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Ms. Addie Walker
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, SC 29201

May 15, 2014

Dear Ms. Walker,

**Subject: Performance Monitoring Wells Installation and Baseline Results
Auriga, Spartanburg Facility
BoW Site ID# 00225, VCC 13-5841-RP
AECOM Project No. 60280417**

Chloroform remediation activities approved in South Carolina Department of Health and Environmental Control (DHEC) letters dated September 5th and 9th, 2013 have been initiated. The approved plan included installation of performance monitoring wells at 14 locations. Nine performance monitoring locations were established on the north side of Interstate 85. Five performance monitoring locations were established south of Interstate 85 on the property at 600 Bruckner Road. Well installation activities and baseline monitoring activities have been completed. The activities completed to date are summarized below.

Performance monitoring well installation was started on December 3, 2013 and completed on March 31, 2014. A total of 24 performance monitoring wells were installed. A saprolite performance monitoring well was completed at each of the 14 locations. A paired bedrock boring was also completed at each of the 14 locations. At four of the 14 locations the bedrock boring was dry and no well was installed. Bedrock performance monitoring wells were installed at the remaining 10 locations. All 28 locations, including the 4 dry bedrock borings, were surveyed on April 2, 2014. The locations are presented on Figure 1.

Three of the four dry bedrock locations were on the DMT area side of Interstate 85. These locations were designated RW-125, RW-131, and RW-135. The remaining dry bedrock location was identified as RW-117 and is located within the 600 Bruckner property. The lack of water producing fractures within these locations is consistent with intermittent competent rock areas.

Well construction details are presented on Table 1. Complete well construction logs are presented in Attachment 1 of this letter.

As part of the well construction activities, AECOM completed two packer tests to provide vertical delineation of the chloroform plume. One packer test was completed at location RW-129 on the DMT side of Interstate 85. The second packer test was completed at location RW-115 on the 600 Bruckner Road property. The results of the packer tests are summarized in the tables below. The sample screen intervals are presented in feet below ground surface (feet bgs). The chloroform results are presented in milligrams per liter (mg/L).

Packer Tests Results – Location RW-129

	Depth (feet bgs)	Chloroform Result (mg/L)
First Interval	88.5 - 105	3.88
Second Interval	105 - 120	3.29
Third Interval	120 -135	DRY
Fourth Interval	135 - 150	1.09
Fifth Interval	150-165	DRY
Sixth Interval	165 - 180	DRY

Packer Test Results – Location RW-115

	Depth (feet bgs)	Chloroform Result (mg/L)
First Interval	75-90	2.45
Second Interval	90-105	DRY
Third Interval	105 - 120	DRY

At each packer test location two consecutive dry intervals were identified. Areas of competent rock are frequently encountered and create hydraulic barriers to vertical migration. The surveyed ground surface elevation of RW-129 is 751.96 feet. The surveyed ground surface elevation of RW-115 is 714.80 feet. Based on these results the vertical delineation was determined to be approximately 150 feet bgs on the DMT area and 90 feet bgs in the 600 Bruckner Road area. This depth was used to support selection of bedrock well screening depths, with consideration that the delineation elevation could potentially decrease as the ground elevation declines.

Baseline performance monitoring samples were collected between March 31 and April 3, 2014. The chloroform results are summarized on Table 2. The data on Table 2 is organized by well pairs. The chloroform data for saprolite wells is presented on Figure 2. The chloroform data for bedrock wells is presented on Figure 3.

The primary observation of this baseline data is that the results are consistent with the previous direct push evaluations. These results define an effective baseline reference for demonstration of remediation results across the established horizontal delineation of the plume in both saprolite and bedrock.

One significant observation is made regarding the saprolite and bedrock data on the 600 Bruckner Road property. Saprolite well MW-112 is located near Bruckner Road and near the location of DPT positions OSS-12-01 and OSS-12-02. The chloroform results in samples from these direct push locations were 2.03 and 2.53 mg/L. The chloroform result for the saprolite well MW-112 was 2.00 mg/L, consistent with the direct push results for the area. The paired bedrock well at this location is RW-113. As shown on Table 1, the distance between the bottom of the MW-112 screen and the top of the RW-113 screen is only 21.3 feet. However, the chloroform result for the sample from the bedrock well was non-detect (<0.005 mg/L). This combination of results shows that the bedrock in this area is competent and serves as a barrier to vertical migration. The next bedrock well location along the creek to the east is RW-117. This location was determined to be dry and no well was

installed. Combined with the results for RW-113, the data indicate that chloroform on the western side of the property at 600 Bruckner Road is limited to saprolite.

Well pairs to the north and east on the 600 Bruckner Road property reported detections of chloroform in both saprolite and bedrock. These results are consistent with historic data from wells RW-108 and MW-109. Chloroform in bedrock in these areas is expected to flow in a southeasterly direction, more directly toward the Pacolet River. Based on both the packer test results and the bedrock barrier identified to the west, when chloroform is detected in bedrock the depth is expected to be limited.

A complete analytical summary is presented in Table 3. Complete lab reports are also attached to this report. All samples were analyzed for volatile organics. In addition to chloroform there were three detections of cis-1,2-dichloroethene and two detections each of methylene chloride and tetrachloroethene. Each of these detections were within the former DMT vicinity on the plant property and are consistent with detections previously noted in routine monitoring activities.

In addition, the groundwater samples from the 600 Bruckner Road property were analyzed for 1,4-dioxane and semivolatile organics, including DowTherm A™ components (1,1-diphenyl and biphenyl ether). 1,4-Dioxane was detected three times in wells consistent with the detections previously noted in direct push samples. DowTherm A™ components were not detected. The only semivolatile organics detected were phthalates. These compounds are commonly encountered and are also common laboratory contaminants.

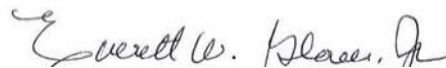
Injection activities are underway and are expected to be complete in late May. The annual June monitoring event will be scheduled soon. The first quarterly post-injection monitoring event will be completed in September. The results of the June 2014 event and four quarterly post injection events will be compared to the baseline results presented in this report. A review and assessment of the result is expected to be complete in late 2015.

If you have questions, please contact us at 404.965.9600.

Sincerely,



Bryon Dahlgren, PE
Project Manager



Everett W. Glover, Jr., PE
Senior Program Manager

Table 1
Performance Monitoring Well Construction Summary
April 2014
Auriga Spartanburg Facility
AECOM Project No. 60280417

Well Name	Zone	Date Started	Date Completed	Total Depth (ft)	Screen Interval (ft)
BRUCKNER ROAD LOCATIONS					
MW-112	Saprolite	12/4/2013	12/5/2013	39	28.7-38.7
RW-113	Bedrock	3/19/2014	3/26/2014	70	60-70
MW-114	Saprolite	12/3/2013	12/4/2013	56.6	46.3-56.3
RW-115	Bedrock	2/27/2014	3/26/2014	88.8	78.5-88.5
MW-116	Saprolite	12/6/2013	12/12/2013	31.3	21.3-31.3
RW-117	Bedrock	3/10/2014	3/26/2014	DRY - not installed	
MW-118	Saprolite	12/10/2013	12/13/2013	44.3	34.3-44.3
RW-119	Bedrock	3/6/2014	3/26/2014	90.3	80-90
MW-120	Saprolite	12/5/2013	12/13/2013	55	44.7-54.7
RW-121	Bedrock	3/4/2014	3/26/2014	80	75-80
DMT AREA LOCATIONS					
MW-122	Saprolite	12/11/2013	12/11/2013	57.5	47.2-57.2
RW-123	Bedrock	1/23/2014	3/28/2014	137.3	127-137
MW-124	Saprolite	12/11/2013	12/12/2013	59.9	49.6-59.6
RW-125	Bedrock	1/21/2014	1/22/2014	DRY - not installed	
MW-126	Saprolite	12/12/2013	12/12/2013	49.5	39.2-49.2
RW-127	Bedrock	1/9/2014	3/31/2014	92.7	82.4-92.4
MW-128	Saprolite	12/16/2013	12/17/2013	60.3	50.1-60.1
RW-129	Bedrock	2/3/2014	3/25/2014	150	134.7-144.7
MW-130	Saprolite	12/17/2013	12/17/2013	60.7	50.5-60.5
RW-131	Bedrock	1/27/2014	3/25/2014	DRY - not installed	
MW-132	Saprolite	12/18/2013	12/18/2013	65.2	54.9-64.9
RW-133	Bedrock	2/6/2014	3/25/2014	117.3	107-117
MW-134	Saprolite	12/19/2013	12/19/2013	75.4	65.1-75.1
RW-135	Bedrock	2/17/2014	2/19/2014	DRY - not installed	
MW-136	Saprolite	12/13/2013	12/13/2013	60.5	50.2-60.2
RW-137	Bedrock	2/17/2014	2/26/2014	107.3	97-107
MW-138	Saprolite	12/13/2013	12/16/2013	59.6	49.3-59.3
RW-139	Bedrock	2/21/2014	2/26/2014	97.8	87.5-97.5

Table 2
Baseline Performance Monitoring Chloroform Results
April 2014
Auriga Spartanburg Facility
AECOM Project No. 60280417

600 Bruckner Road			
MW-112	2.00	RW-113	<0.005
MW-114	1.66	RW-115	2.57
MW-116	0.845	RW-117	DRY
MW-118	0.697	RW-119	0.214
MW-120	0.149	RW-121	0.115
DMT			
MW-122	0.0308	RW-123	0.0235
MW-124	0.798	RW-125	DRY
MW-126	2.00	RW-127	1.06
MW-128	0.0077	RW-129	0.575
MW-130	0.0398	RW-131	DRY
MW-132	<0.005	RW-133	0.0492
MW-134	5.29	RW-135	DRY
MW-136	<0.005	RW-137	0.243
MW-138	0.148	RW-139	0.958

All Results in mg/L

Table 3
Summary of Baseline Performance Monitoring Results
April 2014
Auriga Spartanburg Facility
AECOM Project No. 60280417

Parameter	Unit	MW-112 4/1/2014	MW-114 4/2/2014	MW-114 Dup 4/2/2014	MW-116 4/1/2014	MW-118 4/1/2014	MW-120 4/2/2014	MW-122 4/3/2014	MW-124 4/3/2014	MW-126 4/3/2014
Volatile Organics and 1,4-Dioxane										
chloroform	mg/L	2.00	1.66	1.49	0.845	0.697	0.149	0.0308	0.798	2.00
cis-1,2-dichloroethene	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0183	<0.005	<0.005
1,4-dioxane	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	0.0023	NA	NA	NA
methylene chloride	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tetrachloroethene	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0067	0.0054
Semivolatile Organics										
bis(2-ethylhexyl)phthalate	mg/L	<0.006	<0.006	<0.006	<0.006	0.0068	<0.006	NA	NA	NA
di-n-octyl phthalate	mg/L	<0.01	0.0127	0.0129	<0.01	0.02	<0.01	NA	NA	NA
Field and Natural Attenuation Parameters										
alkalinity	mg/L	21.5	16.3	15.1	23.6	11.7	14.8	15.8	<5	7.9
chloride	mg/L	2.5	7.2	7.2	5.1	3.3	2.8	3.3	7	13.9
dissolved oxygen	mg/L	5.5	6.07	6.07	3.6	6.41	4.51	4.59	5.83	6.52
ferrous Fe	mg/L	0	0.17	0.17	0.06	0.11	0.02	0.08	0.06	0.04
groundwater elevation	feet MSL	687.60	683.20	683.20	680.30	674.05	665.08	727.56	725.74	718.50
manganese (dissolved)	mg/L	<0.005	0.0158	0.015	0.19	0.034	0.0361	0.109	0.0511	0.182
ORP	mV	152.9	153.3	153.3	139.8	149.3	150	219.8	238.4	185.8
pH	su	5.12	4.95	4.95	4.74	4.81	4.88	5.11	4.98	4.15
specific conductance	umhos/cm	0.118	0.123	0.123	0.134	0.074	0.073	0.053	0.062	0.168
temperature	degrees C	15.74	16.95	16.95	18.66	19.11	21.92	20.68	21.8	18.2
total organic carbon	mg/L	1.9	<1	<1	<1	<1	<1	<1	<1	<1
turbidity	NTU	0.17	5.03	5.03	1.68	3.57	4.11	7.03	9.33	0.01

NA - Not Analyzed
degrees C - degrees Celsius
feet MSL - feet above mean sea level
mg/L - milligrams per liter
mV - millivolts
NTU = nephelometric turbidity units
su - standard units
umhos/cm - micromhos/cm

Table 3
Summary of Baseline Performance Monitoring Results
April 2014
Auriga Spartanburg Facility
AECOM Project No. 60280417

Parameter	Unit	MW-128 4/2/2014	MW-130 4/1/2014	MW-132 4/2/2014	MW-132 Dup 4/2/2014	MW-134 4/2/2014	MW-136 3/31/2014	MW-138 3/31/2014	RW-113 4/1/2014	RW-115 4/2/2014
Volatile Organics and 1,4-Dioxane										
chloroform	mg/L	0.0077	0.0398	<0.005	<0.005	5.29	<0.005	0.148	<0.005	2.57
cis-1,2-dichloroethene	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,4-dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.002	<0.002
methylene chloride	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tetrachloroethene	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Semivolatile Organics										
bis(2-ethylhexyl)phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.006	<0.006
di-n-octyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.01	<0.01
Field and Natural Attenuation Parameters										
alkalinity	mg/L	<5	8.7	13.1	12.6	8.3	13.1	8.9	64.8	33.4
chloride	mg/L	1.5	1.2	5.2	5.1	2.3	13.9	2.6	1.9	5.9
dissolved oxygen	mg/L	9.28	2.98	0.25	0.25	2.08	5.85	6.18	1.91	5.5
ferrous Fe	mg/L	0.08	0.04	0.01	0.01	0.02	0	0.05	0.05	0.69
groundwater elevation	feet MSL	717.63	698.93	697.62	697.62	688.53	688.51	676.86	683.78	681.50
manganese (dissolved)	mg/L	0.0208	0.0675	0.116	0.117	0.0538	0.132	0.0067	0.048	0.0125
ORP	mV	280.1	269.8	303.5	303.5	238.1	152.5	170.1	109.5	130.1
pH	su	4.21	5.15	4.62	4.62	4.85	4.89	4.95	7.68	5.95
specific conductance	umhos/cm	0.031	0.029	0.046	0.046	0.047	0.117	0.072	0.252	0.172
temperature	degrees C	23.37	24.28	21.98	21.98	23.13	18.87	15.2	20.64	19.68
total organic carbon	mg/L	<1	<1	1.1	<1	<1	1.1	1.4	1.3	<1
turbidity	NTU	9.73	16.85	4.57	4.57	12.78	1.33	0.46	0	7.38

NA - Not Analyzed
degrees C - degrees Celsius
feet MSL - feet above mean sea level
mg/L - milligrams per liter
mV - millivolts
NTU = nephelometric turbidity units
su - standard units
umhos/cm - micromhos/cm

Table 3
Summary of Baseline Performance Monitoring Results
April 2014
Auriga Spartanburg Facility
AECOM Project No. 60280417

Parameter	Unit	RW-119 4/1/2014	RW-121 4/2/2014	RW-123 4/3/2014	RW-123 Dup 4/3/2014	RW-127 4/3/2014	RW-129 4/2/2014	RW-133 4/2/2014	RW-137 3/31/2014	RW-139 3/31/2014
Volatile Organics and 1,4-Dioxane										
chloroform	mg/L	0.214	0.115	0.0235	0.0224	1.06	0.575	0.0492	0.243	0.958
cis-1,2-dichloroethene	mg/L	<0.005	<0.005	0.0079	0.0074	0.0086	<0.005	<0.005	<0.005	<0.005
1,4-dioxane	mg/L	0.0048	0.0034	NA	NA	NA	NA	NA	NA	NA
methylene chloride	mg/L	<0.005	<0.005	<0.005	<0.005	0.0189	0.0141	<0.005	<0.005	<0.005
tetrachloroethene	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Semivolatile Organics										
bis(2-ethylhexyl)phthalate	mg/L	<0.006	<0.006	NA	NA	NA	NA	NA	NA	NA
di-n-octyl phthalate	mg/L	<0.01	<0.01	NA	NA	NA	NA	NA	NA	NA
Field and Natural Attenuation Parameters										
alkalinity	mg/L	71.7	68.8	85.5	85.8	85.8	242	127	69.6	57.9
chloride	mg/L	3	2.6	2.8	2.7	11.6	13.2	4.9	6.3	4.3
dissolved oxygen	mg/L	8.2	1.95	0.47	0.47	1.17	0.2	2.58	0.84	0.46
ferrous Fe	mg/L	0.12	0	0	0	0	0.08	0.02	0.22	0.12
groundwater elevation	feet MSL	673.15	664.63	720.25	720.25	716.16	709.34	683.24	687.99	673.26
manganese (dissolved)	mg/L	0.0086	<0.005	0.0129	0.0128	0.0647	0.161	0.14	0.0549	0.0349
ORP	mV	127.5	116.4	44.5	44.5	137.2	3.5	158.9	119.8	131.6
pH	su	7.23	6.98	7.41	7.41	6.9	6.49	5.92	5.81	5.39
specific conductance	umhos/cm	0.269	0.232	0.161	0.161	0.369	0.433	0.211	0.217	0.195
temperature	degrees C	15.83	19.67	20.25	20.25	19.81	21.62	18.83	20.99	16.94
total organic carbon	mg/L	<1	2.7	<1	1.1	<1	1.2	1.1	1.9	1.3
turbidity	NTU	257.7	1.79	0.46	0.46	0.44	0.01	23.36	3.65	0.64

NA - Not Analyzed
degrees C - degrees Celsius
feet MSL - feet above mean sea level
mg/L - milligrams per liter
mV - millivolts
NTU = nephelometric turbidity units
su - standard units
umhos/cm - micromhos/cm

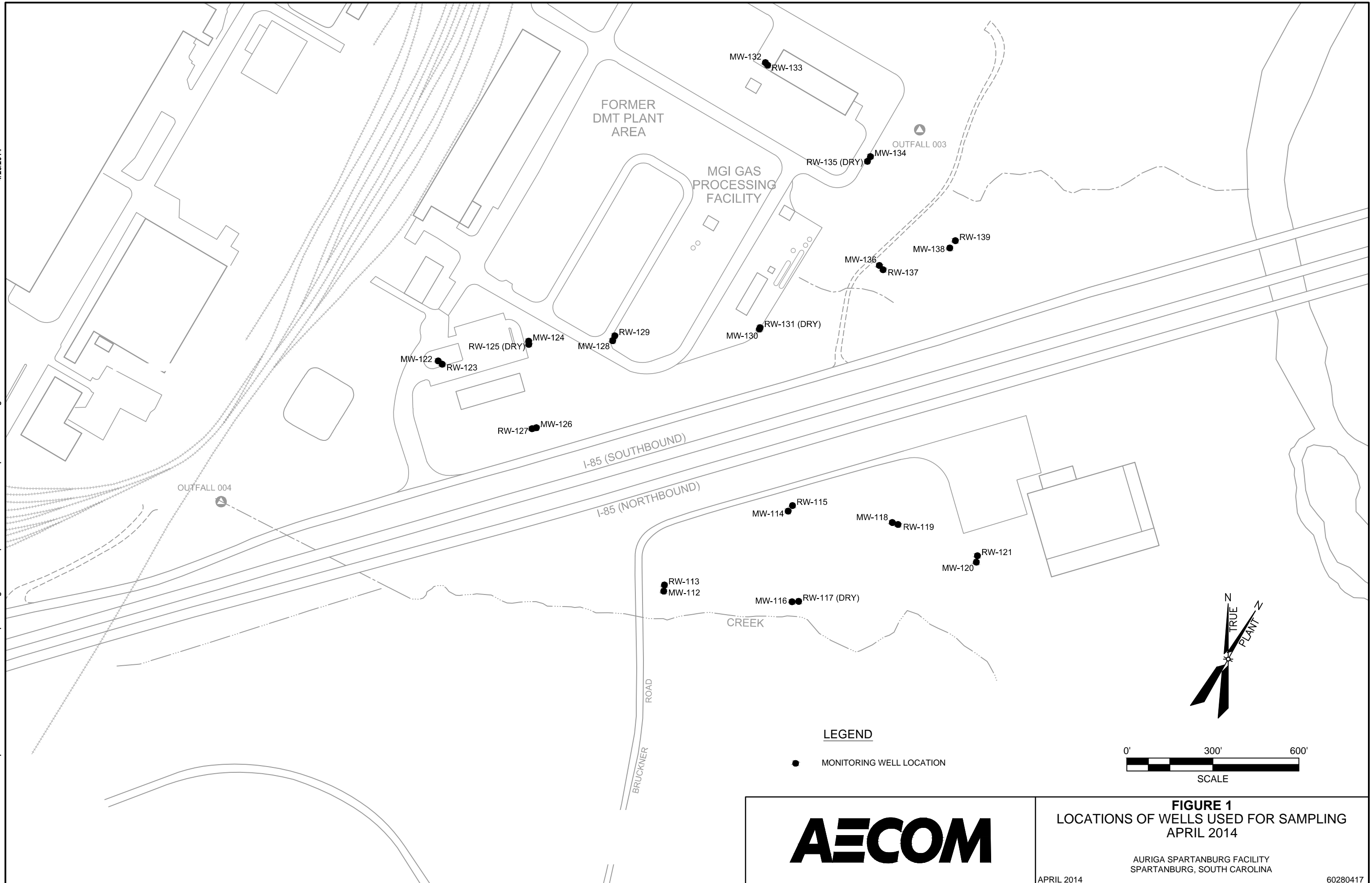
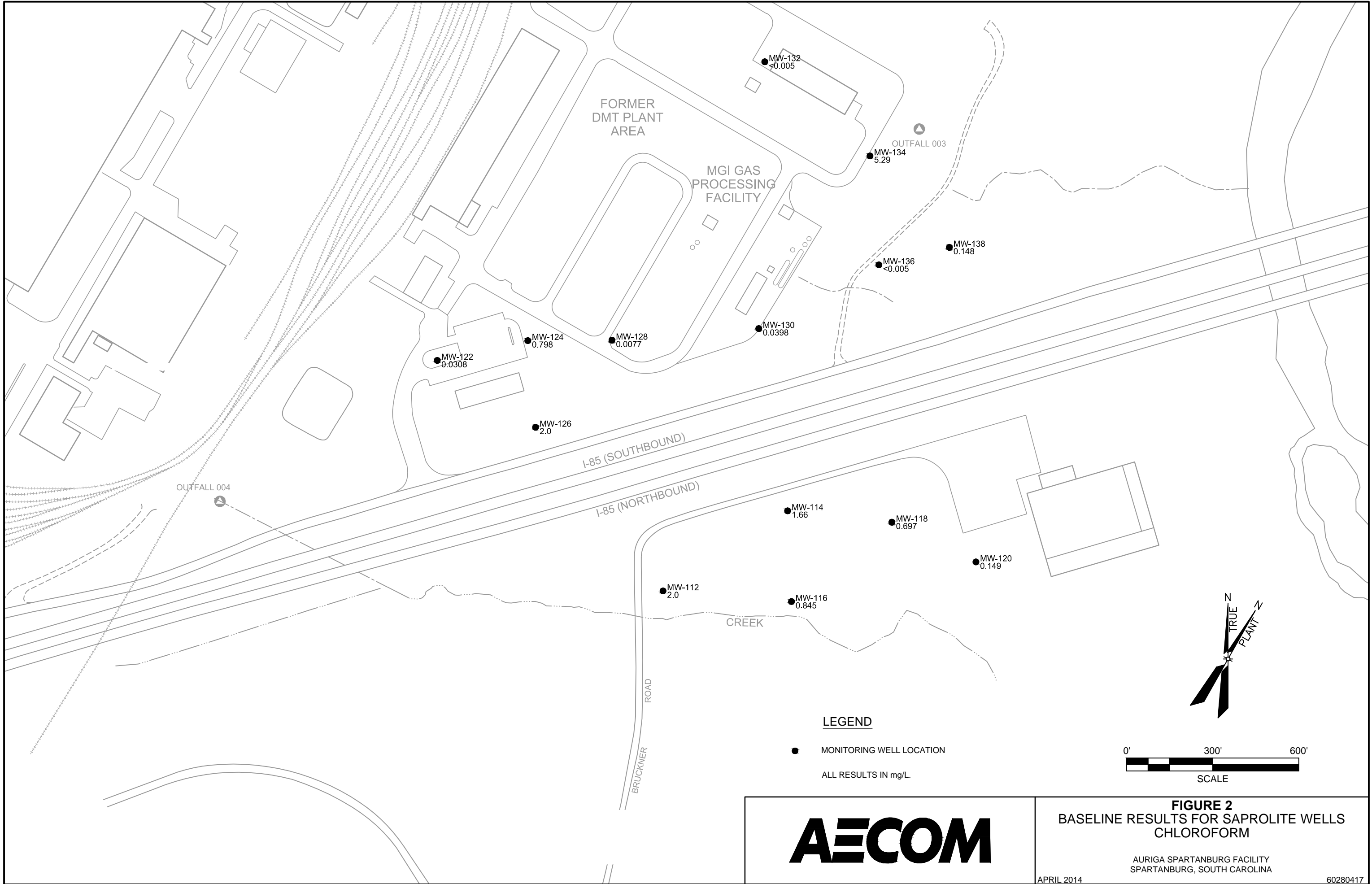


FIGURE 1
LOCATIONS OF WELLS USED FOR SAMPLING
APRIL 2014

AURIGA SPARTANBURG FACILITY
SPARTANBURG, SOUTH CAROLINA



LEGEND

- MONITORING WELL LOCATION
- ALL RESULTS IN mg/L.

