discussion of the aquifer evaluation and results?  |     |    | X   |
| 27     | Does the report include a brief discussion of the fate & transport models used?  |     |    | X   |
| 28     | Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)  |     |    | X   |
| 29     | Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)   |     |    | X   |
| 30     | Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)   |     |    | X   |
| 31     | Have recommendations for further action been provided and explained?   | X   |    |     |
| 32     | Has the soil analytical data for the site been provided in tabular format? (Table 1)   |     |    | X   |
| 33     | Has the potentiometric data for the site been provided in tabular format? (Table 2)  | X   |    |     |
| 34     | Has the current and historical laboratory data been provided in tabular format?  | X   |    |     |



| Item # | Item   | Yes        | No | N/A        |
|--------|--|------------|----|------------|
| 35     | Have the aquifer characteristics been provided and summarized on the appropriate form?   |            |    | X          |
| 36     | Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)  |            |    | X          |
| 37     | Has the topographic map been provided with all required elements? (Figure 1)   | X          |    |            |
| 38     | Has the site base map been provided with all required elements? (Figure 2)   | X          |    |            |
| 39     | Have the CoC site maps been provided? (Figure 3 & Figure 4)  | X<br>Fig 4 |    | X<br>Fig 3 |
| 40     | Has the site potentiometric map been provided? (Figure 5)  | X          |    |            |
| 41     | Have the geologic cross-sections been provided? (Figure 6)   |            |    | X          |
| 42     | Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)                             |            |    | X          |
| 43     | Has the site survey been provided and include all necessary elements? (Appendix A)   |            |    | X          |
| 44     | Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B) | X          |    |            |
| 45     | Is the laboratory performing the analyses properly certified?  | X          |    |            |
| 46     | Has the tax map been included with all necessary elements? (Appendix C)  |            |    | X          |
| 47     | Have the soil boring/field screening logs been provided? (Appendix D)  |            |    | X          |
| 48     | Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)   |            |    | X          |
| 49     | Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)   |            |    | X          |
| 50     | Have the disposal manifests been provided? (Appendix G)  | X          |    |            |
| 51     | Has a copy of the local zoning regulations been provided? (Appendix H)   |            |    | X          |
| 52     | Has all fate and transport modeling been provided? (Appendix I)  |            |    | X          |
| 53     | Have copies of all access agreements obtained by the contractor been provided? (Appendix J)  |            |    | X          |
| 54     | Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?       | X          |    |            |

Explanation for missing and incomplete information?

Not Applicable for the current directive.



Healthy People. Healthy Communities.

R L JORDAN OIL CO OF NC  
PO BOX 2527  
SPARTANBURG SC 29304-2527

NOV 03 2022



Re: **Notification of Site Specific Target Levels and Plan Request**  
Hot Spot #6005, 107 Hampton St., Spartanburg, SC  
UST Permit #12719  
Release #2 reported August 4, 2003  
Monitoring Report received October 13, 2022  
Spartanburg County

To Whom It May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has established Site-Specific Target Levels (SSTLs) for the above reported release. The SSTLs are being provided to you and your contractor to help you better plan the investigative and remedial activities that may be required.

Based upon the data submitted in the reference report, the concentrations were above the SSTLs. Therefore, the recommended course of action for the release is active cleanup. Please reference the Site Rehabilitation Section of the UST Quality Assurance Program Plan for required information to submit to the UST Management Division. Additional work directives and approvals will be issued based on the site's risk priority classification and recommendations from your selected environmental contractor.

On all correspondence concerning this site, please reference UST Permit number above. Should you have any questions, please contact me by phone at (803) 898-0655, by fax at (803) 898-0673, or by email at [hofferqm@dhec.sc.gov](mailto:hofferqm@dhec.sc.gov).

Sincerely,

Quincy Hoffer, Hydrogeologist  
Corrective Action & Quality Assurance Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: SSTL Table

cc: Terry Environmental Services, PO Box 25, Summerville, SC 29484 (w/ enc)  
Technical file (w/ enc)

12719 SSTLs  
Modled January 2022

| Well ID | Benzene | MTBE   | Naphthalene | TAA   | TAME | DIPE  |
|---------|---------|--------|-------------|-------|------|-------|
| MW-1R   | 44390   | 173000 | 6700        | 94734 | 3580 | 10484 |
| MW-3R   | 26049   | 118186 | 6700        | 37906 | 2274 | 5675  |
| MW-5    | 1353    | 7576   | 1217        | 7195  | 970  | 1830  |
| MW-6    | 44390   | 173000 | 6700        | 82436 | 3343 | 9554  |
| MW-16   | 849     | 4908   | 892         | 5511  | 842  | 1521  |
| RW-1    | 44390   | 173000 | 6700        | 87904 | 3450 | 9973  |
| RW-2    | 44390   | 173000 | 6700        | 92731 | 3542 | 10335 |
| RW-3    | 24086   | 109900 | 6700        | 36291 | 2225 | 5511  |