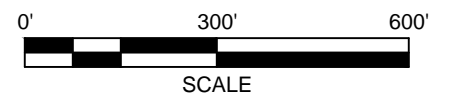
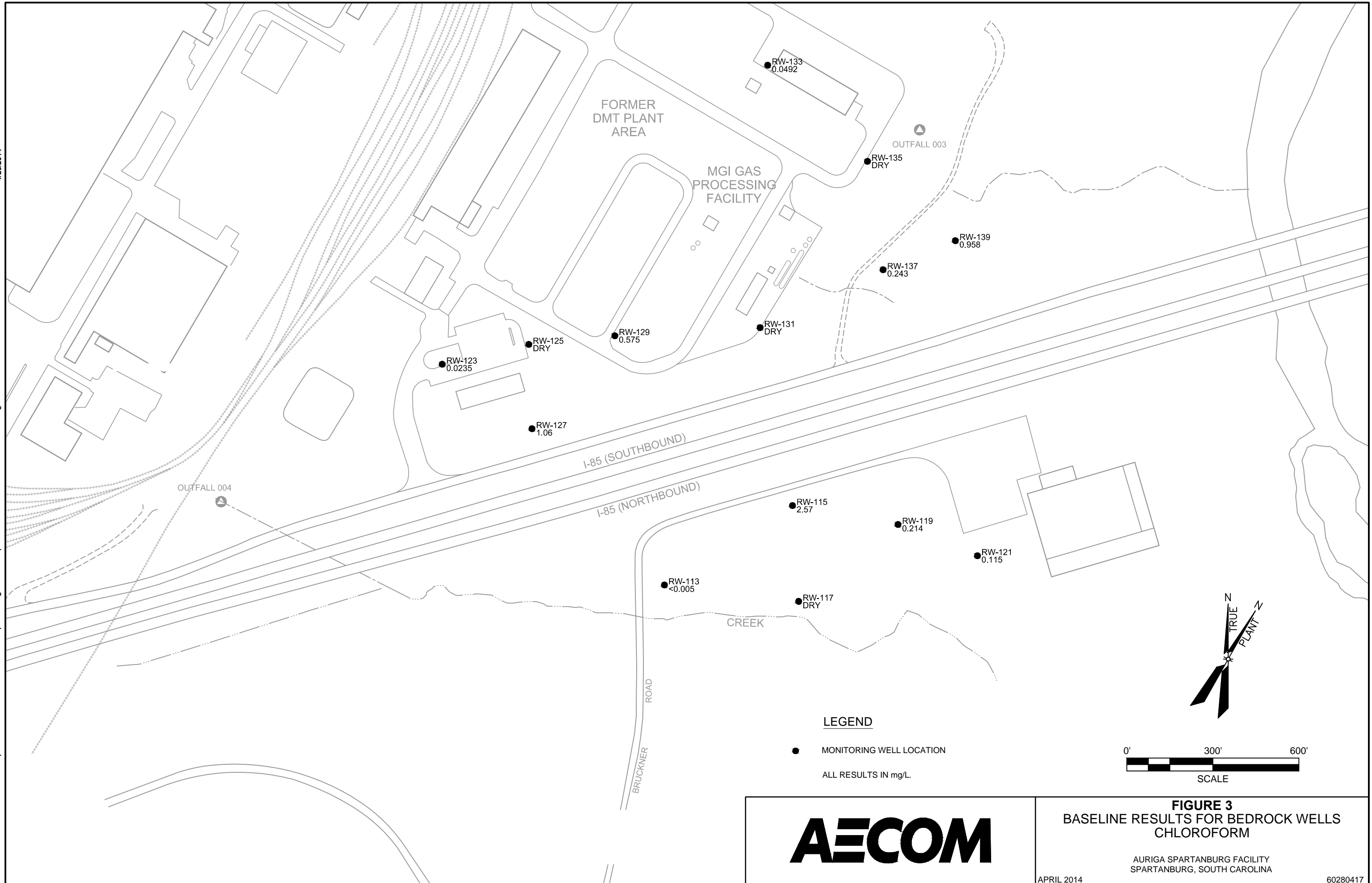


FIGURE 2
BASELINE RESULTS FOR SAPROLITE WELLS
CHLOROFORM

AURIGA SPARTANBURG FACILITY
 SPARTANBURG, SOUTH CAROLINA



LEGEND

- MONITORING WELL LOCATION
- ALL RESULTS IN mg/L.

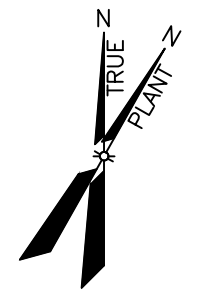
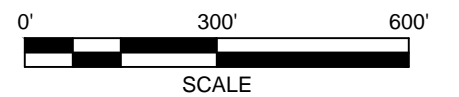


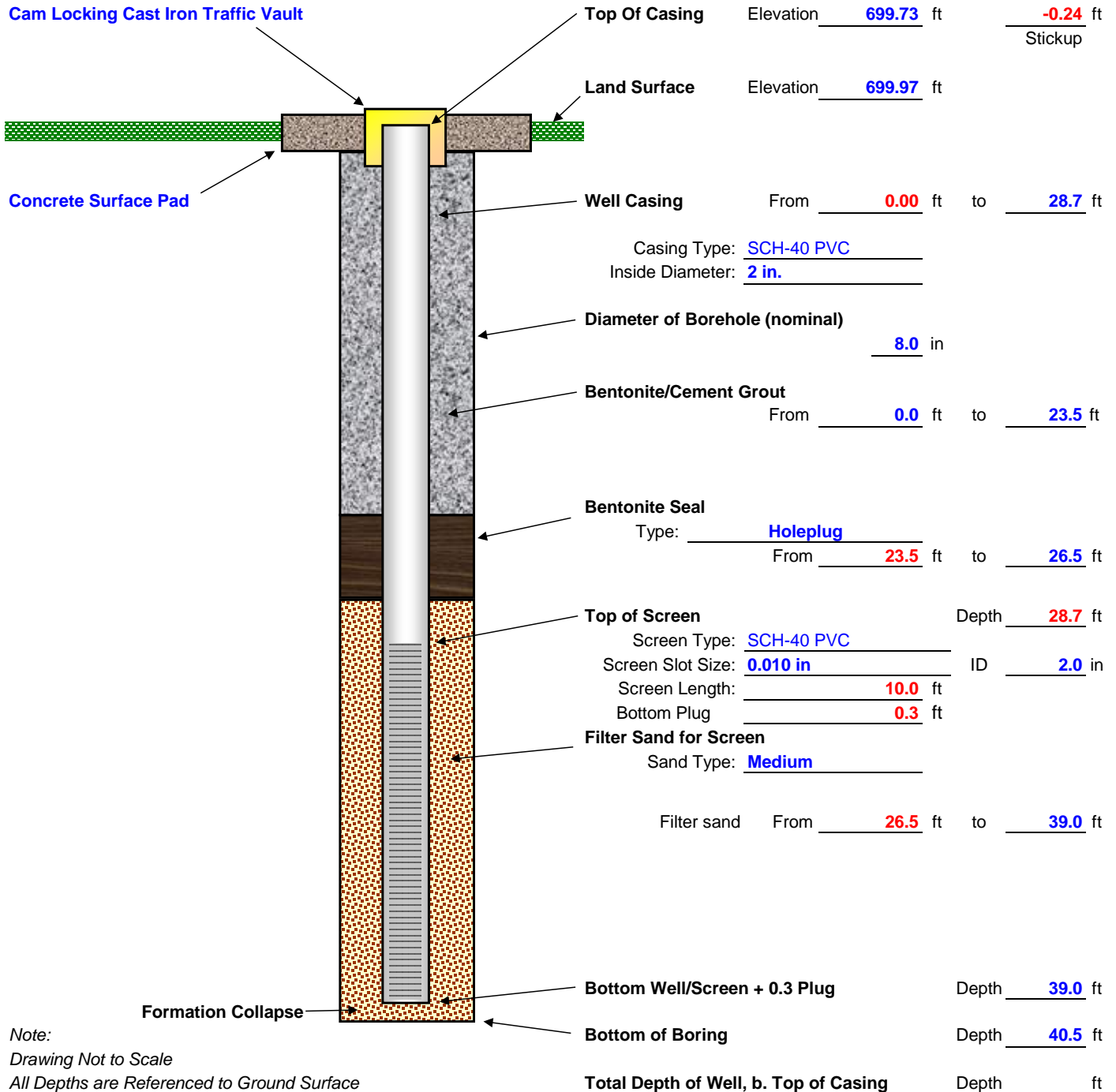
FIGURE 3
BASELINE RESULTS FOR BEDROCK WELLS
CHLOROFORM

AURIGA SPARTANBURG FACILITY
SPARTANBURG, SOUTH CAROLINA



GROUNDWATER MONITORING WELL INSTALLATION DETAIL

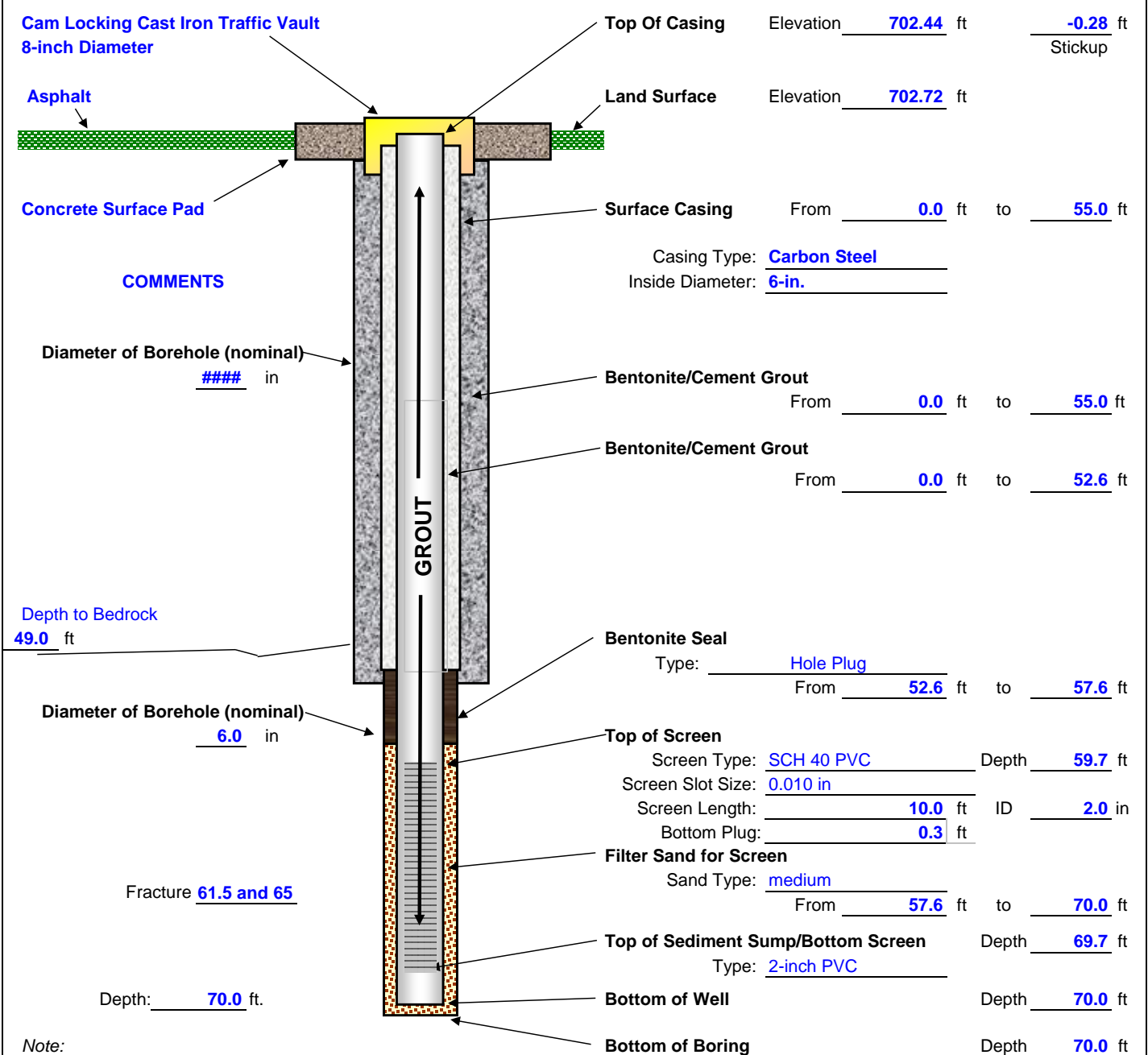
Project Name: Auriga Spartanburg **Drilling Co:** AE Drilling Services **Well Number:** MW-112
Location: _____ **Driller:** Bergman **Job Number:** 60135440
Client: Celanese **Drilling Method:** Hollow Stem Auger **Date Completed:** 12/5/2013
Geologist: Mark Hartford **Static Water Level** _____ **b.TOC** **Survey Datum:** _____



Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground Surface

GROUNDWATER MONITORING WELL INSTALLATION DETAIL

Project Name: <u>Auriga Spartanburg</u>	Drilling Co: <u>AE Drilling Services</u>	Well Number: <u>RW-113</u>
Location: _____	Driller: <u>Dan Bergman</u>	Job Number: <u>60280417</u>
Client: <u>Celanese</u>	Drilling Method: <u>Mud/Air Rotary</u>	Surface Casing: <u>3/20/2014</u>
Geologist: <u>Mark Hartford</u>	Static Water Level: _____ b.TOC	Date Completed: <u>3/26/2014</u>
		Rock Drilling: _____
		Survey Datum: <u>NGVD '88</u>

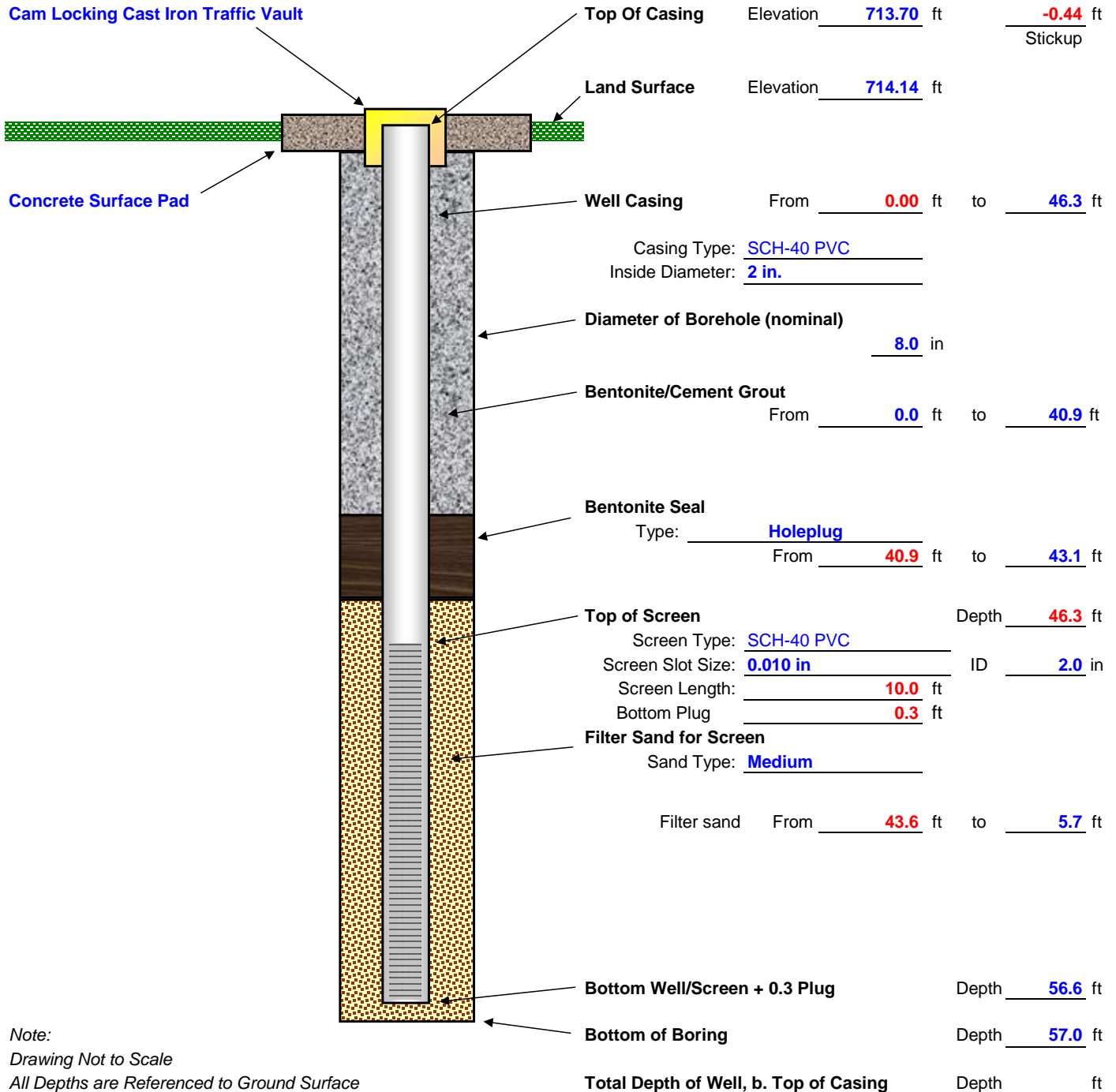


Note:
Drawing Not to Scale
All Depths are Referenced to Ground



GROUNDWATER MONITORING WELL INSTALLATION DETAIL

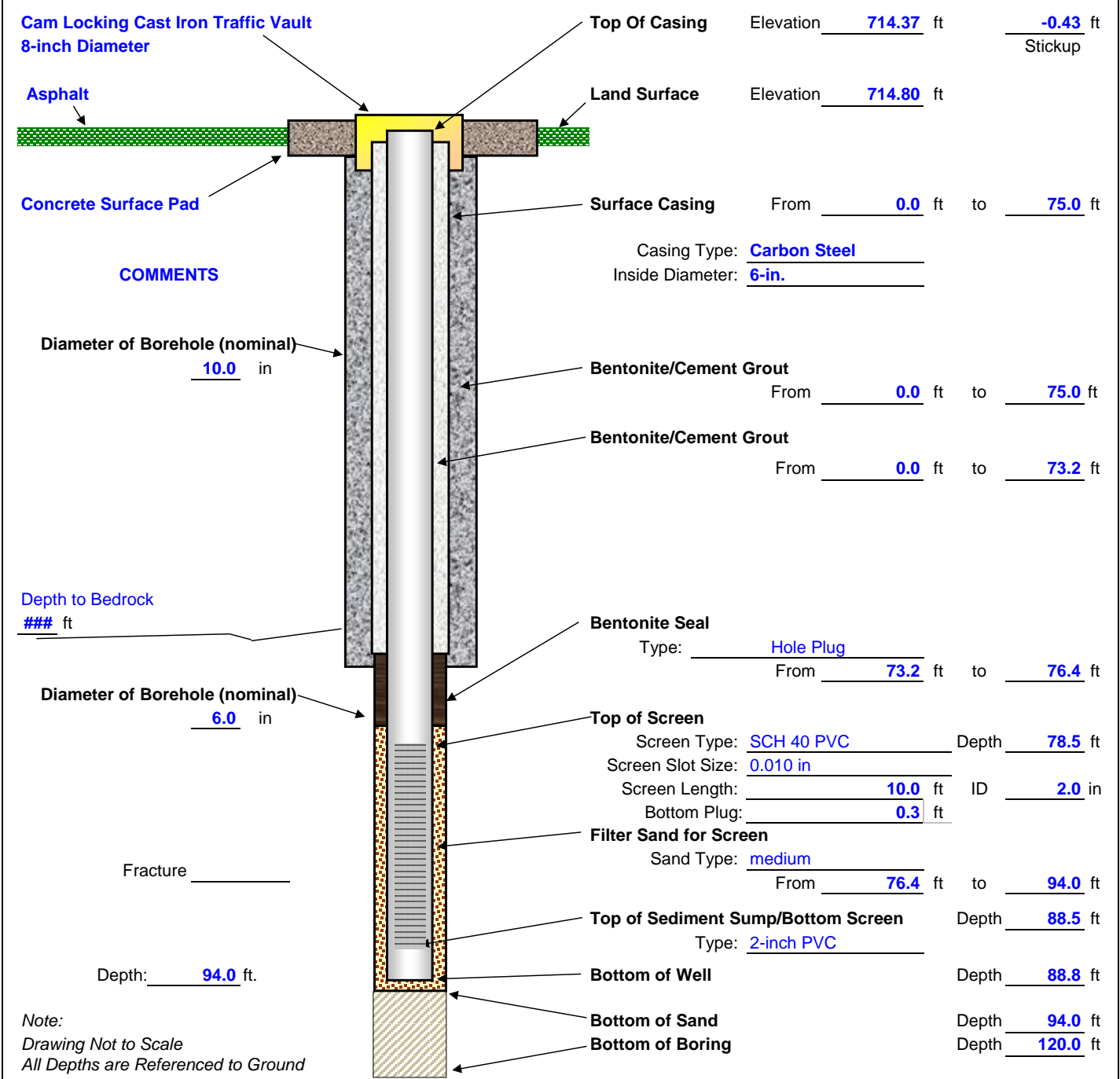
Project Name: Auriga Spartanburg **Drilling Co:** AE Drilling Services **Well Number:** MW-114
Location: Bruckner Rd **Driller:** Bergman **Job Number:** 60135440
Client: Celanese **Drilling Method:** Hollow Stem Auger **Date Completed:** 12/4/2013
Geologist: Mark Hartford **Static Water Level** _____ **b.TOC** **Survey Datum:** _____



Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground Surface

GROUNDWATER MONITORING WELL INSTALLATION DETAIL

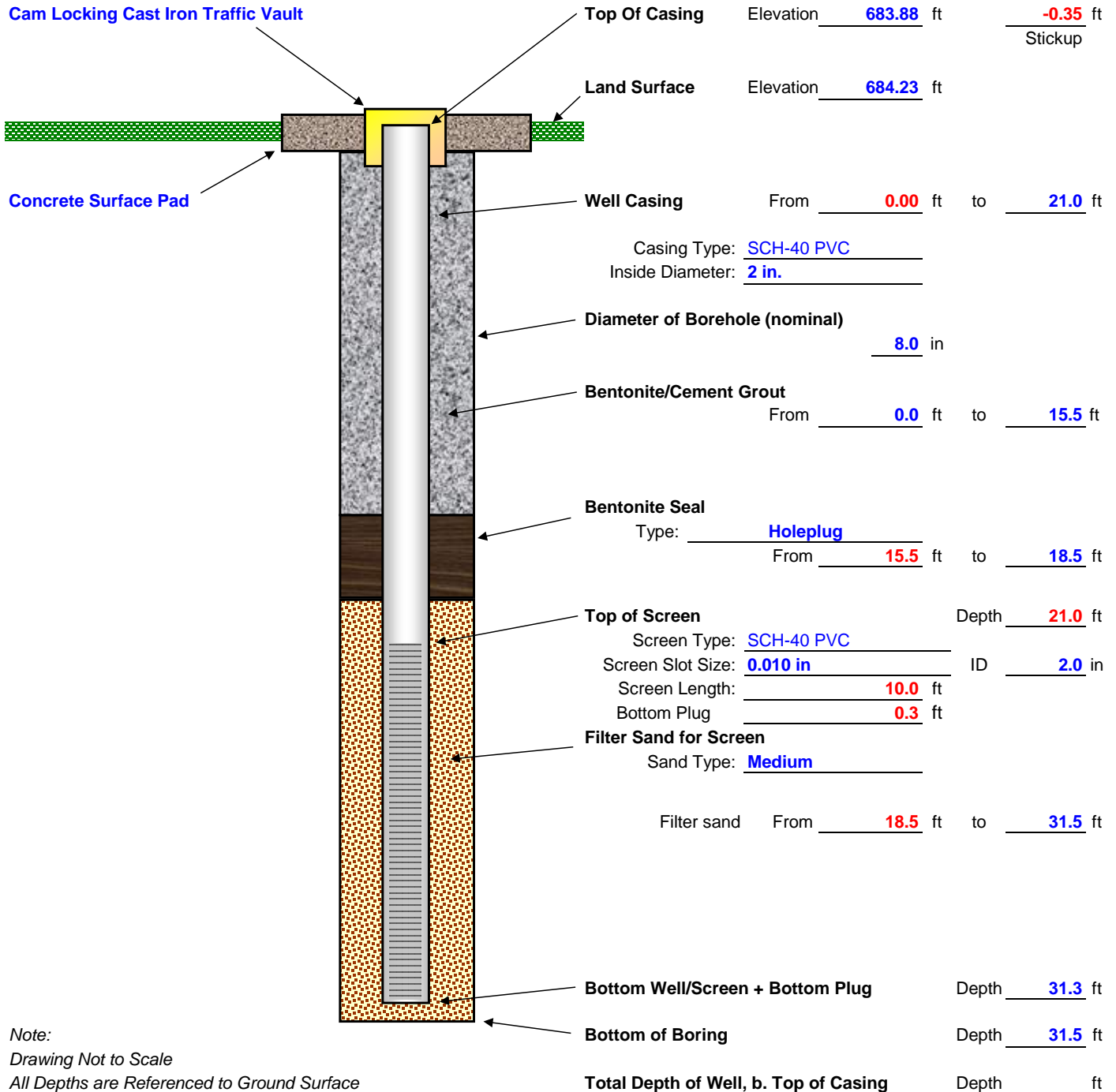
Project Name: <u>Auriga Spartanburg</u>	Drilling Co: <u>AE Drilling Services</u>	Well Number: <u>RW-115</u>
Location: <u>Bruckner Road</u>	Driller: <u>Dan Bergman</u>	Job Number: <u>60280417</u>
Client: <u>Celanese</u>	Drilling Method: <u>Mud/Air Rotary</u>	Surface Casing: <u>3/14/2014</u>
Geologist: <u>Mark Hartford/Mclver Law</u>	Static Water Level: _____ b.TOC	Date Completed: <u>3/26/2014</u>
		Rock Drilling: _____
		Survey Datum: <u>NGVD '88</u>





GROUNDWATER MONITORING WELL INSTALLATION DETAIL

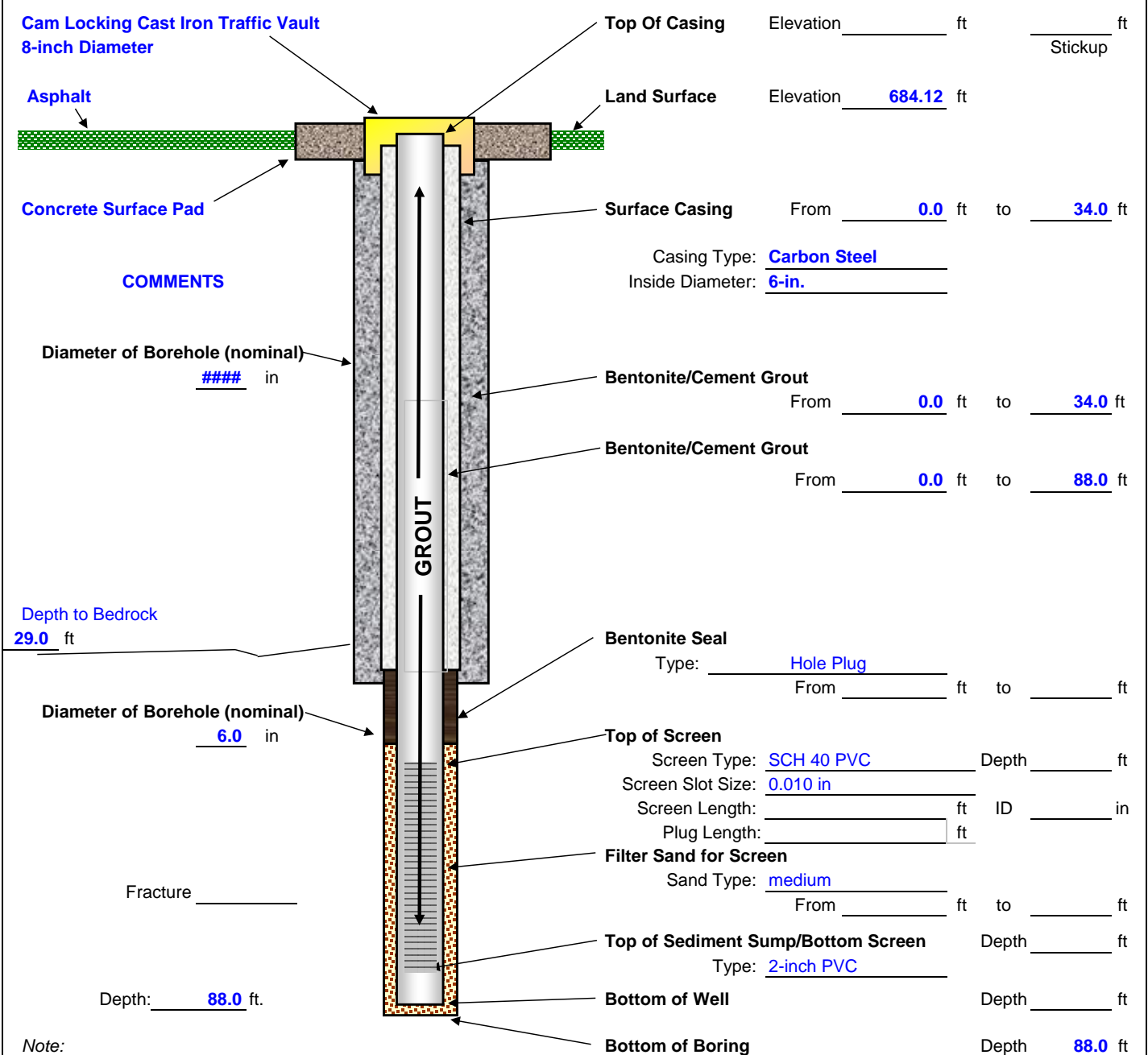
Project Name: Auriga Spartanburg **Drilling Co:** AE Drilling Services **Well Number:** MW-116
Location: Bruckner Rd **Driller:** Bergman **Job Number:** 60135440
Client: Celanese **Drilling Method:** Hollow Stem Auger **Date Completed:** 12/9/2013
Geologist: Mark Hartford **Static Water Level** _____ **b.TOC** **Survey Datum:** _____



Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground Surface

GROUNDWATER MONITORING WELL INSTALLATION DETAIL

Project Name: <u>Auriga Spartanburg</u>	Drilling Co: <u>AE Drilling Services</u>	Well Number: <u>RW-117</u>
Location: <u>Bruckner Road</u>	Driller: <u>Dan Bergman</u>	Job Number: <u>60280417</u>
Client: <u>Celanese</u>	Drilling Method: <u>Mud/Air Rotary</u>	Surface Casing: <u>3/10/2014</u>
Geologist: <u>Mark Hartford/Mclver Law</u>	Static Water Level: _____ b.TOC	Date Completed: <u>Abandoned 3-26-14</u>
		Rock Drilling: <u>2/21/2014</u>
		Survey Datum: <u>NGVD '88</u>

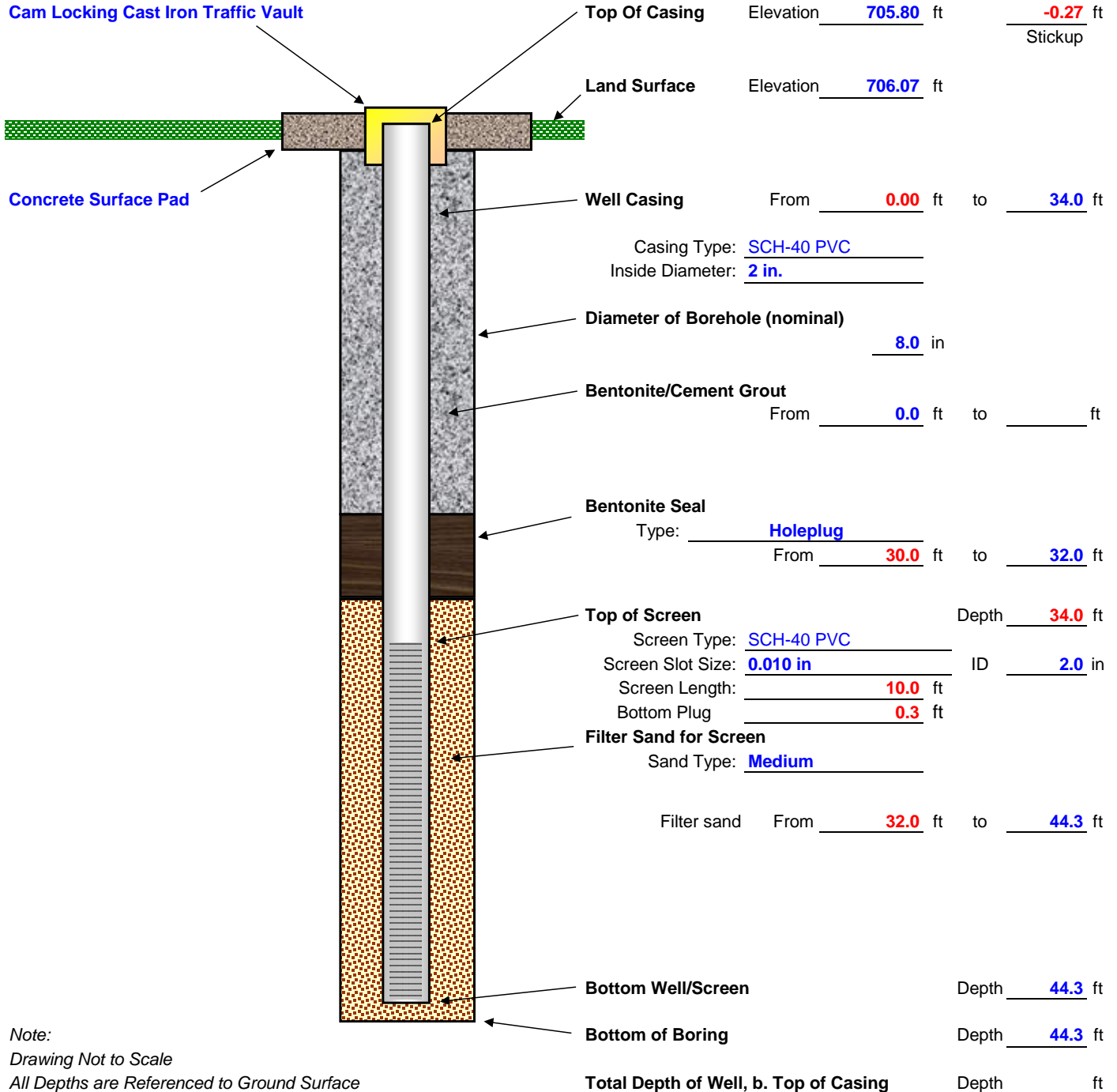


Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground



GROUNDWATER MONITORING WELL INSTALLATION DETAIL

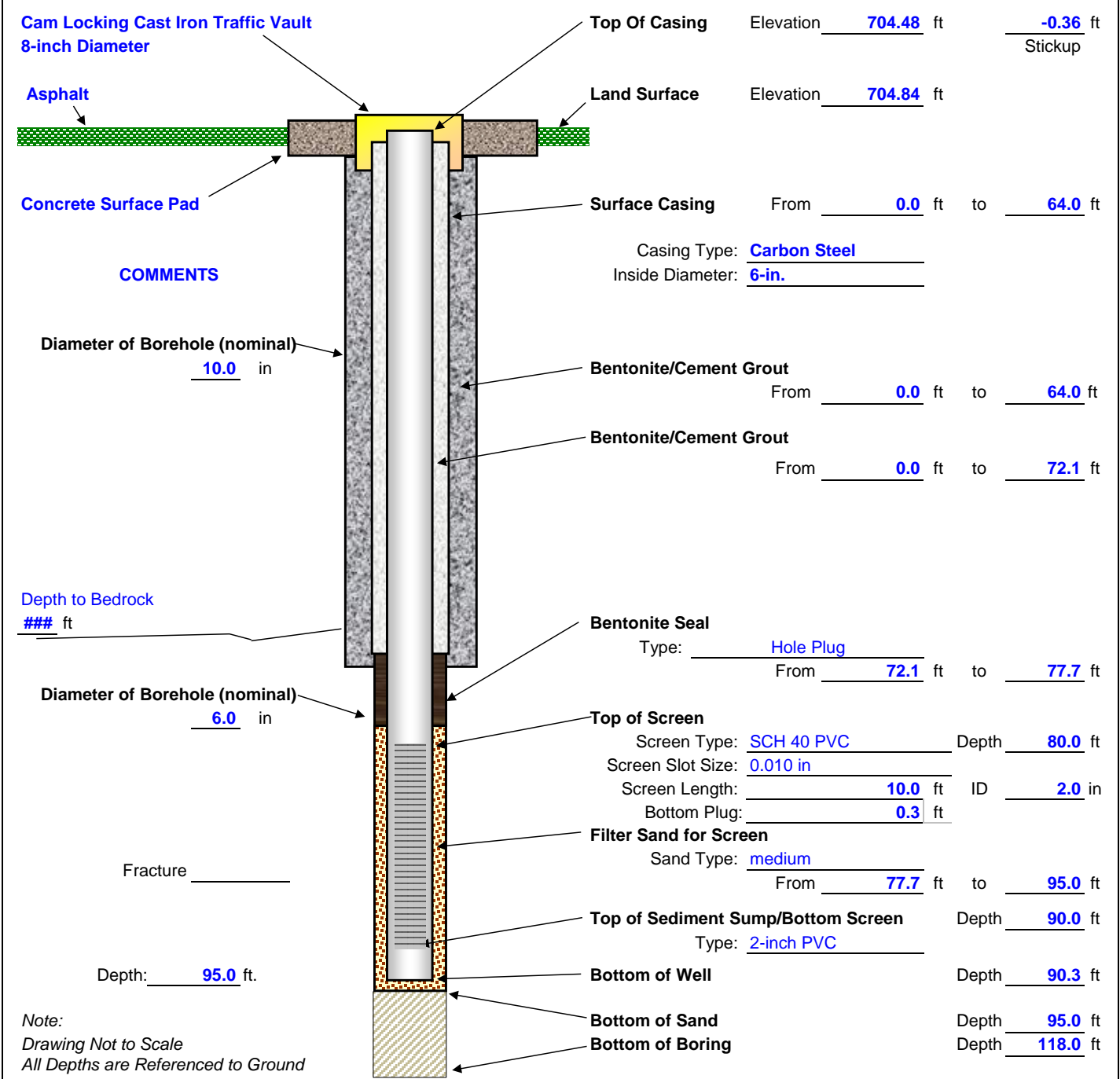
Project Name: Auriga Spartanburg **Drilling Co:** AE Drilling Services **Well Number:** MW-118
Location: _____ **Driller:** Bergman **Job Number:** 60135440
Client: Celanese **Drilling Method:** Hollow Stem Auger **Date Completed:** 12/10/2013
Geologist: Mark Hartford **Static Water Level** _____ **b.TOC** **Survey Datum:** _____



Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground Surface

GROUNDWATER MONITORING WELL INSTALLATION DETAIL

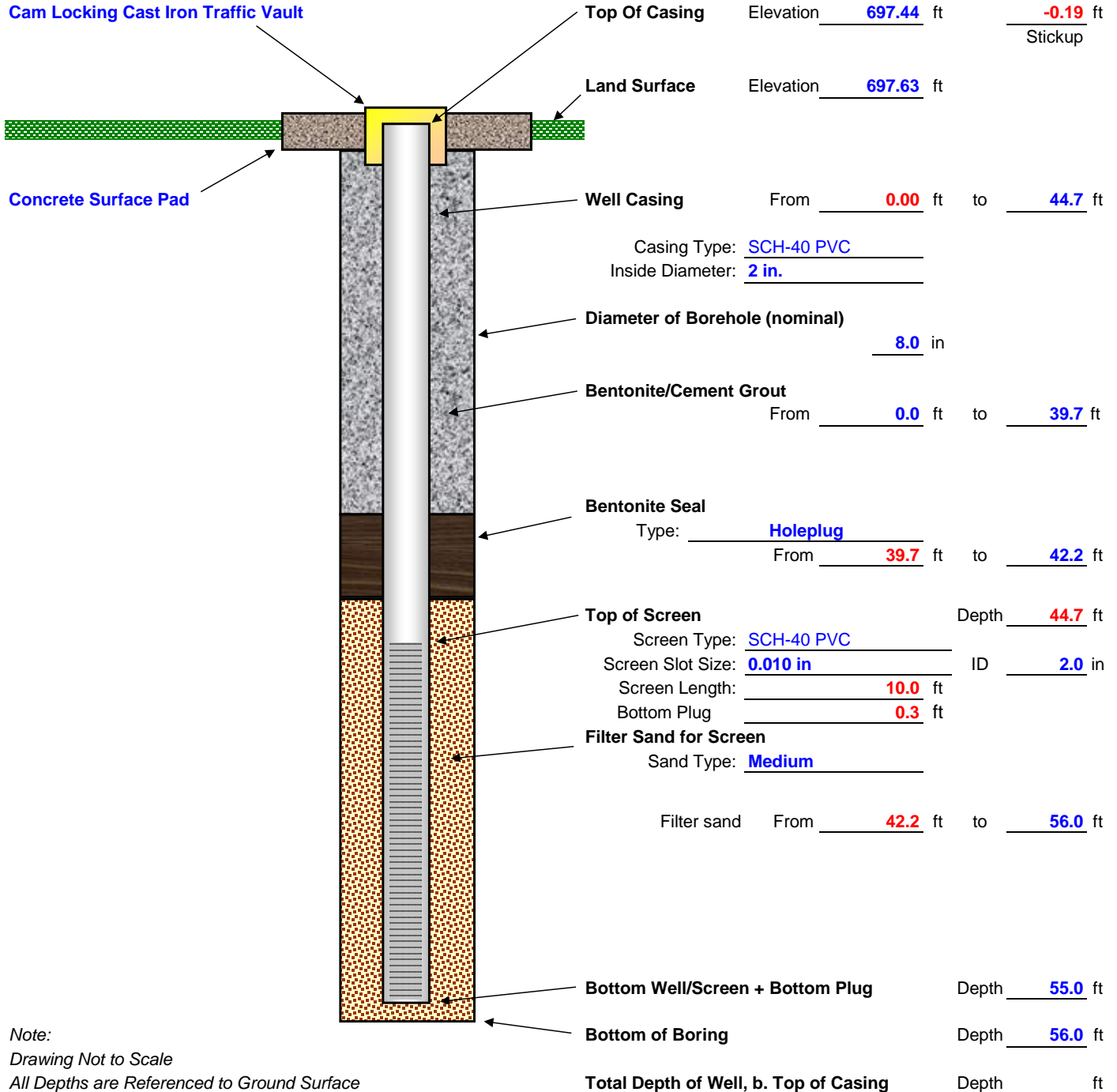
Project Name: <u>Auriga Spartanburg</u>	Drilling Co: <u>AE Drilling Services</u>	Well Number: <u>RW-119</u>
Location: <u>Bruckner Road</u>	Driller: <u>Dan Bergman</u>	Job Number: <u>60280417</u>
Client: <u>Celanese</u>	Drilling Method: <u>Mud/Air Rotary</u>	Surface Casing: <u>3/6/2014</u>
Geologist: <u>Mark Hartford</u>	Static Water Level: _____ b.TOC	Date Completed: <u>3/26/2014</u>
		Rock Drilling: _____
		Survey Datum: <u>NGVD '88</u>





GROUNDWATER MONITORING WELL INSTALLATION DETAIL

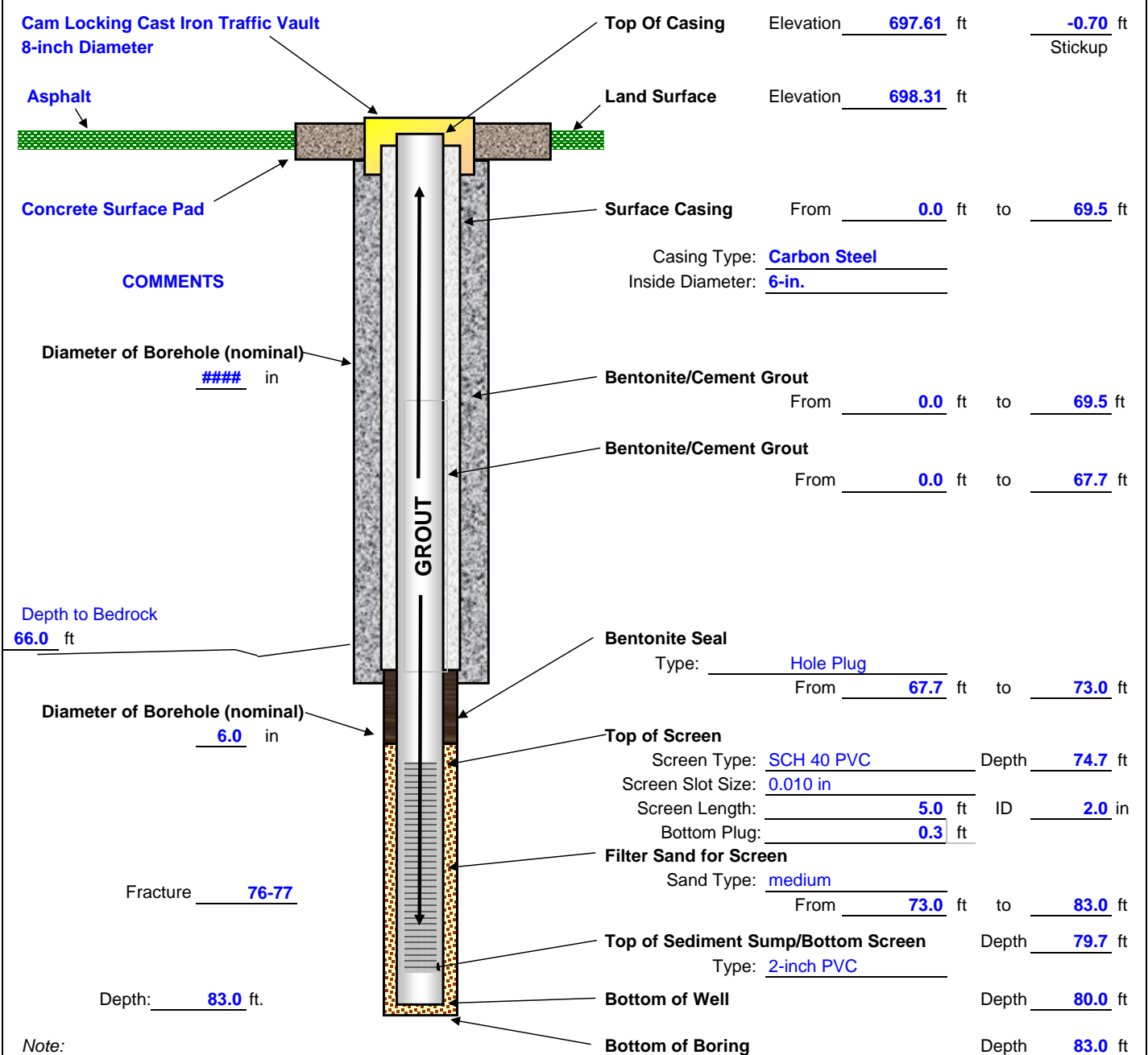
Project Name: <u>Auriga Spartanburg</u>	Drilling Co: <u>AE Drilling Services</u>	Well Number: <u>MW-120</u>
Location: _____	Driller: <u>Bergman</u>	Job Number: <u>60135440</u>
Client: <u>Celanese</u>	Drilling Method: <u>Hollow Stem Auger</u>	Date Completed: <u>12/6/2013</u>
Geologist: <u>Mark Hartford</u>	Static Water Level _____ b.TOC	Survey Datum: _____



Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground Surface

GROUNDWATER MONITORING WELL INSTALLATION DETAIL

Project Name: <u>Auriga Spartanburg</u>	Drilling Co: <u>AE Drilling Services</u>	Well Number: <u>RW-121</u>
Location: <u>Bruckner Road</u>	Driller: <u>Tommy Burnette</u>	Job Number: <u>60280417</u>
Client: <u>Celanese</u>	Drilling Method: <u>Mud/Air Rotary</u>	Surface Casing: <u>3/4/2014</u>
Geologist: <u>Mark Hartford/Mclver Law</u>	Static Water Level: _____ b.TOC	Date Completed: <u>3/26/2014</u>
		Rock Drilling: _____
		Survey Datum: <u>NGVD '88</u>

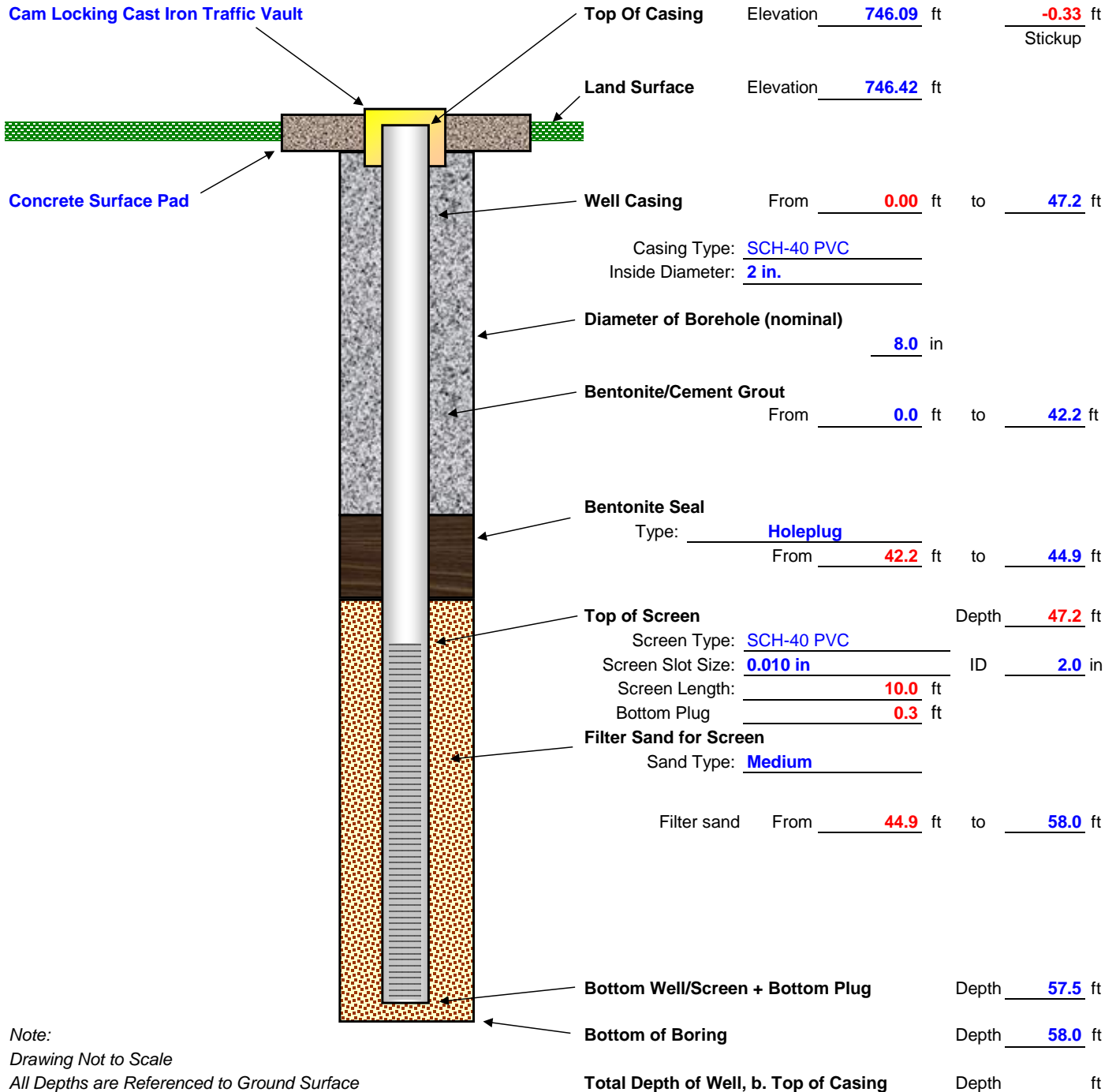


Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground



GROUNDWATER MONITORING WELL INSTALLATION DETAIL

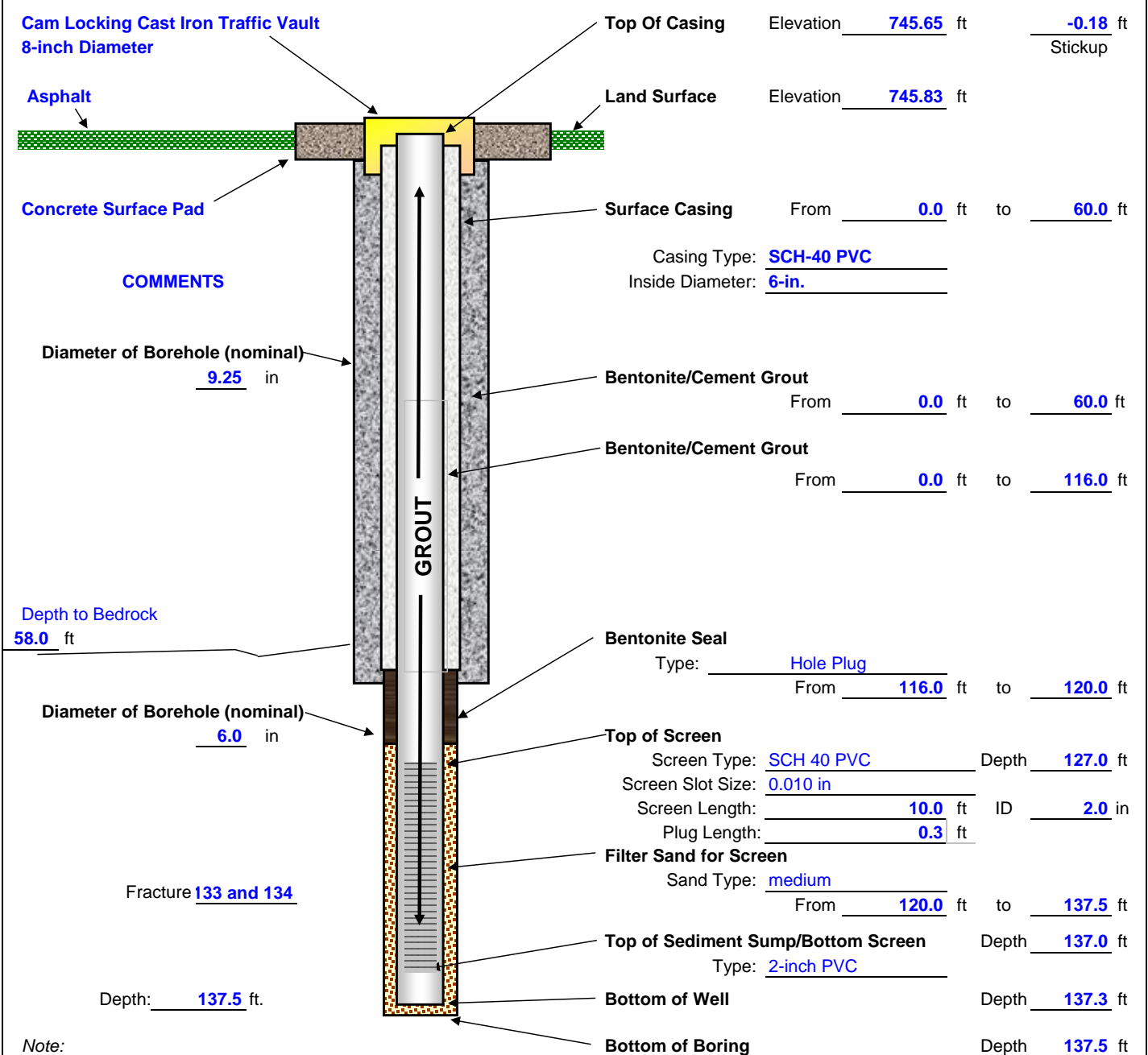
Project Name: Auriga Spartanburg **Drilling Co:** AE Drilling Services **Well Number:** MW-122
Location: Recreation Building **Driller:** Bergman **Job Number:** 60135440
Client: Celanese **Drilling Method:** Hollow Stem Auger **Date Completed:** 12/11/2013
Geologist: Mark Hartford **Static Water Level** _____ **b.TOC** **Survey Datum:** _____



Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground Surface

GROUNDWATER MONITORING WELL INSTALLATION DETAIL

Project Name: <u>Auriga Spartanburg</u>	Drilling Co: <u>AE Drilling Services</u>	Well Number: <u>RW-123</u>
Location: <u>Recreation Building</u>	Driller: <u>Tommy Burnette</u>	Job Number: <u>60280417</u>
Client: <u>Celanese</u>	Drilling Method: <u>Mud/Air Rotary</u>	Surface Casing: <u>1/24/2014</u>
Geologist: <u>Mark Hartford</u>	Static Water Level: _____ b.TOC	Date Completed: <u>3/28/2014</u>
		Rock Drilling: _____
		Survey Datum: <u>NGVD '88</u>

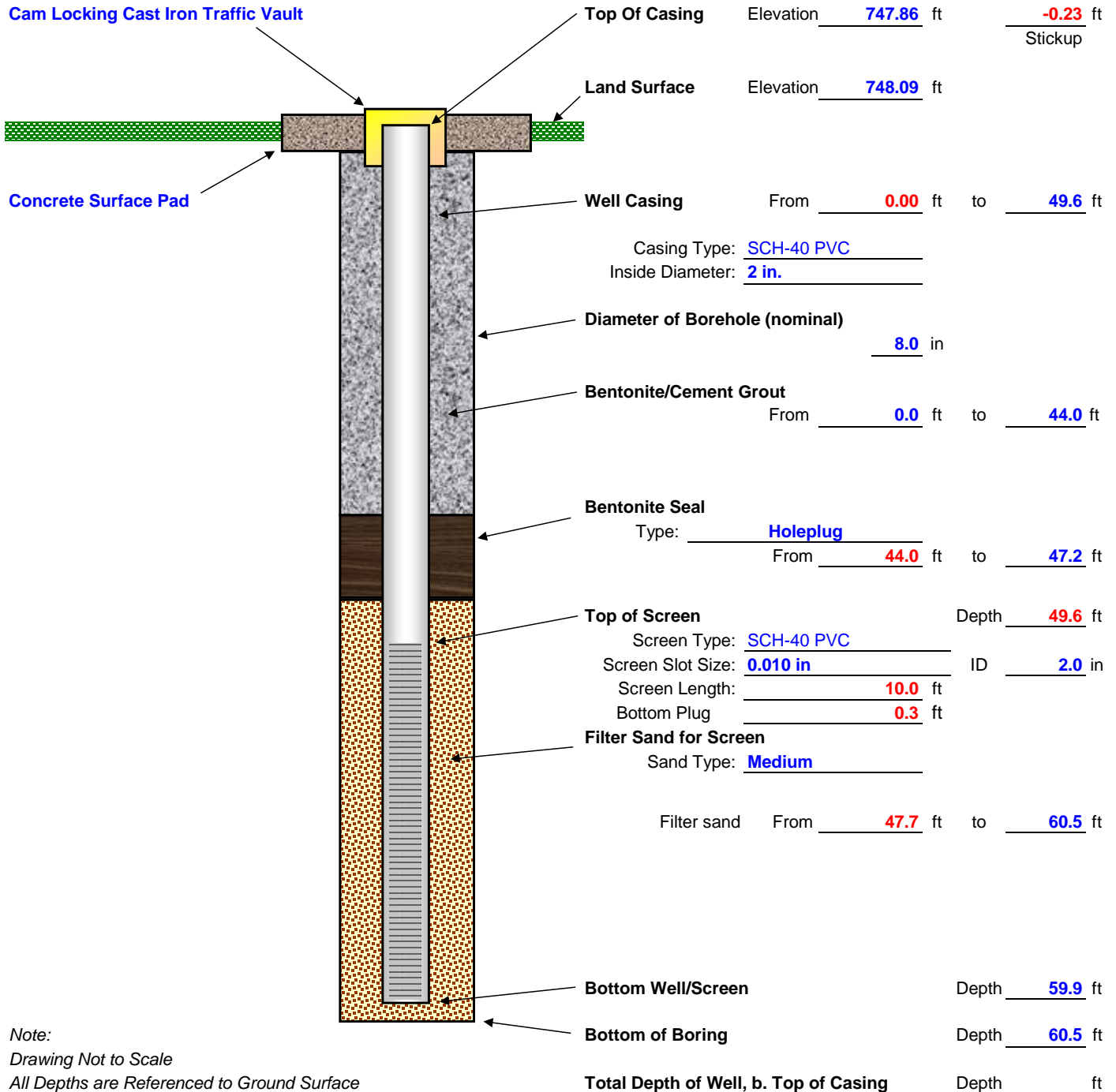


Note:
Drawing Not to Scale
All Depths are Referenced to Ground



GROUNDWATER MONITORING WELL INSTALLATION DETAIL

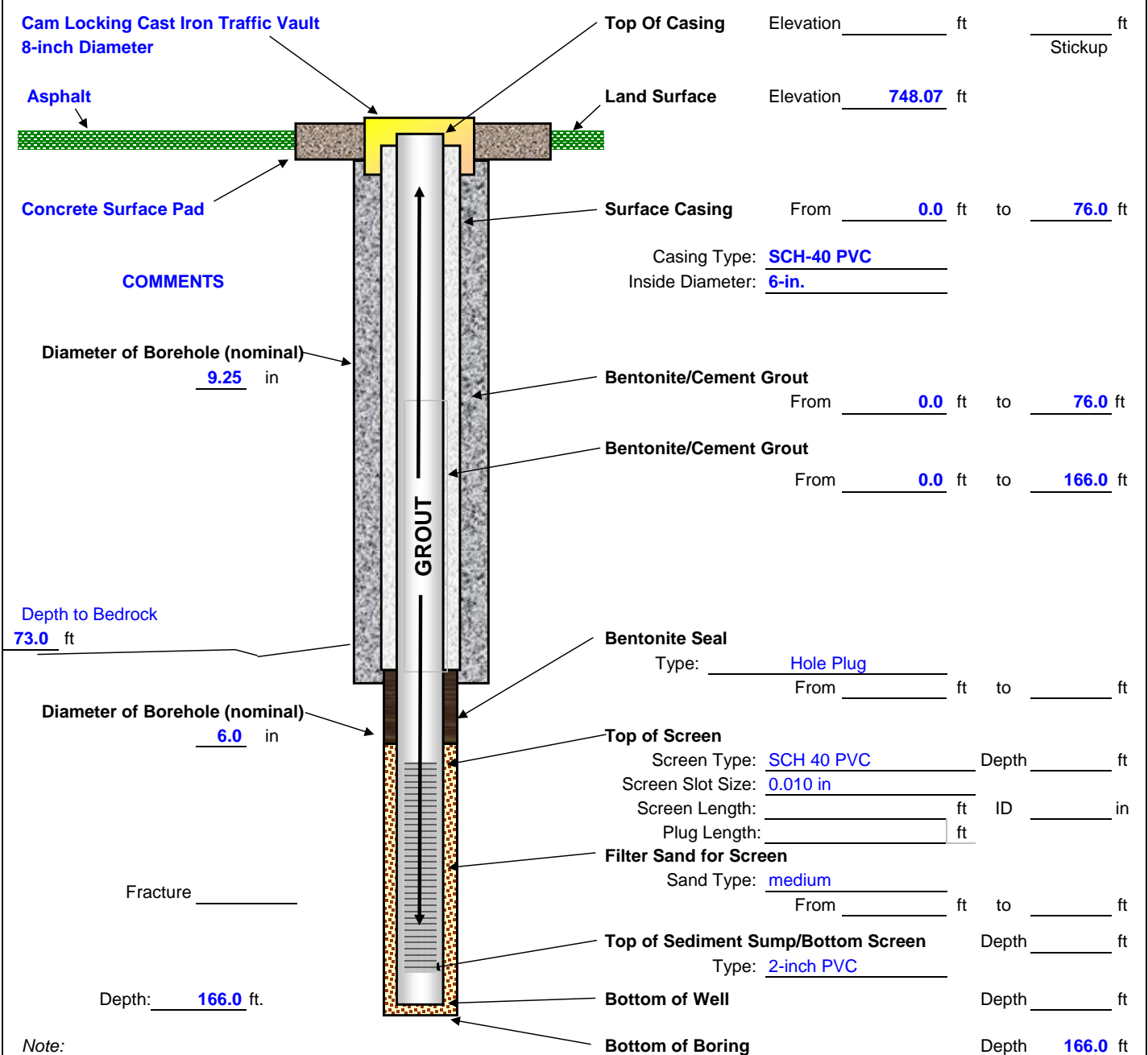
Project Name: Auriga Spartanburg **Drilling Co:** AE Drilling Services **Well Number:** MW-124
Location: Recreation Building **Driller:** Bergman **Job Number:** 60135440
Client: Celanese **Drilling Method:** Hollow Stem Auger **Date Completed:** 12/12/2013
Geologist: Mark Hartford **Static Water Level** _____ **b.TOC** **Survey Datum:** _____



Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground Surface

GROUNDWATER MONITORING WELL INSTALLATION DETAIL

Project Name: <u>Auriga Spartanburg</u>	Drilling Co: <u>AE Drilling Services</u>	Well Number: <u>RW-125</u>
Location: <u>Recreation Building</u>	Driller: <u>Tommy Burnette</u>	Job Number: <u>60280417</u>
Client: <u>Celanese</u>	Drilling Method: <u>Mud/Air Rotary</u>	Surface Casing: <u>1/22/2014</u>
Geologist: <u>Mark Hartford</u>	Static Water Level: _____ b.TOC	Date Completed: <u>Abandoned 3-12-14</u>
		Rock Drilling: <u>2/21/2014</u>
		Survey Datum: <u>NGVD '88</u>

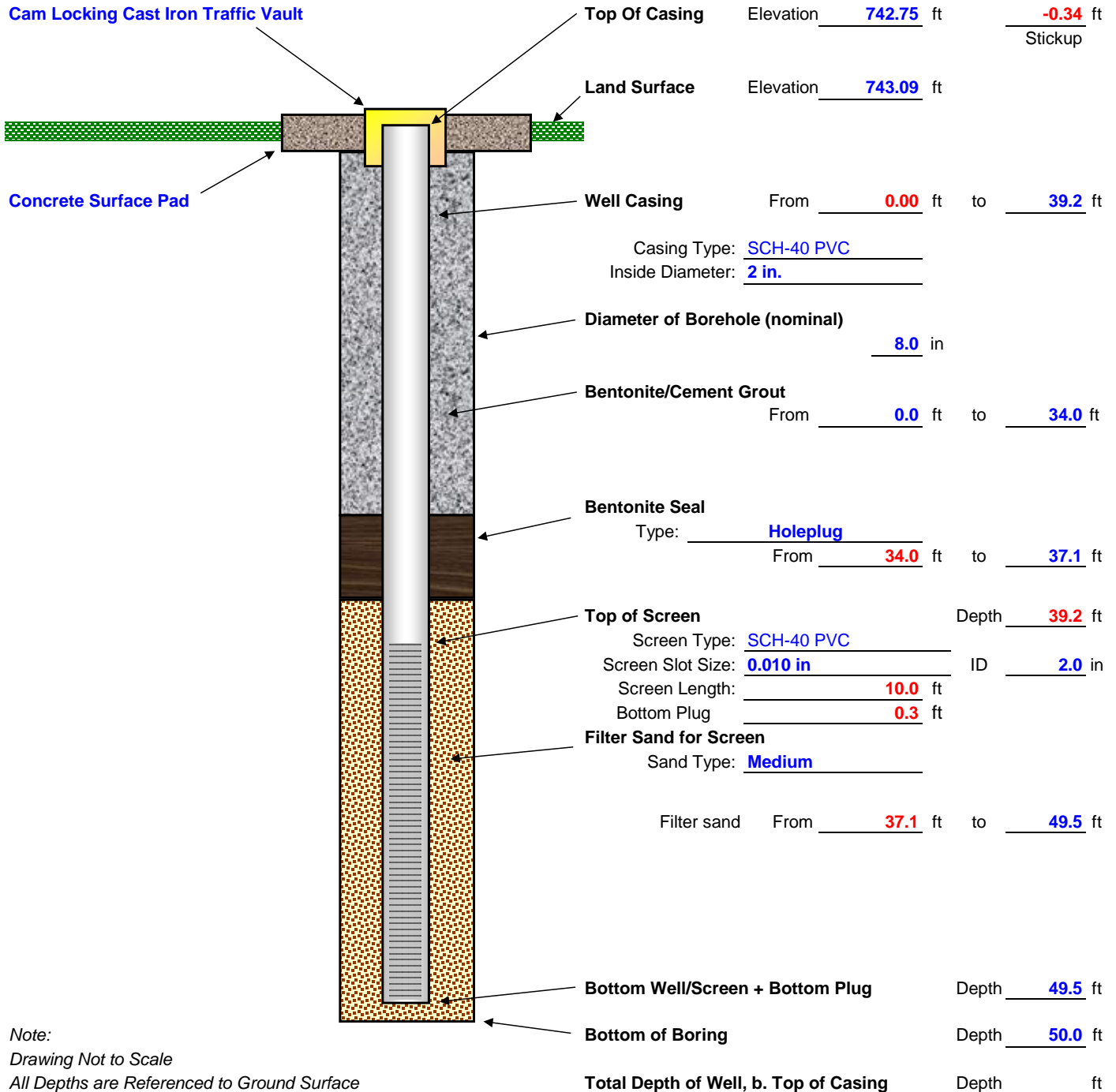


Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground



GROUNDWATER MONITORING WELL INSTALLATION DETAIL

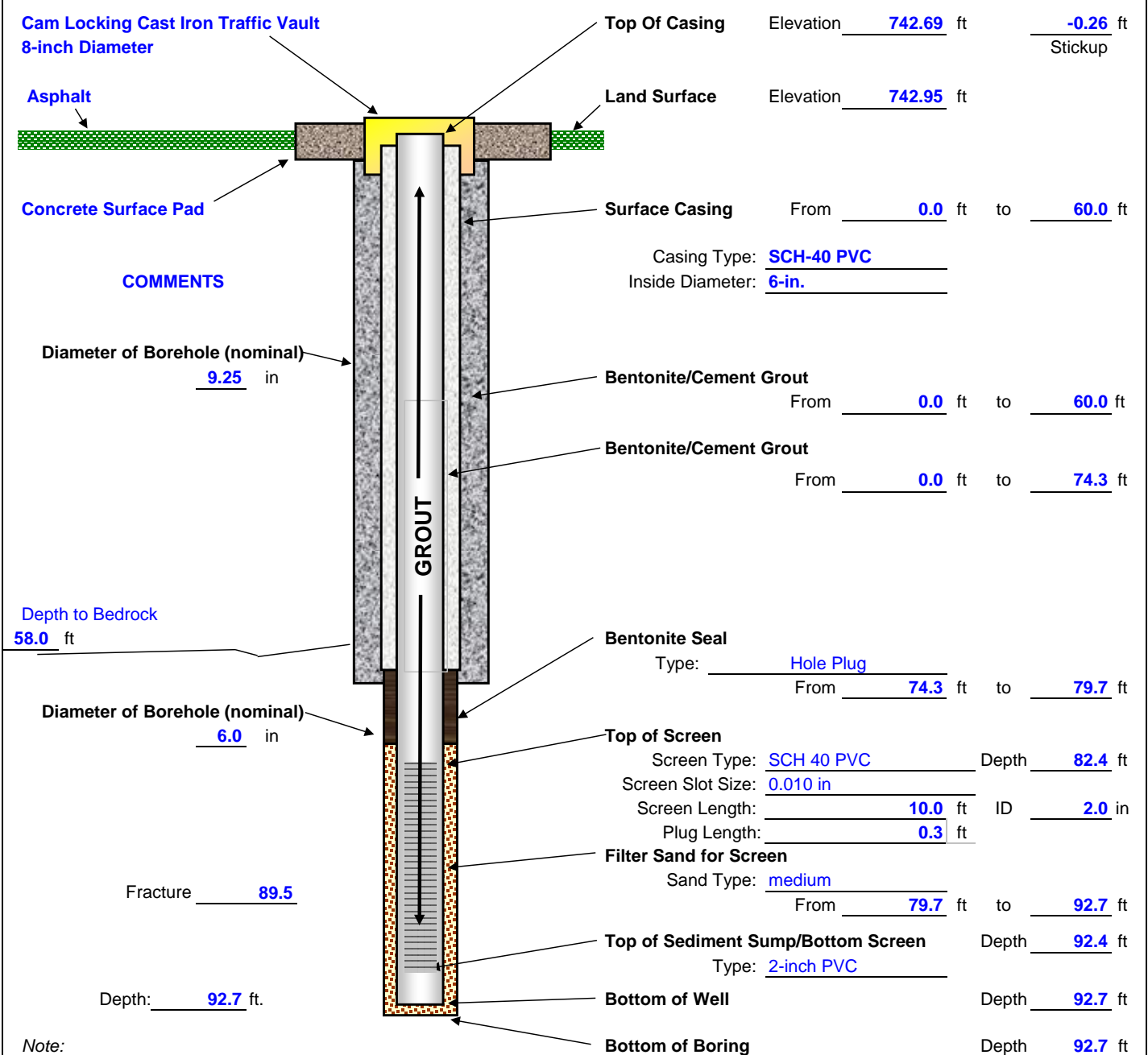
Project Name: <u>Auriga Spartanburg</u>	Drilling Co: <u>AE Drilling Services</u>	Well Number: <u>MW-126</u>
Location: <u>Recreation Building</u>	Driller: <u>Bergman</u>	Job Number: <u>60135440</u>
Client: <u>Celanese</u>	Drilling Method: <u>Hollow Stem Auger</u>	Date Completed: <u>12/12/2013</u>
Geologist: <u>Mark Hartford</u>	Static Water Level _____ b.TOC	Survey Datum: _____



Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground Surface

GROUNDWATER MONITORING WELL INSTALLATION DETAIL

Project Name: <u>Auriga Spartanburg</u>	Drilling Co: <u>AE Drilling Services</u>	Well Number: <u>RW-127</u>
Location: <u>Air Liquide</u>	Driller: <u>Tommy Burnette</u>	Job Number: <u>60280417</u>
Client: <u>Celanese</u>	Drilling Method: <u>Mud/Air Rotary</u>	Surface Casing: <u>1/9/2014</u>
Geologist: <u>Mark Hartford</u>	Static Water Level: _____ b.TOC	Date Completed: <u>3/31/2014</u>
		Rock Drilling: _____
		Survey Datum: <u>NGVD '88</u>

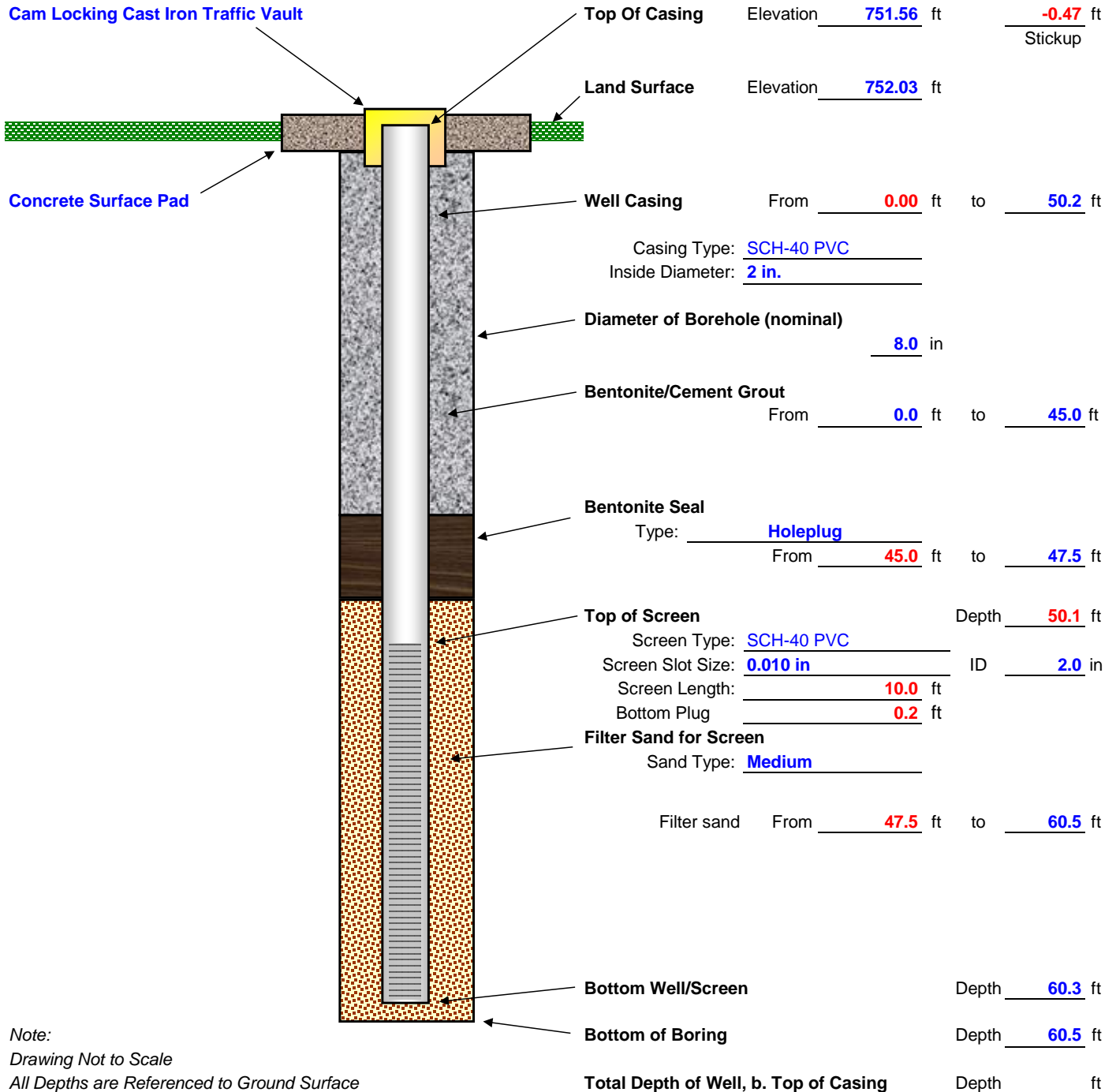


Note:
Drawing Not to Scale
All Depths are Referenced to Ground



GROUNDWATER MONITORING WELL INSTALLATION DETAIL

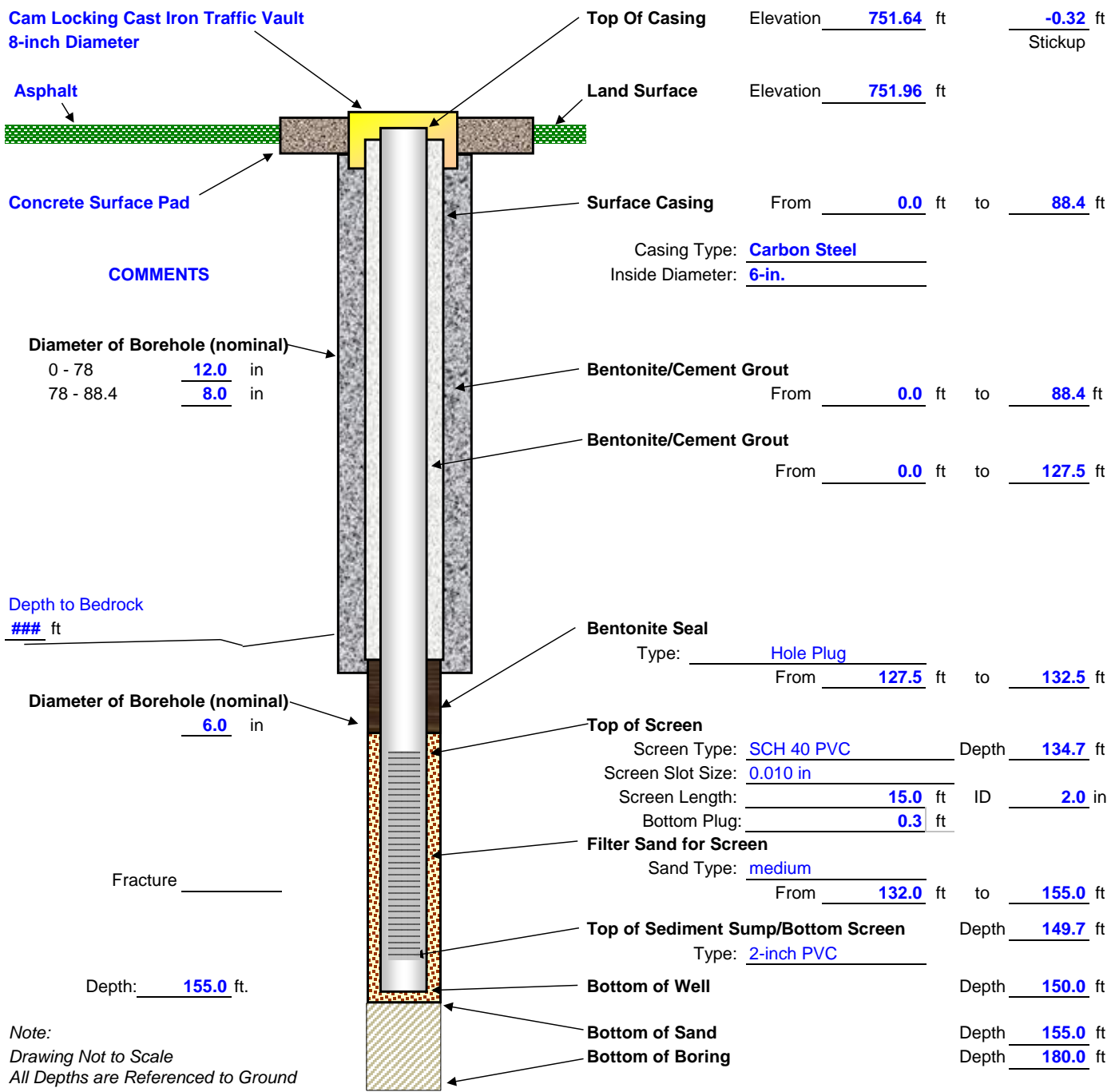
Project Name: Auriga Spartanburg **Drilling Co:** AE Drilling Services **Well Number:** MW-128
Location: Between Recreation Bu **Driller:** Bergman **Job Number:** 60135440
Client: Celanese **Drilling Method:** Hollow Stem Auger **Date Completed:** 12/17/2013
Geologist: Mark Hartford **Static Water Level** _____ **b.TOC** **Survey Datum:** _____



Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground Surface

GROUNDWATER MONITORING WELL INSTALLATION DETAIL

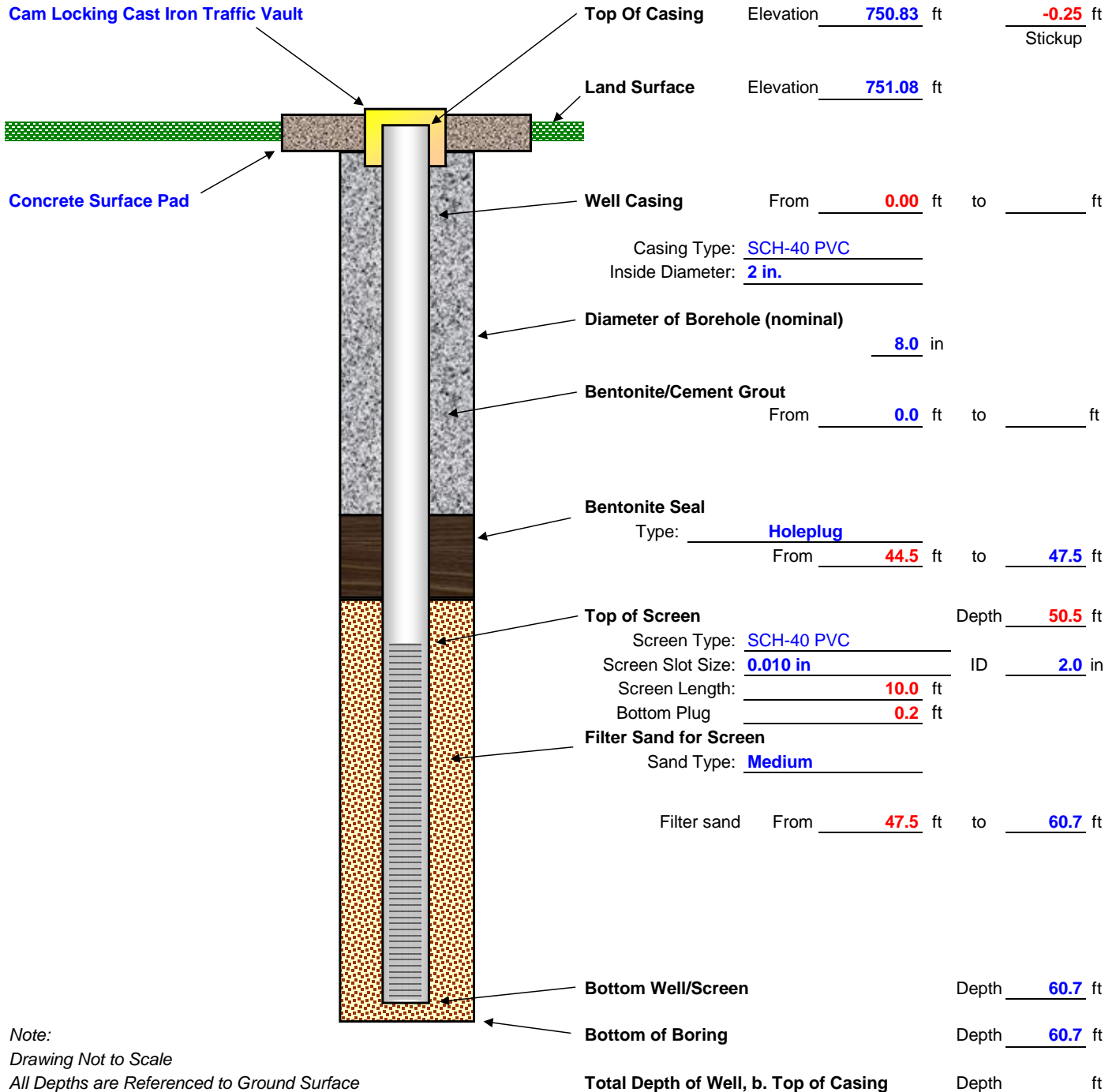
Project Name: <u>Auriga Spartanburg</u>	Drilling Co: <u>AE Drilling Services</u>	Well Number: <u>RW-129</u>
Location: _____	Driller: <u>Tommy Burnette</u>	Job Number: <u>60280417</u>
Client: <u>Celanese</u>	Drilling Method: <u>HSA/Air Rotary</u>	Surface Casing: <u>2/5/2014</u>
Geologist: <u>Mark Hartford</u>	Static Water Level: _____ b.TOC	Date Completed: <u>3/25/2014</u>
		Rock Drilling: _____
		Survey Datum: <u>NGVD '88</u>





GROUNDWATER MONITORING WELL INSTALLATION DETAIL

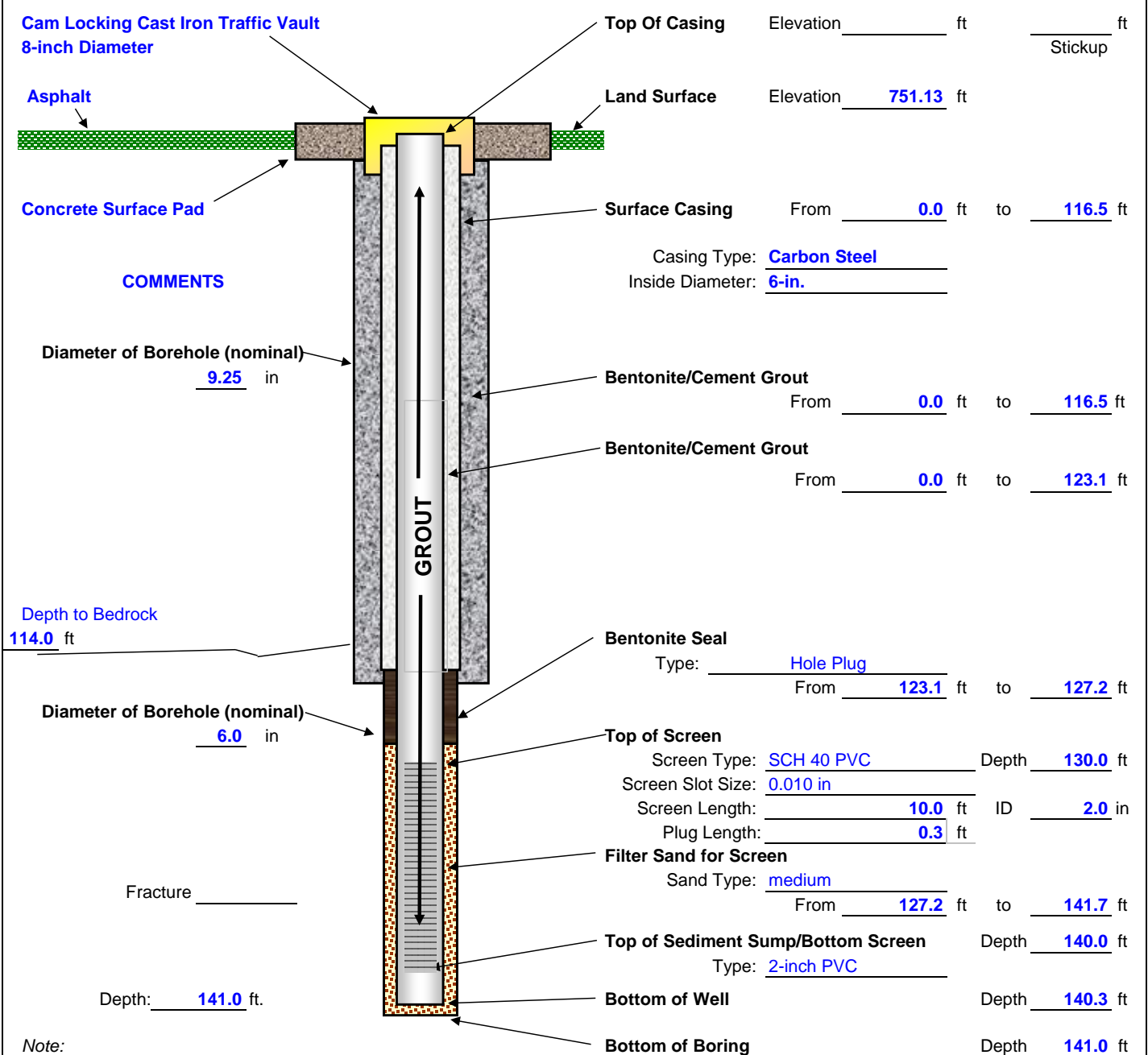
Project Name: <u>Auriga Spartanburg</u>	Drilling Co: <u>AE Drilling Services</u>	Well Number: <u>MW-130</u>
Location: <u>Air Liquide</u>	Driller: <u>Bergman</u>	Job Number: <u>60135440</u>
Client: <u>Celanese</u>	Drilling Method: <u>Hollow Stem Auger</u>	Date Completed: <u>12/17/2013</u>
Geologist: <u>Mark Hartford</u>	Static Water Level _____ b.TOC	Survey Datum: _____



Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground Surface

GROUNDWATER MONITORING WELL INSTALLATION DETAIL

Project Name: <u>Auriga Spartanburg</u>	Drilling Co: <u>AE Drilling Services</u>	Well Number: <u>RW-131</u>
Location: <u>Air Liquide</u>	Driller: <u>Tommy Burnette</u>	Job Number: <u>60280417</u>
Client: <u>Celanese</u>	Drilling Method: <u>Mud/Air Rotary</u>	Surface Casing: <u>1/31/2014</u>
Geologist: <u>Mark Hartford</u>	Static Water Level: _____ b.TOC	Date Completed: <u>3/25/2014</u>
		Rock Drilling: _____
		Survey Datum: <u>NGVD '88</u>

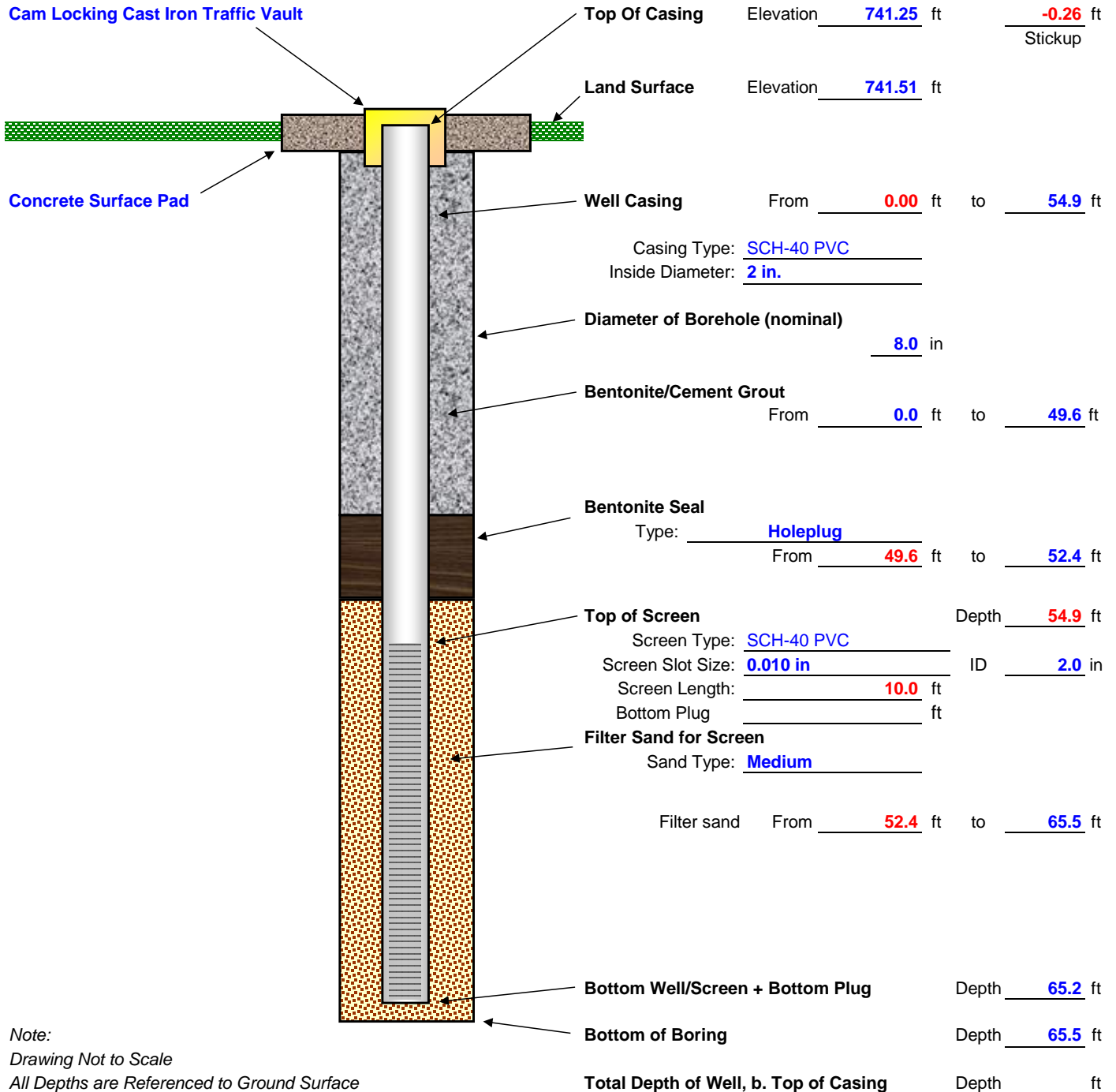


Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground



GROUNDWATER MONITORING WELL INSTALLATION DETAIL

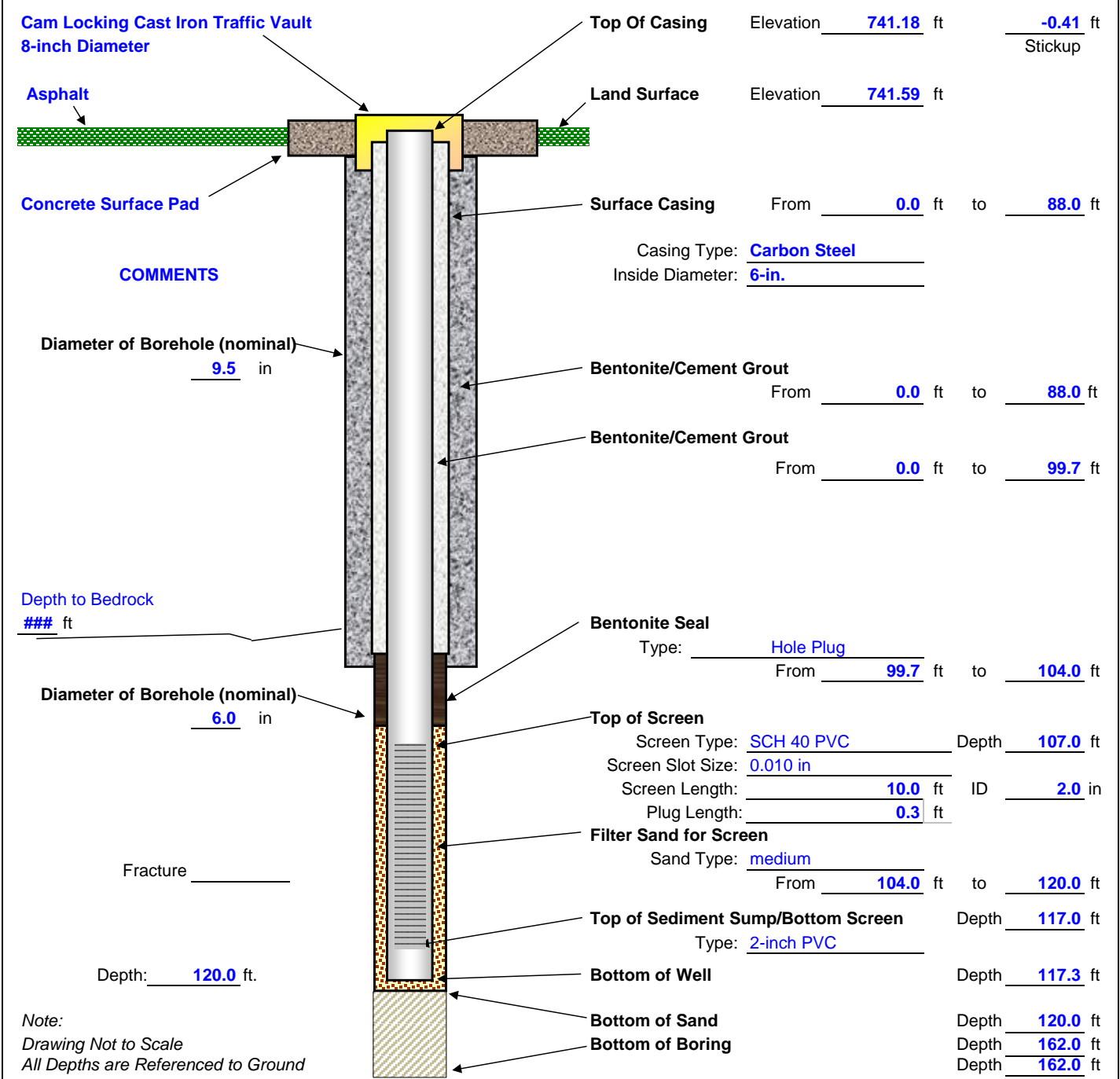
Project Name: Auriga Spartanburg **Drilling Co:** AE Drilling Services **Well Number:** MW-132
Location: Maintenance Building **Driller:** Bergman **Job Number:** 60135440
Client: Celanese **Drilling Method:** Hollow Stem Auger **Date Completed:** 12/18/2013
Geologist: Mark Hartford **Static Water Level** _____ **b.TOC** **Survey Datum:** _____



Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground Surface

GROUNDWATER MONITORING WELL INSTALLATION DETAIL

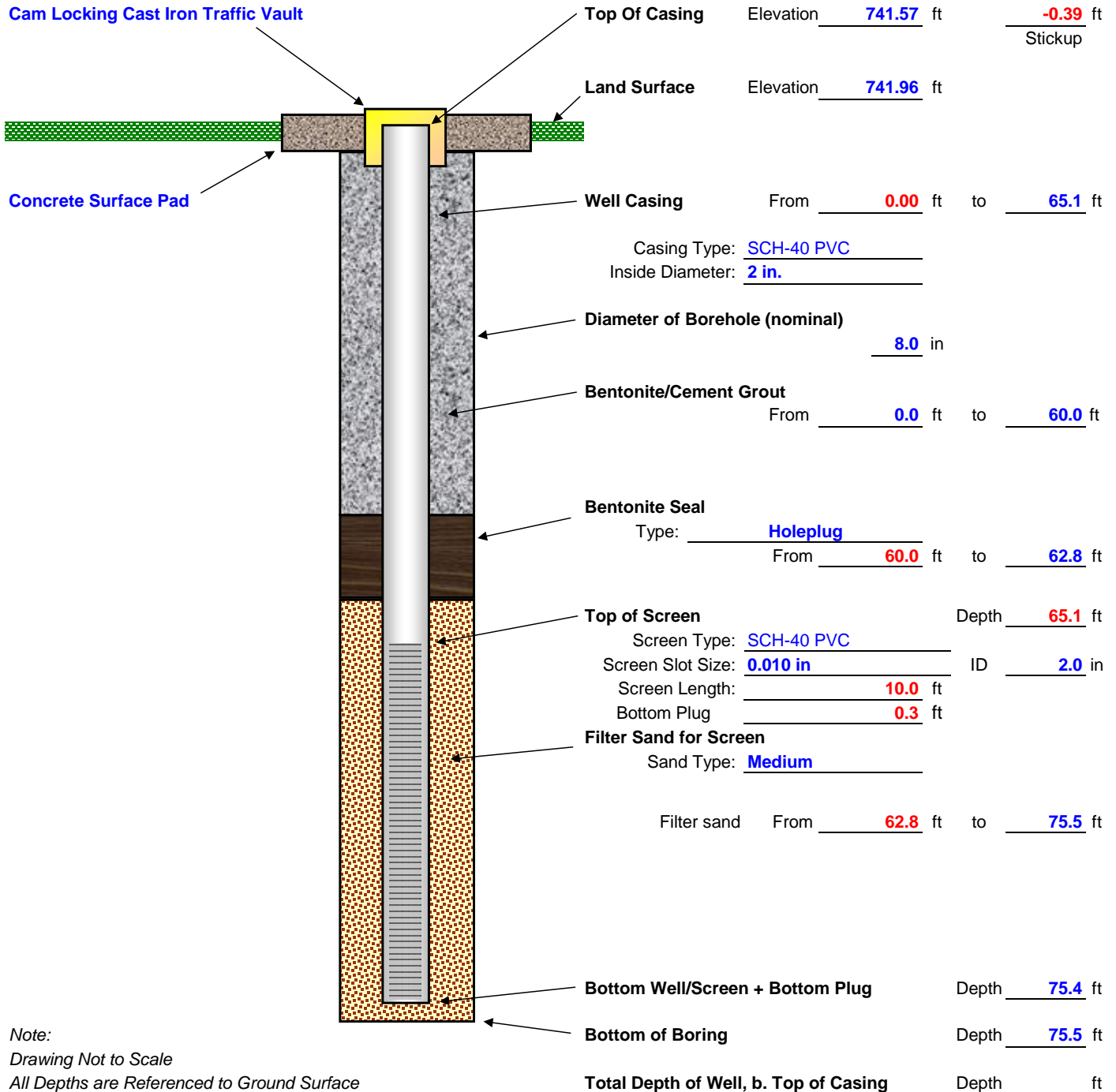
Project Name: <u>Auriga Spartanburg</u>	Drilling Co: <u>AE Drilling Services</u>	Well Number: <u>RW-133</u>
Location: _____	Driller: <u>Tommy Burnette</u>	Job Number: <u>60280417</u>
Client: <u>Celanese</u>	Drilling Method: <u>Mud/Air Rotary</u>	Surface Casing: <u>2/17/2014</u>
Geologist: <u>Mark Hartford</u>	Static Water Level: _____ b.TOC	Date Completed: <u>3/25/2014</u>
		Rock Drilling: _____
		Survey Datum: <u>NGVD '88</u>





GROUNDWATER MONITORING WELL INSTALLATION DETAIL

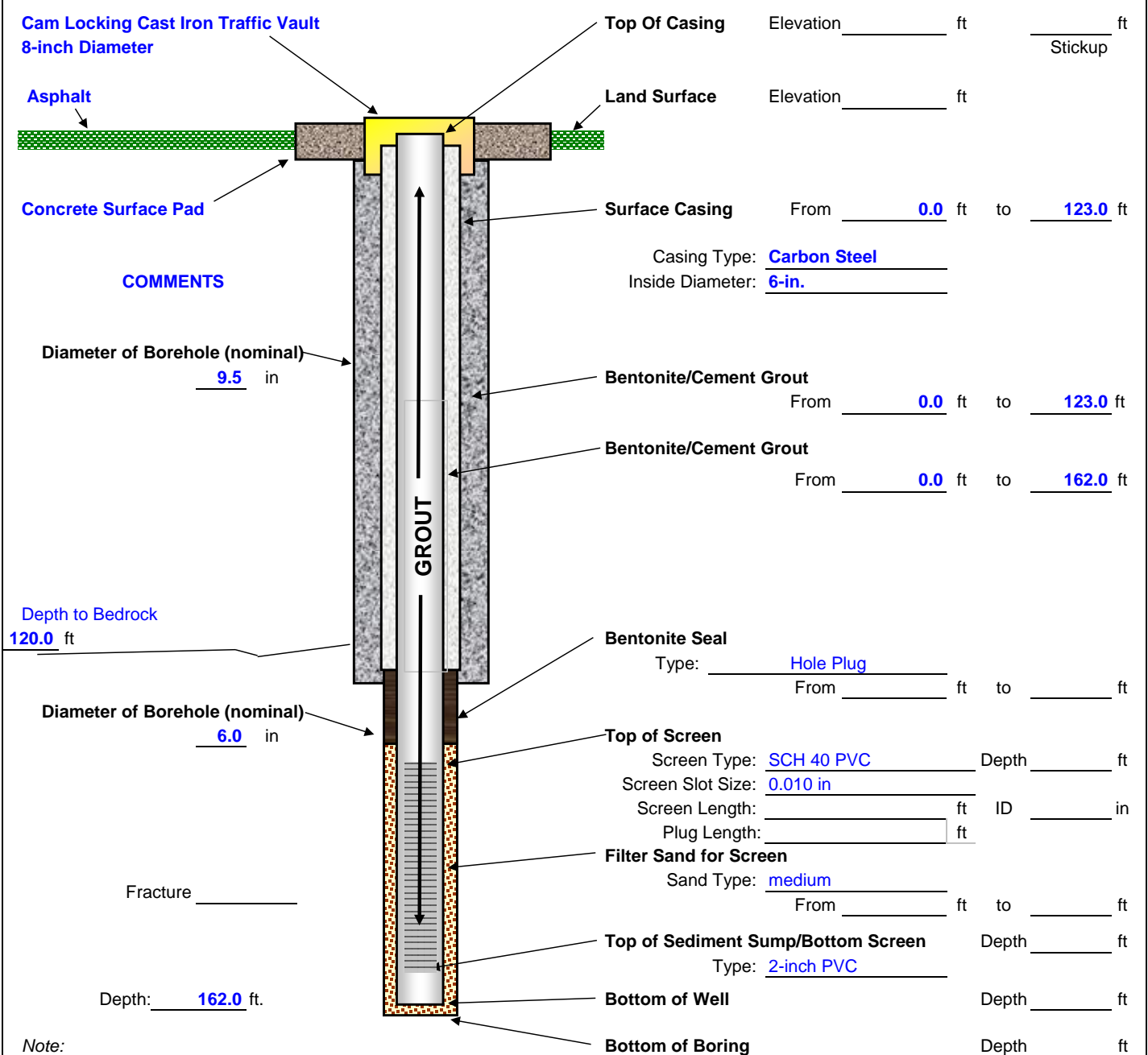
Project Name: Auriga Spartanburg **Drilling Co:** AE Drilling Services **Well Number:** MW-134
Location: South Side of Maintena **Driller:** Bergman **Job Number:** 60135440
Client: Celanese **Drilling Method:** Hollow Stem Auger **Date Completed:** 12/19/2013
Geologist: Mark Hartford **Static Water Level** _____ **b.TOC** **Survey Datum:** _____



Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground Surface

GROUNDWATER MONITORING WELL INSTALLATION DETAIL

Project Name: <u>Auriga Spartanburg</u>	Drilling Co: <u>AE Drilling Services</u>	Well Number: <u>RW-135</u>
Location: <u>Maintenance Bldg.</u>	Driller: <u>Tommy Burnette</u>	Job Number: <u>60280417</u>
Client: <u>Celanese</u>	Drilling Method: <u>Mud/Air Rotary</u>	Surface Casing: <u>2/18/2014</u>
Geologist: <u>Mark Hartford</u>	Static Water Level: _____ b.TOC	Date Completed: <u>Abandoned 3-27-14</u>
		Rock Drilling: _____
		Survey Datum: <u>NGVD '88</u>

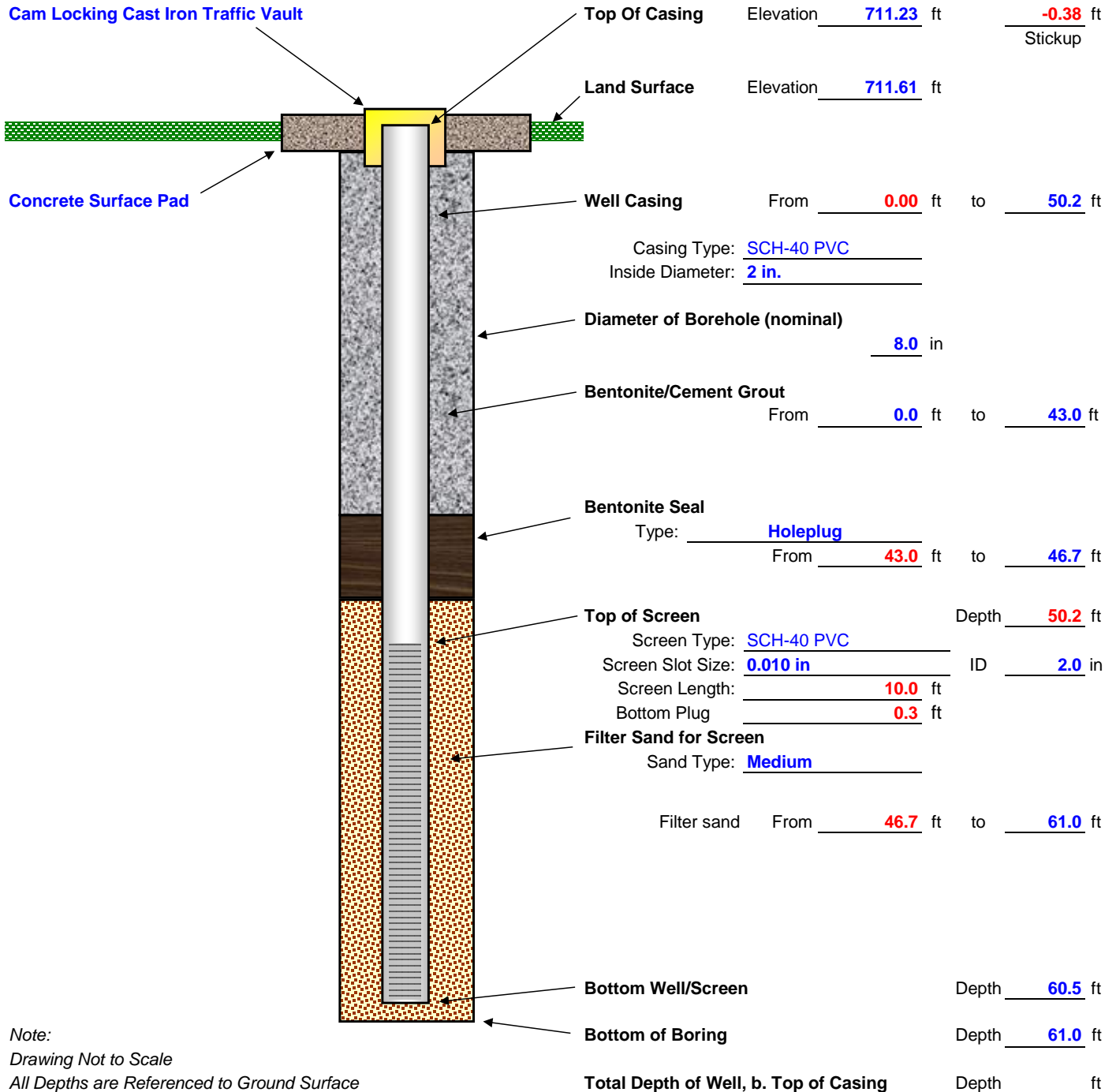


Note:
Drawing Not to Scale
All Depths are Referenced to Ground



GROUNDWATER MONITORING WELL INSTALLATION DETAIL

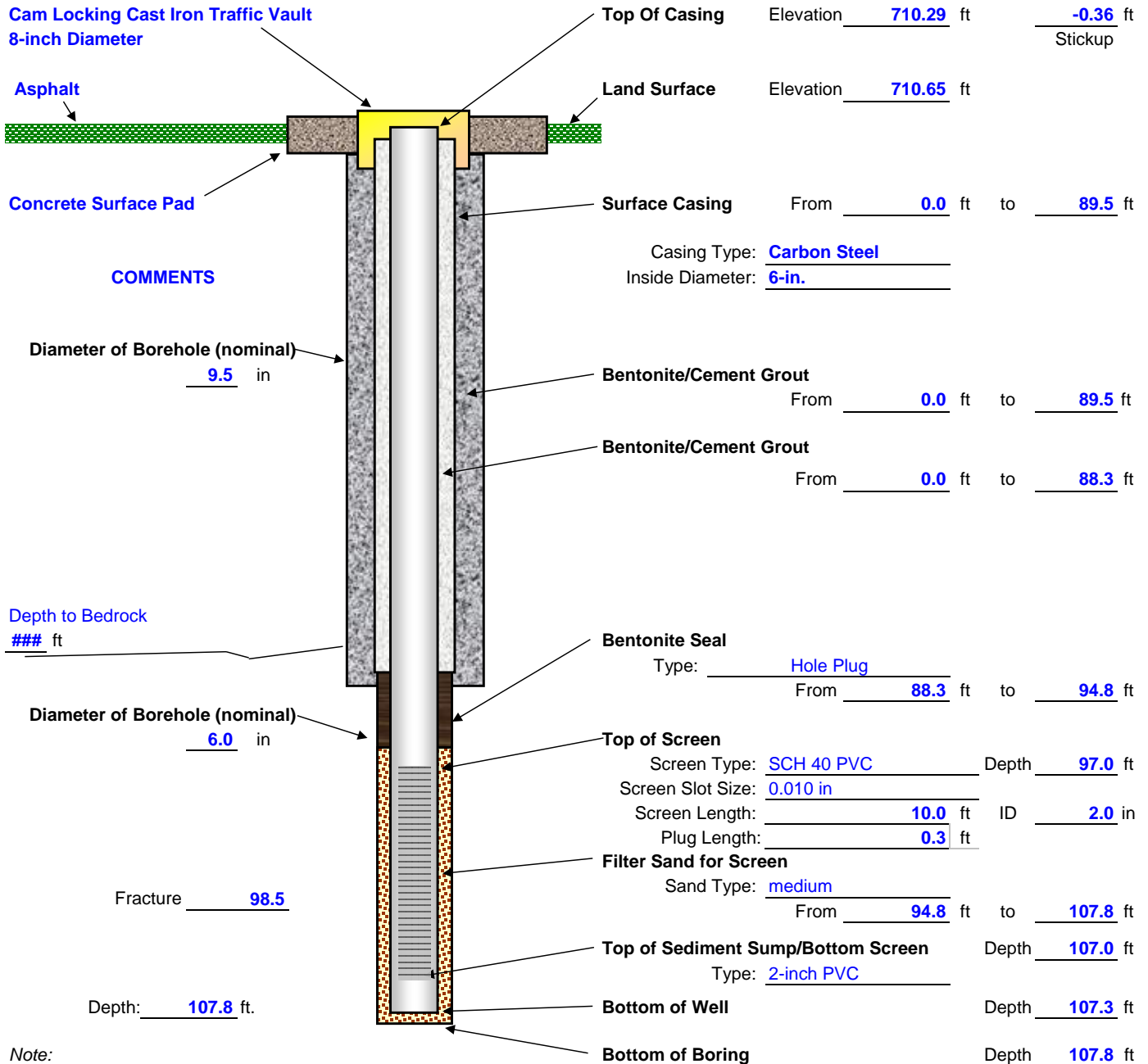
Project Name: Auriga Spartanburg **Drilling Co:** AE Drilling Services **Well Number:** MW-136
Location: East of Air Liquide **Driller:** Bergman **Job Number:** 60135440
Client: Celanese **Drilling Method:** Hollow Stem Auger **Date Completed:** 12/13/2013
Geologist: Mark Hartford **Static Water Level** _____ **b.TOC** **Survey Datum:** _____



Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground Surface

GROUNDWATER MONITORING WELL INSTALLATION DETAIL

Project Name: <u>Auriga Spartanburg</u>	Drilling Co: <u>AE Drilling Services</u>	Well Number: <u>RW-137</u>
Location: <u>EW-44 Area</u>	Driller: <u>Dan Bergman</u>	Job Number: <u>60280417</u>
Client: <u>Celanese</u>	Drilling Method: <u>Mud/Air Rotary</u>	Surface Casing: <u>2/19/2014</u>
Geologist: <u>Mark Hartford</u>	Static Water Level: _____ b.TOC	Date Completed: <u>2/26/2014</u>
		Rock Drilling: <u>2/25/2014</u>
		Survey Datum: <u>NGVD '88</u>

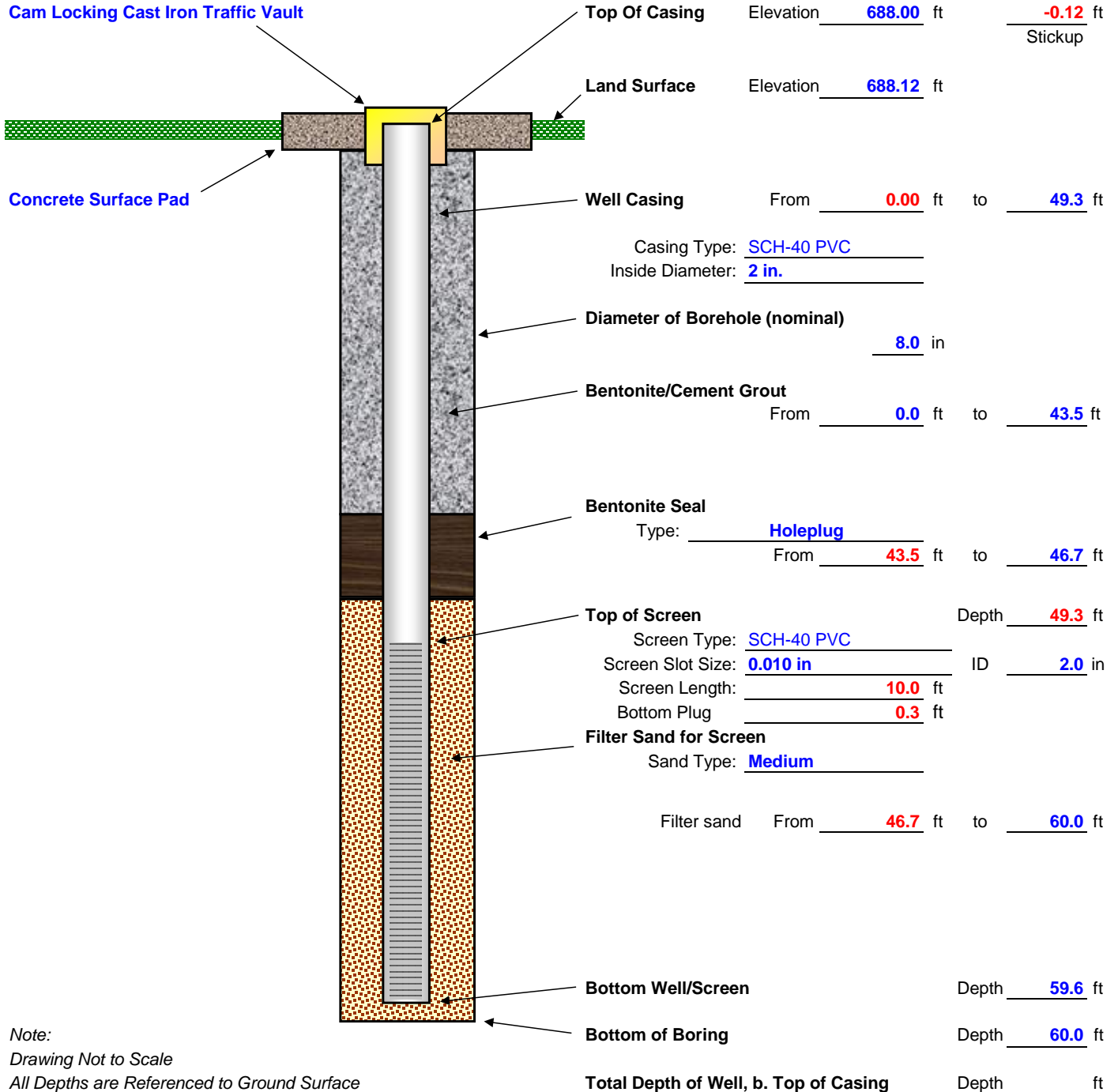


Note:
Drawing Not to Scale
All Depths are Referenced to Ground



GROUNDWATER MONITORING WELL INSTALLATION DETAIL

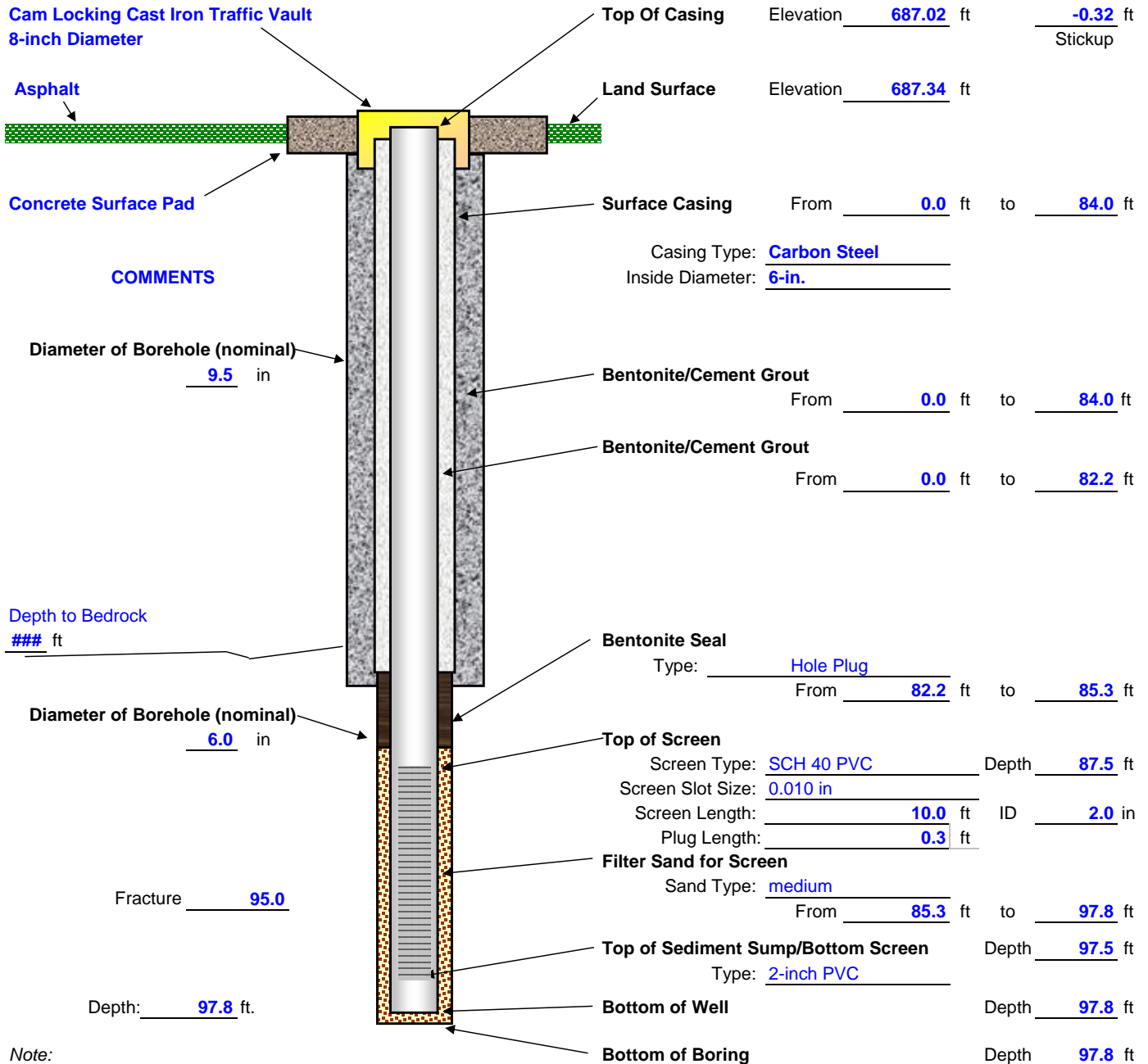
Project Name: Auriga Spartanburg **Drilling Co:** AE Drilling Services **Well Number:** MW-138
Location: East of Air Liquide **Driller:** Bergman **Job Number:** 60135440
Client: Celanese **Drilling Method:** Hollow Stem Auger **Date Completed:** 12/16/2013
Geologist: Mark Hartford **Static Water Level** _____ **b.TOC** **Survey Datum:** _____



Note:
 Drawing Not to Scale
 All Depths are Referenced to Ground Surface

GROUNDWATER MONITORING WELL INSTALLATION DETAIL

Project Name: <u>Auriga Spartanburg</u>	Drilling Co: <u>AE Drilling Services</u>	Well Number: <u>RW-139</u>
Location: _____	Driller: <u>Dan Bergman</u>	Job Number: <u>60280417</u>
Client: <u>Celanese</u>	Drilling Method: <u>Mud/Air Rotary</u>	Surface Casing: <u>2/21/2014</u>
Geologist: <u>Mark Hartford</u>	Static Water Level: _____ b.TOC	Date Completed: <u>2/26/2014</u>
		Rock Drilling: <u>2/24/2014</u>
		Survey Datum: <u>NGVD '88</u>



Note:
Drawing Not to Scale
All Depths are Referenced to Ground

February 17, 2014

Mr. John McCord
Davis & Floyd Labs
P.O. Box 428
Greenwood, SC 29648

RE: Project: 061576.08 Fmr HC/Spartanburg
Pace Project No.: 92189502

Dear Mr. McCord:

Enclosed are the analytical results for sample(s) received by the laboratory on February 11, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 061576.08 Fmr HC/Spartanburg

Pace Project No.: 92189502

Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 061576.08 Fmr HC/Spartanburg

Pace Project No.: 92189502

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92189502001	RW-129-105	EPA 8260	MCK	4	PASI-C
92189502002	RW-129-120	EPA 8260	MCK	4	PASI-C
92189502003	MW-0001	EPA 8260	MCK	4	PASI-C

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 061576.08 Fmr HC/Spartanburg

Pace Project No.: 92189502

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92189502001	RW-129-105					
EPA 8260	Chloroform	3880	ug/L	250	02/14/14 13:10	
92189502002	RW-129-120					
EPA 8260	Chloroform	3290	ug/L	250	02/14/14 13:26	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 061576.08 Fmr HC/Spartanburg

Pace Project No.: 92189502

Sample: RW-129-105		Lab ID: 92189502001	Collected: 02/10/14 15:05	Received: 02/11/14 16:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Chloroform	3880	ug/L	250	50		02/14/14 13:10	67-66-3	
Surrogates								
4-Bromofluorobenzene (S)	100 %		70-130	50		02/14/14 13:10	460-00-4	
1,2-Dichloroethane-d4 (S)	97 %		70-130	50		02/14/14 13:10	17060-07-0	
Toluene-d8 (S)	96 %		70-130	50		02/14/14 13:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 061576.08 Fmr HC/Spartanburg

Pace Project No.: 92189502

Sample: RW-129-120		Lab ID: 92189502002	Collected: 02/11/14 10:12	Received: 02/11/14 16:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Chloroform	3290	ug/L	250	50		02/14/14 13:26	67-66-3	
Surrogates								
4-Bromofluorobenzene (S)	98 %		70-130	50		02/14/14 13:26	460-00-4	
1,2-Dichloroethane-d4 (S)	96 %		70-130	50		02/14/14 13:26	17060-07-0	
Toluene-d8 (S)	98 %		70-130	50		02/14/14 13:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 061576.08 Fmr HC/Spartanburg

Pace Project No.: 92189502

Sample: MW-0001	Lab ID: 92189502003	Collected: 02/11/14 13:00	Received: 02/11/14 16:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chloroform	ND ug/L		5.0	1		02/14/14 13:42	67-66-3	
Surrogates								
4-Bromofluorobenzene (S)	98 %		70-130	1		02/14/14 13:42	460-00-4	
1,2-Dichloroethane-d4 (S)	97 %		70-130	1		02/14/14 13:42	17060-07-0	
Toluene-d8 (S)	97 %		70-130	1		02/14/14 13:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 061576.08 Fmr HC/Spartanburg

Pace Project No.: 92189502

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 061576.08 Fmr HC/Spartanburg

Pace Project No.: 92189502

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92189502001	RW-129-105	EPA 8260	MSV/25798		
92189502002	RW-129-120	EPA 8260	MSV/25798		
92189502003	MW-0001	EPA 8260	MSV/25798		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt (SCUR)

Document Number:
F-CHR-CS-03-rev.13

Issuing Authority:
Pace Huntersville Quality Office

Client Name: Davis + Floyd

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used: IR Gun T1102 T1301 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor T1102: No Correction T1301: No Correction

Corrected Cooler Temp.: 2.4 °C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: CO 2/11/14

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [Signature]

Date: 2/11/14

SRF Review: [Signature]

Date: 2/12/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# 92189502

92189502

Chain of Custody Record

Client: **AECOM**
 Project / Site Location: **061576.08, Fmr HC / Spartanburg, SC**

Laboratory Certification Numbers: **SC - 24110, NC - 25, NELAP - E87633, TN - 2923, VA - 77**
 816 E. Durst Avenue, Greenwood, SC 29649 (864) 229-4413 Fax: (864) 229-7119
 Email: Laboratory@davisfloyd.com Internet: www.davisfloyd.com

Office Use Only
 Laboratory Work Request

Contact: **Mark Hartford**
 Report To: **787314-9431**
 Collected By: **Bryon Dahlgren**

Copy To: **Atmospheric Conditions**
 Reporting Requirements: [] Standard [] Daja Package (Specify Level: 1 2 3 4)
 Turnaround Requirements: [] Standard [] Rush (Specify: **3 Days**)
 Required Parameters: Containers and Preservatives (P)

PO / Quote Number: **0**
 State: **SC**

Mark Hartford
NOTICE:

Composite Sampling Only

Sample Description	Date Initiated	Time	Sample Collection		Composite Type	Matrix Type	Number of Containers	PARAMETERS		CONTAINERS		Comments	Fraction
			Date	Time				Chloroform	Other	3x40 G	TFE		
RW-129-405			2-18-14	1545	X		3	X				AD18450021	
RW-129-120			2-11-14	1012	X		3	X				003	
MW-0001			2-11-14	1300	X		2	X					

Refractured By	Date	Time	Refractured By	Date	Time	Refractured By	Date	Time	Refractured By	Date	Time	Shipped Via	D & F
[Signature]	2-11-14	1444	[Signature]	2-11-14	1625	[Signature]	2-11-14	1625	[Signature]	2-11-14	1625	UPS FEDEX CLIENT COURIER	OTHER
Received By	2-11-14	1444	Received in Laboratory By	2-11-14	1625								

Matrix Type Definitions: 1 - Drinking Water 2 - Clean Water 5 - Groundwater 7 - Soil/Sediment 8 - Liquid Sludge 9 - Oil 12 - Air
 (P) Preservative Definitions A - None B - H2SO4 C - HCl D - HNO3 E - NaOH F - Filtered G - Na2S2O3

Flow Measurement (Note 1)
 Beginning: _____ Ending: _____
 Start Date: _____ Multiplier: _____

Receipt Information
 Cooler ID (if available): _____
 On Ice: Yes No Temp(C): **7.1**
 Immediate Delivery: Yes / No Yes No
 Custody Seal: Intact / Broken / None Broken / None

(Note 1) For Discharge Measurements

Davis & Floyd, Inc.
 FLO2_03 (04/10)

February 18, 2014

Steve Simpson
CNA Holdings
1455 OLD ALABAMA RD.
Suite 170
Roswell, GA 30076

RE: Project: 061576.08 Fmr HC/Spartanburg
Pace Project No.: 92189813

Dear Steve Simpson:

Enclosed are the analytical results for sample(s) received by the laboratory on February 17, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Accounts Payable, CNA Holdings



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: 061576.08 Fmr HC/Spartanburg

Pace Project No.: 92189813

Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 061576.08 Fmr HC/Spartanburg

Pace Project No.: 92189813

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92189813001	RW-129-150	EPA 8260	CAH	4	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 061576.08 Fmr HC/Spartanburg

Pace Project No.: 92189813

Sample: RW-129-150		Lab ID: 92189813001	Collected: 02/14/14 16:37	Received: 02/17/14 13:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chloroform	1090	ug/L	50.0	10		02/18/14 14:18	67-66-3	
Surrogates								
4-Bromofluorobenzene (S)	99 %		70-130	1		02/18/14 12:40	460-00-4	
1,2-Dichloroethane-d4 (S)	102 %		70-130	1		02/18/14 12:40	17060-07-0	
Toluene-d8 (S)	101 %		70-130	1		02/18/14 12:40	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 061576.08 Fmr HC/Spartanburg

Pace Project No.: 92189813

QC Batch: MSV/25824

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV SC

Associated Lab Samples: 92189813001

METHOD BLANK: 1139281

Matrix: Water

Associated Lab Samples: 92189813001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	5.0	02/18/14 11:33	
1,2-Dichloroethane-d4 (S)	%	101	70-130	02/18/14 11:33	
4-Bromofluorobenzene (S)	%	98	70-130	02/18/14 11:33	
Toluene-d8 (S)	%	101	70-130	02/18/14 11:33	

LABORATORY CONTROL SAMPLE: 1139282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	20	17.6	88	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			103	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 061576.08 Fmr HC/Spartanburg
Pace Project No.: 92189813

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 061576.08 Fmr HC/Spartanburg

Pace Project No.: 92189813

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92189813001	RW-129-150	EPA 8260	MSV/25824		

REPORT OF LABORATORY ANALYSIS

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Document Name: **Sample Condition Upon Receipt (SCUR)**
 Document Number: **F-CHR-CS-03-rev.13**

Page 1 of 2
 Issuing Authority: **Pace Huntersville Quality Office**

Client Name: DAWS & Fling (AEcom)

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used: IR Gun T1102 T1301 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor **T1102: No Correction** **T1301: No Correction**

Corrected Cooler Temp.: 6.0 °C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Optional
 Proj. Due Date:
 Proj. Name:

Date and Initials of person examining contents: AD 2/17/14

	Yes	No	N/A	Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11.
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12.
-Includes date/time/ID/Analysis Matrix:				
All containers needing preservation have been checked.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15.
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	16.
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [Signature] Date: 2/17/14
 SRF Review: [Signature] Date: 2/17/14

WO# : 92189813

92189813

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

April 21, 2014

Bryon Dahlgren
AECOM
10 Patewood Drive, Bldg 6
Suite 500
Greenville, SC 29615

RE: Project: Celanese Spartanburg, SC
Pace Project No.: 92193829

Dear Bryon Dahlgren:

Enclosed are the analytical results for sample(s) received by the laboratory on March 19, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Aynsley Zollinger, AECOM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Celanese Spartanburg, SC

Pace Project No.: 92193829

Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Celanese Spartanburg, SC

Pace Project No.: 92193829

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92193829001	RW-115-90	EPA 624	MCK	4	PASI-C
92193829002	TRIP BLANK	EPA 624	MCK	4	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Celanese Spartanburg, SC

Pace Project No.: 92193829

Sample: RW-115-90		Lab ID: 92193829001	Collected: 03/18/14 13:05	Received: 03/19/14 13:58	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624						
Chloroform	2450	ug/L	100	50		03/26/14 13:40	67-66-3	
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-130	1		03/25/14 08:36	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		03/25/14 08:36	2037-26-5	
1,2-Dichloroethane-d4 (S)	378	%	70-130	1		03/25/14 08:36	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Celanese Spartanburg, SC

Pace Project No.: 92193829

Sample: TRIP BLANK		Lab ID: 92193829002	Collected: 03/18/14 17:25	Received: 03/19/14 13:58	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624						
Chloroform	ND	ug/L	2.0	1		03/25/14 05:21	67-66-3	
Surrogates								
4-Bromofluorobenzene (S)	90 %		70-130	1		03/25/14 05:21	460-00-4	
Toluene-d8 (S)	98 %		70-130	1		03/25/14 05:21	2037-26-5	
1,2-Dichloroethane-d4 (S)	368 %		70-130	1		03/25/14 05:21	17060-07-0	S3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Celanese Spartanburg, SC

Pace Project No.: 92193829

QC Batch: MSV/26200

Analysis Method: EPA 624

QC Batch Method: EPA 624

Analysis Description: 624 MSV

Associated Lab Samples: 92193829001, 92193829002

METHOD BLANK: 1163491

Matrix: Water

Associated Lab Samples: 92193829001, 92193829002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	2.0	03/25/14 03:27	
1,2-Dichloroethane-d4 (S)	%	100	70-130	03/25/14 03:27	
4-Bromofluorobenzene (S)	%	89	70-130	03/25/14 03:27	
Toluene-d8 (S)	%	97	70-130	03/25/14 03:27	

LABORATORY CONTROL SAMPLE: 1163492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	20	20.2	101	51-138	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1163493 1163494

Parameter	Units	92192752002		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Chloroform	ug/L	9.3	20	20	36.6	36.0	137	133	51-166	2				
1,2-Dichloroethane-d4 (S)	%						380	101	70-130		S0			
4-Bromofluorobenzene (S)	%						97	100	70-130					
Toluene-d8 (S)	%						99	99	70-130					

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Celanese Spartanburg, SC

Pace Project No.: 92193829

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

S0 Surrogate recovery outside laboratory control limits.

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Celanese Spartanburg, SC

Pace Project No.: 92193829

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92193829001	RW-115-90	EPA 624	MSV/26200		
92193829002	TRIP BLANK	EPA 624	MSV/26200		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: December 16, 2013
Page 1 of 2

Document Number:
F-CHR-CS-03-rev.13

Issuing Authority:
Pace Huntersville Quality Office

Client Name: Acorn

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used: IR Gun T1102 T1301 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor T1102: No Correction T1301: No Correction

Corrected Cooler Temp.: 3.9 °C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: <u>Conrad 3/15/14</u>

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>wt</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

*not our tb
no det on way*

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:

[Signature]

Date: 3/19/14

SRF Review:

[Signature]

Date: 3/20/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92193829

92193829



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: AECOM Address: 10 Patewood Dr, Bldg. VI, Suite 500 Greenville, SC 29615

Section B Required Project Information: Report To: Bryon Dahlgren Copy To: Purchase Order No.: Project Name: Piney Spratstburg, SC Project Number: 60280417

Section C Invoice Information: Attention: B. B. B. - Celanese Company Name: Address: Pace Quote Reference: Pace Project Manager: Pace Profile #: 60442-1

REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER UST RCRA OTHER

Site Location STATE: Requested Analysis Filtered (Y/N)

Temp in °C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)

ITEM #	Section D Required Client Information	Valid Matrix Codes	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME	DATE	TIME	H ₂ SO ₄	HNO ₃				
1	RW-115-90	DRINKING WATER DW WASTE WATER WW WASTE WATER PRODUCT P SOIL/SOLID SL WIFE WP AIR AR OTHER OT TISSUE TS	WT G		3-15-14	1305	16	3									001	
2	Tripp Blank				2-19-14	1725		2									002	
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS: [Blank]

RELINQUISHED BY / AFFILIATION: [Signature] DATE: 3-19-14 TIME: 12:20

ACCEPTED BY / AFFILIATION: [Signature] DATE: 3/19/14 TIME: 3:19/14

SAMPLER NAME AND SIGNATURE: [Signature] PRINT Name of SAMPLER: Mark Hartford DATE Signed (MM/DD/YY): 3-18-14

SIGNATURE of SAMPLER: [Signature]

April 15, 2014

Bryon Dahlgren
AECOM
10 Patewood Drive, Bldg 6
Suite 500
Greenville, SC 29615

RE: Project: AURIGA, SPARTANBURG SC
Pace Project No.: 92195574

Dear Bryon Dahlgren:

Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Aynsley Zollinger, AECOM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

Greenwood Certification IDs

816 Durst Avenue East, Greenwood, SC 29649
South Carolina DHEC Certification 24110001
North Carolina Division of Water Resources Certification
number 25

Florida Certification number E87633
Virginia VELAP ID: 460250
Asbestos NVLAP accreditation: 101410-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AURIGA, SPARTANBURG SC
Pace Project No.: 92195574

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92195574001	MW-138	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	CAH	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92195574002	RW-139	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	CAH	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92195574003	RW-136	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	CAH	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92195574004	RW-137	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	CAH	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92195574005	MW-130	EPA 9060A	CDC	1	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	CAH	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92195574006	MW-301	EPA 8260	CAH	53	PASI-C
92195574007	RES PUMP RW-131	EPA 8260	CAH	53	PASI-C
92195574008	MW-112	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	RES	72	PASI-C
		EPA 8260	CAH	53	PASI-C
		EPA 8260B Mod.	MCK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
92195574009	RW-113	SM 4500-CI-E	DMN	1	PASI-A
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	RES	72	PASI-C

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	CAH	53	PASI-C
		EPA 8260B Mod.	MCK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: MW-138	Lab ID: 92195574001	Collected: 03/31/14 11:45	Received: 04/01/14 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	1.3 mg/L		1.0	1		04/08/14 14:09	7440-44-0	
Total Organic Carbon	1.3 mg/L		1.0	1		04/08/14 14:09	7440-44-0	
Total Organic Carbon	1.4 mg/L		1.0	1		04/08/14 14:09	7440-44-0	
Total Organic Carbon	1.4 mg/L		1.0	1		04/08/14 14:09	7440-44-0	
Mean Total Organic Carbon	1.3 mg/L		1.0	1		04/08/14 14:09	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	6.7 ug/L		5.0	1	04/11/14 16:13	04/11/14 23:22	7439-96-5	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/03/14 18:18	67-64-1	
Benzene	ND ug/L		5.0	1		04/03/14 18:18	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/03/14 18:18	75-27-4	
Bromoform	ND ug/L		5.0	1		04/03/14 18:18	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/03/14 18:18	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/03/14 18:18	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/03/14 18:18	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/03/14 18:18	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/03/14 18:18	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/03/14 18:18	75-00-3	
Chloroform	148 ug/L		5.0	1		04/03/14 18:18	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/03/14 18:18	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/03/14 18:18	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/03/14 18:18	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/03/14 18:18	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/03/14 18:18	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/03/14 18:18	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/03/14 18:18	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/03/14 18:18	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/03/14 18:18	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/03/14 18:18	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/03/14 18:18	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/03/14 18:18	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		04/03/14 18:18	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/03/14 18:18	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/03/14 18:18	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/03/14 18:18	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/03/14 18:18	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/03/14 18:18	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/03/14 18:18	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/03/14 18:18	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/03/14 18:18	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/03/14 18:18	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/03/14 18:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/03/14 18:18	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/03/14 18:18	1634-04-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: MW-138	Lab ID: 92195574001	Collected: 03/31/14 11:45	Received: 04/01/14 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Styrene	ND ug/L		5.0	1		04/03/14 18:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		04/03/14 18:18	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		04/03/14 18:18	127-18-4	
Toluene	ND ug/L		5.0	1		04/03/14 18:18	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		04/03/14 18:18	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		04/03/14 18:18	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		04/03/14 18:18	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		04/03/14 18:18	79-00-5	
Trichloroethene	ND ug/L		5.0	1		04/03/14 18:18	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		04/03/14 18:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		04/03/14 18:18	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		04/03/14 18:18	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		04/03/14 18:18	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		04/03/14 18:18	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101 %		70-130	1		04/03/14 18:18	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		04/03/14 18:18	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		04/03/14 18:18	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	8.9 mg/L		5.0	1		04/08/14 16:15		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	2.6 mg/L		1.0	1		04/10/14 18:40	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: RW-139	Lab ID: 92195574002	Collected: 03/31/14 14:05	Received: 04/01/14 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	1.3 mg/L		1.0	1		04/08/14 14:37	7440-44-0	
Total Organic Carbon	1.3 mg/L		1.0	1		04/08/14 14:37	7440-44-0	
Total Organic Carbon	1.2 mg/L		1.0	1		04/08/14 14:37	7440-44-0	
Total Organic Carbon	1.3 mg/L		1.0	1		04/08/14 14:37	7440-44-0	
Mean Total Organic Carbon	1.3 mg/L		1.0	1		04/08/14 14:37	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	34.9 ug/L		5.0	1	04/11/14 16:13	04/11/14 23:25	7439-96-5	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/03/14 18:34	67-64-1	
Benzene	ND ug/L		5.0	1		04/03/14 18:34	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/03/14 18:34	75-27-4	
Bromoform	ND ug/L		5.0	1		04/03/14 18:34	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/03/14 18:34	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/03/14 18:34	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/03/14 18:34	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/03/14 18:34	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/03/14 18:34	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/03/14 18:34	75-00-3	
Chloroform	958 ug/L		50.0	10		04/04/14 14:05	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/03/14 18:34	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/03/14 18:34	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/03/14 18:34	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/03/14 18:34	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/03/14 18:34	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/03/14 18:34	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/03/14 18:34	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/03/14 18:34	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/03/14 18:34	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/03/14 18:34	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/03/14 18:34	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/03/14 18:34	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		04/03/14 18:34	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/03/14 18:34	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/03/14 18:34	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/03/14 18:34	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/03/14 18:34	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/03/14 18:34	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/03/14 18:34	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/03/14 18:34	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/03/14 18:34	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/03/14 18:34	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/03/14 18:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/03/14 18:34	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/03/14 18:34	1634-04-4	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: RW-139		Lab ID: 92195574002	Collected: 03/31/14 14:05	Received: 04/01/14 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Styrene	ND	ug/L	5.0	1		04/03/14 18:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/03/14 18:34	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/03/14 18:34	127-18-4	
Toluene	ND	ug/L	5.0	1		04/03/14 18:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/03/14 18:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/03/14 18:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/03/14 18:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/03/14 18:34	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/03/14 18:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/03/14 18:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/03/14 18:34	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		04/03/14 18:34	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/03/14 18:34	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/03/14 18:34	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101 %		70-130	1		04/03/14 18:34	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		70-130	1		04/03/14 18:34	17060-07-0	
Toluene-d8 (S)	101 %		70-130	1		04/03/14 18:34	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	57.9	mg/L	5.0	1		04/08/14 16:24		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	4.3	mg/L	1.0	1		04/10/14 18:40	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: RW-136	Lab ID: 92195574003	Collected: 03/31/14 15:45	Received: 04/01/14 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	1.1 mg/L		1.0	1		04/08/14 15:06	7440-44-0	
Total Organic Carbon	1.1 mg/L		1.0	1		04/08/14 15:06	7440-44-0	
Total Organic Carbon	1.1 mg/L		1.0	1		04/08/14 15:06	7440-44-0	
Total Organic Carbon	1.1 mg/L		1.0	1		04/08/14 15:06	7440-44-0	
Mean Total Organic Carbon	1.1 mg/L		1.0	1		04/08/14 15:06	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	132 ug/L		5.0	1	04/11/14 16:13	04/11/14 23:28	7439-96-5	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/03/14 18:50	67-64-1	
Benzene	ND ug/L		5.0	1		04/03/14 18:50	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/03/14 18:50	75-27-4	
Bromoform	ND ug/L		5.0	1		04/03/14 18:50	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/03/14 18:50	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/03/14 18:50	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/03/14 18:50	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/03/14 18:50	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/03/14 18:50	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/03/14 18:50	75-00-3	
Chloroform	ND ug/L		5.0	1		04/03/14 18:50	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/03/14 18:50	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/03/14 18:50	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/03/14 18:50	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/03/14 18:50	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/03/14 18:50	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/03/14 18:50	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/03/14 18:50	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/03/14 18:50	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/03/14 18:50	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/03/14 18:50	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/03/14 18:50	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/03/14 18:50	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		04/03/14 18:50	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/03/14 18:50	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/03/14 18:50	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/03/14 18:50	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/03/14 18:50	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/03/14 18:50	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/03/14 18:50	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/03/14 18:50	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/03/14 18:50	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/03/14 18:50	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/03/14 18:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/03/14 18:50	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/03/14 18:50	1634-04-4	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: RW-136		Lab ID: 92195574003	Collected: 03/31/14 15:45	Received: 04/01/14 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Styrene	ND	ug/L	5.0	1		04/03/14 18:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/03/14 18:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/03/14 18:50	127-18-4	
Toluene	ND	ug/L	5.0	1		04/03/14 18:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/03/14 18:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/03/14 18:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/03/14 18:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/03/14 18:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/03/14 18:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/03/14 18:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/03/14 18:50	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		04/03/14 18:50	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/03/14 18:50	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/03/14 18:50	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98 %		70-130	1		04/03/14 18:50	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		70-130	1		04/03/14 18:50	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		04/03/14 18:50	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	13.1	mg/L	5.0	1		04/08/14 16:34		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	13.9	mg/L	1.0	1		04/10/14 18:41	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: RW-137	Lab ID: 92195574004	Collected: 03/31/14 17:10	Received: 04/01/14 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	1.8 mg/L		1.0	1		04/08/14 15:34	7440-44-0	
Total Organic Carbon	1.8 mg/L		1.0	1		04/08/14 15:34	7440-44-0	
Total Organic Carbon	1.8 mg/L		1.0	1		04/08/14 15:34	7440-44-0	
Total Organic Carbon	1.9 mg/L		1.0	1		04/08/14 15:34	7440-44-0	
Mean Total Organic Carbon	1.8 mg/L		1.0	1		04/08/14 15:34	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	54.9 ug/L		5.0	1	04/11/14 16:13	04/11/14 23:41	7439-96-5	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/03/14 19:05	67-64-1	
Benzene	ND ug/L		5.0	1		04/03/14 19:05	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/03/14 19:05	75-27-4	
Bromoform	ND ug/L		5.0	1		04/03/14 19:05	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/03/14 19:05	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/03/14 19:05	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/03/14 19:05	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/03/14 19:05	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/03/14 19:05	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/03/14 19:05	75-00-3	
Chloroform	243 ug/L		10.0	2		04/04/14 14:21	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/03/14 19:05	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/03/14 19:05	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/03/14 19:05	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/03/14 19:05	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/03/14 19:05	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/03/14 19:05	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/03/14 19:05	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/03/14 19:05	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/03/14 19:05	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/03/14 19:05	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/03/14 19:05	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/03/14 19:05	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		04/03/14 19:05	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/03/14 19:05	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/03/14 19:05	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/03/14 19:05	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/03/14 19:05	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/03/14 19:05	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/03/14 19:05	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/03/14 19:05	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/03/14 19:05	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/03/14 19:05	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/03/14 19:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/03/14 19:05	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/03/14 19:05	1634-04-4	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: RW-137		Lab ID: 92195574004	Collected: 03/31/14 17:10	Received: 04/01/14 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Styrene	ND	ug/L	5.0	1		04/03/14 19:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/03/14 19:05	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/03/14 19:05	127-18-4	
Toluene	ND	ug/L	5.0	1		04/03/14 19:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/03/14 19:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/03/14 19:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/03/14 19:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/03/14 19:05	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/03/14 19:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/03/14 19:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/03/14 19:05	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		04/03/14 19:05	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/03/14 19:05	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/03/14 19:05	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101 %		70-130	1		04/03/14 19:05	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		70-130	1		04/03/14 19:05	17060-07-0	
Toluene-d8 (S)	98 %		70-130	1		04/03/14 19:05	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	69.6	mg/L	5.0	1		04/08/14 16:44		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	6.3	mg/L	1.0	1		04/10/14 18:42	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: MW-130	Lab ID: 92195574005	Collected: 04/01/14 12:00	Received: 04/01/14 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Mean Total Organic Carbon	ND mg/L		1.0	1		04/08/14 16:02	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	67.5 ug/L		5.0	1	04/11/14 16:13	04/11/14 23:44	7439-96-5	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/04/14 16:18	67-64-1	
Benzene	ND ug/L		5.0	1		04/04/14 16:18	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/04/14 16:18	75-27-4	
Bromoform	ND ug/L		5.0	1		04/04/14 16:18	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/04/14 16:18	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/04/14 16:18	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/04/14 16:18	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/04/14 16:18	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/04/14 16:18	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/04/14 16:18	75-00-3	
Chloroform	39.8 ug/L		5.0	1		04/04/14 16:18	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/04/14 16:18	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/04/14 16:18	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/04/14 16:18	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/04/14 16:18	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/04/14 16:18	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/04/14 16:18	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/04/14 16:18	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/04/14 16:18	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/04/14 16:18	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/04/14 16:18	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/04/14 16:18	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/04/14 16:18	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		04/04/14 16:18	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/04/14 16:18	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/04/14 16:18	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/04/14 16:18	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/04/14 16:18	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/04/14 16:18	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/04/14 16:18	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/04/14 16:18	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/04/14 16:18	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/04/14 16:18	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/04/14 16:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/04/14 16:18	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/04/14 16:18	1634-04-4	
Styrene	ND ug/L		5.0	1		04/04/14 16:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		04/04/14 16:18	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		04/04/14 16:18	127-18-4	
Toluene	ND ug/L		5.0	1		04/04/14 16:18	108-88-3	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: MW-130	Lab ID: 92195574005	Collected: 04/01/14 12:00	Received: 04/01/14 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		04/04/14 16:18	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		04/04/14 16:18	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		04/04/14 16:18	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		04/04/14 16:18	79-00-5	
Trichloroethene	ND ug/L		5.0	1		04/04/14 16:18	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		04/04/14 16:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		04/04/14 16:18	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		04/04/14 16:18	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		04/04/14 16:18	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		04/04/14 16:18	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100 %		70-130	1		04/04/14 16:18	460-00-4	
1,2-Dichloroethane-d4 (S)	102 %		70-130	1		04/04/14 16:18	17060-07-0	
Toluene-d8 (S)	102 %		70-130	1		04/04/14 16:18	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	8.7 mg/L		5.0	1		04/08/14 11:06		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	1.2 mg/L		1.0	1		04/10/14 18:42	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: MW-301		Lab ID: 92195574006	Collected: 03/31/14 18:00	Received: 04/01/14 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		04/03/14 19:21	67-64-1	
Benzene	ND	ug/L	5.0	1		04/03/14 19:21	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/03/14 19:21	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/03/14 19:21	75-25-2	
Bromomethane	ND	ug/L	10.0	1		04/03/14 19:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/03/14 19:21	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/03/14 19:21	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/03/14 19:21	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/03/14 19:21	108-90-7	
Chloroethane	ND	ug/L	10.0	1		04/03/14 19:21	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/03/14 19:21	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/03/14 19:21	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		04/03/14 19:21	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		04/03/14 19:21	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/03/14 19:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/03/14 19:21	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/03/14 19:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/03/14 19:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/03/14 19:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/03/14 19:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/03/14 19:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/03/14 19:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/03/14 19:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/03/14 19:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/03/14 19:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/03/14 19:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/03/14 19:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/03/14 19:21	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/03/14 19:21	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/03/14 19:21	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/03/14 19:21	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		04/03/14 19:21	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		04/03/14 19:21	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		04/03/14 19:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/03/14 19:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		04/03/14 19:21	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/03/14 19:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/03/14 19:21	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/03/14 19:21	127-18-4	
Toluene	ND	ug/L	5.0	1		04/03/14 19:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/03/14 19:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/03/14 19:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/03/14 19:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/03/14 19:21	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/03/14 19:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/03/14 19:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/03/14 19:21	76-13-1	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: MW-301		Lab ID: 92195574006	Collected: 03/31/14 18:00	Received: 04/01/14 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND ug/L		10.0	1		04/03/14 19:21	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		04/03/14 19:21	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		04/03/14 19:21	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102 %		70-130	1		04/03/14 19:21	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		04/03/14 19:21	17060-07-0	
Toluene-d8 (S)	101 %		70-130	1		04/03/14 19:21	2037-26-5	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: RES PUMP RW-131	Lab ID: 92195574007	Collected: 04/01/14 10:20	Received: 04/01/14 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	66.8	ug/L	25.0	1		04/04/14 16:34	67-64-1	
Benzene	ND	ug/L	5.0	1		04/04/14 16:34	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/04/14 16:34	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/04/14 16:34	75-25-2	
Bromomethane	ND	ug/L	10.0	1		04/04/14 16:34	74-83-9	
2-Butanone (MEK)	30.1	ug/L	10.0	1		04/04/14 16:34	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/04/14 16:34	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/04/14 16:34	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/04/14 16:34	108-90-7	
Chloroethane	ND	ug/L	10.0	1		04/04/14 16:34	75-00-3	
Chloroform	329	ug/L	20.0	4		04/07/14 15:45	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/04/14 16:34	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		04/04/14 16:34	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		04/04/14 16:34	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/04/14 16:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/04/14 16:34	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 16:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 16:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 16:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/04/14 16:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/04/14 16:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/04/14 16:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/04/14 16:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/04/14 16:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/04/14 16:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/04/14 16:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/04/14 16:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/04/14 16:34	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/04/14 16:34	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/04/14 16:34	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/04/14 16:34	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		04/04/14 16:34	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		04/04/14 16:34	108-87-2	
Methylene Chloride	7.9	ug/L	5.0	1		04/04/14 16:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/04/14 16:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		04/04/14 16:34	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/04/14 16:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/04/14 16:34	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/04/14 16:34	127-18-4	
Toluene	ND	ug/L	5.0	1		04/04/14 16:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/04/14 16:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/04/14 16:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/04/14 16:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/04/14 16:34	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/04/14 16:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/04/14 16:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/04/14 16:34	76-13-1	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: RES PUMP RW-131		Lab ID: 92195574007	Collected: 04/01/14 10:20	Received: 04/01/14 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND ug/L		10.0	1		04/04/14 16:34	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		04/04/14 16:34	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		04/04/14 16:34	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100 %		70-130	1		04/04/14 16:34	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		04/04/14 16:34	17060-07-0	
Toluene-d8 (S)	102 %		70-130	1		04/04/14 16:34	2037-26-5	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: MW-112	Lab ID: 92195574008	Collected: 04/01/14 10:55	Received: 04/01/14 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	1.9 mg/L		1.0	1		04/08/14 17:33	7440-44-0	
Total Organic Carbon	1.5 mg/L		1.0	1		04/08/14 17:33	7440-44-0	
Total Organic Carbon	1.5 mg/L		1.0	1		04/08/14 17:33	7440-44-0	
Total Organic Carbon	1.4 mg/L		1.0	1		04/08/14 17:33	7440-44-0	
Mean Total Organic Carbon	1.6 mg/L		1.0	1		04/08/14 17:33	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	ND ug/L		5.0	1	04/11/14 16:13	04/11/14 23:53	7439-96-5	
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	83-32-9	
Acenaphthylene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	208-96-8	
Anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	120-12-7	
Atrazine	ND ug/L		20.0	1	04/04/14 16:00	04/07/14 11:54	1912-24-9	
Benzaldehyde	ND ug/L		20.0	1	04/04/14 16:00	04/07/14 11:54	100-52-7	
Benzo(a)anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	56-55-3	
Benzo(a)pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	50-32-8	
Benzo(b)fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	191-24-2	
Benzo(k)fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	207-08-9	
Biphenyl (Diphenyl)	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	92-52-4	
4-Bromophenylphenyl ether	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	101-55-3	
Butylbenzylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	85-68-7	
Caprolactam	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	105-60-2	
Carbazole	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	86-74-8	
4-Chloro-3-methylphenol	ND ug/L		20.0	1	04/04/14 16:00	04/07/14 11:54	59-50-7	
4-Chloroaniline	ND ug/L		20.0	1	04/04/14 16:00	04/07/14 11:54	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	108-60-1	
2-Chloronaphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	91-58-7	
2-Chlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	7005-72-3	
Chrysene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	53-70-3	
Dibenzofuran	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	132-64-9	
3,3'-Dichlorobenzidine	ND ug/L		20.0	1	04/04/14 16:00	04/07/14 11:54	91-94-1	
2,4-Dichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	120-83-2	
Diethylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	84-66-2	
2,4-Dimethylphenol	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	105-67-9	
Dimethylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	131-11-3	
Di-n-butylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		20.0	1	04/04/14 16:00	04/07/14 11:54	534-52-1	
2,4-Dinitrophenol	ND ug/L		50.0	1	04/04/14 16:00	04/07/14 11:54	51-28-5	
2,4-Dinitrotoluene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	121-14-2	
2,6-Dinitrotoluene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	606-20-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: MW-112	Lab ID: 92195574008	Collected: 04/01/14 10:55	Received: 04/01/14 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Di-n-octylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	117-84-0	
Diphenyl ether (Phenyl ether)	ND ug/L		20.0	1	04/04/14 16:00	04/07/14 11:54	101-84-8	
bis(2-Ethylhexyl)phthalate	ND ug/L		6.0	1	04/04/14 16:00	04/07/14 11:54	117-81-7	
Fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	206-44-0	
Fluorene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	87-68-3	
Hexachlorobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	77-47-4	
Hexachloroethane	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	193-39-5	
Isophorone	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	78-59-1	
2-Methylnaphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54		
Naphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	91-20-3	
2-Nitroaniline	ND ug/L		50.0	1	04/04/14 16:00	04/07/14 11:54	88-74-4	
3-Nitroaniline	ND ug/L		50.0	1	04/04/14 16:00	04/07/14 11:54	99-09-2	
4-Nitroaniline	ND ug/L		20.0	1	04/04/14 16:00	04/07/14 11:54	100-01-6	
Nitrobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	98-95-3	
2-Nitrophenol	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	88-75-5	
4-Nitrophenol	ND ug/L		50.0	1	04/04/14 16:00	04/07/14 11:54	100-02-7	
N-Nitroso-di-n-propylamine	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	86-30-6	
Pentachlorophenol	ND ug/L		25.0	1	04/04/14 16:00	04/07/14 11:54	87-86-5	
Phenanthrene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	85-01-8	
Phenol	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	108-95-2	
Pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	95-94-3	
2,4,5-Trichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 11:54	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	31 %		21-110	1	04/04/14 16:00	04/07/14 11:54	4165-60-0	
2-Fluorobiphenyl (S)	28 %		27-110	1	04/04/14 16:00	04/07/14 11:54	321-60-8	
Terphenyl-d14 (S)	76 %		31-107	1	04/04/14 16:00	04/07/14 11:54	1718-51-0	
Phenol-d6 (S)	12 %		10-110	1	04/04/14 16:00	04/07/14 11:54	13127-88-3	
2-Fluorophenol (S)	17 %		12-110	1	04/04/14 16:00	04/07/14 11:54	367-12-4	
2,4,6-Tribromophenol (S)	28 %		27-110	1	04/04/14 16:00	04/07/14 11:54	118-79-6	
8260 MSV								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1	04/04/14 16:49		67-64-1	
Benzene	ND ug/L		5.0	1	04/04/14 16:49		71-43-2	
Bromodichloromethane	ND ug/L		5.0	1	04/04/14 16:49		75-27-4	
Bromoform	ND ug/L		5.0	1	04/04/14 16:49		75-25-2	
Bromomethane	ND ug/L		10.0	1	04/04/14 16:49		74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1	04/04/14 16:49		78-93-3	
Carbon disulfide	ND ug/L		10.0	1	04/04/14 16:49		75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1	04/04/14 16:49		56-23-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: MW-112		Lab ID: 92195574008	Collected: 04/01/14 10:55	Received: 04/01/14 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Chlorobenzene	ND	ug/L	5.0	1		04/04/14 16:49	108-90-7	
Chloroethane	ND	ug/L	10.0	1		04/04/14 16:49	75-00-3	
Chloroform	2000	ug/L	100	20		04/07/14 16:01	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/04/14 16:49	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		04/04/14 16:49	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		04/04/14 16:49	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/04/14 16:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/04/14 16:49	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 16:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 16:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 16:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/04/14 16:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/04/14 16:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/04/14 16:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/04/14 16:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/04/14 16:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/04/14 16:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/04/14 16:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/04/14 16:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/04/14 16:49	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/04/14 16:49	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/04/14 16:49	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/04/14 16:49	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		04/04/14 16:49	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		04/04/14 16:49	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		04/04/14 16:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/04/14 16:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		04/04/14 16:49	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/04/14 16:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/04/14 16:49	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/04/14 16:49	127-18-4	
Toluene	ND	ug/L	5.0	1		04/04/14 16:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/04/14 16:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/04/14 16:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/04/14 16:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/04/14 16:49	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/04/14 16:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/04/14 16:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/04/14 16:49	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		04/04/14 16:49	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/04/14 16:49	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/04/14 16:49	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101 %		70-130	1		04/04/14 16:49	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		04/04/14 16:49	17060-07-0	
Toluene-d8 (S)	101 %		70-130	1		04/04/14 16:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: MW-112		Lab ID: 92195574008	Collected: 04/01/14 10:55	Received: 04/01/14 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		04/08/14 15:47	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	115 %		50-150	1		04/08/14 15:47	17060-07-0	
Toluene-d8 (S)	95 %		50-150	1		04/08/14 15:47	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	21.5	mg/L	5.0	1		04/08/14 11:36		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	2.5	mg/L	1.0	1		04/10/14 18:46	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: RW-113	Lab ID: 92195574009	Collected: 04/01/14 12:15	Received: 04/01/14 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	1.3 mg/L		1.0	1		04/08/14 18:02	7440-44-0	
Total Organic Carbon	1.3 mg/L		1.0	1		04/08/14 18:02	7440-44-0	
Total Organic Carbon	1.3 mg/L		1.0	1		04/08/14 18:02	7440-44-0	
Total Organic Carbon	1.3 mg/L		1.0	1		04/08/14 18:02	7440-44-0	
Mean Total Organic Carbon	1.3 mg/L		1.0	1		04/08/14 18:02	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	48.0 ug/L		5.0	1	04/11/14 16:13	04/11/14 23:56	7439-96-5	
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	83-32-9	
Acenaphthylene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	208-96-8	
Anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	120-12-7	
Atrazine	ND ug/L		20.0	1	04/04/14 16:00	04/07/14 12:32	1912-24-9	
Benzaldehyde	ND ug/L		20.0	1	04/04/14 16:00	04/07/14 12:32	100-52-7	
Benzo(a)anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	56-55-3	
Benzo(a)pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	50-32-8	
Benzo(b)fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	191-24-2	
Benzo(k)fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	207-08-9	
Biphenyl (Diphenyl)	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	92-52-4	
4-Bromophenylphenyl ether	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	101-55-3	
Butylbenzylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	85-68-7	
Caprolactam	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	105-60-2	
Carbazole	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	86-74-8	
4-Chloro-3-methylphenol	ND ug/L		20.0	1	04/04/14 16:00	04/07/14 12:32	59-50-7	
4-Chloroaniline	ND ug/L		20.0	1	04/04/14 16:00	04/07/14 12:32	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	108-60-1	
2-Chloronaphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	91-58-7	
2-Chlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	7005-72-3	
Chrysene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	53-70-3	
Dibenzofuran	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	132-64-9	
3,3'-Dichlorobenzidine	ND ug/L		20.0	1	04/04/14 16:00	04/07/14 12:32	91-94-1	
2,4-Dichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	120-83-2	
Diethylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	84-66-2	
2,4-Dimethylphenol	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	105-67-9	
Dimethylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	131-11-3	
Di-n-butylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		20.0	1	04/04/14 16:00	04/07/14 12:32	534-52-1	
2,4-Dinitrophenol	ND ug/L		50.0	1	04/04/14 16:00	04/07/14 12:32	51-28-5	
2,4-Dinitrotoluene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	121-14-2	
2,6-Dinitrotoluene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	606-20-2	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: RW-113	Lab ID: 92195574009	Collected: 04/01/14 12:15	Received: 04/01/14 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Di-n-octylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	117-84-0	
Diphenyl ether (Phenyl ether)	ND ug/L		20.0	1	04/04/14 16:00	04/07/14 12:32	101-84-8	
bis(2-Ethylhexyl)phthalate	ND ug/L		6.0	1	04/04/14 16:00	04/07/14 12:32	117-81-7	
Fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	206-44-0	
Fluorene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	87-68-3	
Hexachlorobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	77-47-4	
Hexachloroethane	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	193-39-5	
Isophorone	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	78-59-1	
2-Methylnaphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32		
Naphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	91-20-3	
2-Nitroaniline	ND ug/L		50.0	1	04/04/14 16:00	04/07/14 12:32	88-74-4	
3-Nitroaniline	ND ug/L		50.0	1	04/04/14 16:00	04/07/14 12:32	99-09-2	
4-Nitroaniline	ND ug/L		20.0	1	04/04/14 16:00	04/07/14 12:32	100-01-6	
Nitrobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	98-95-3	
2-Nitrophenol	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	88-75-5	
4-Nitrophenol	ND ug/L		50.0	1	04/04/14 16:00	04/07/14 12:32	100-02-7	
N-Nitroso-di-n-propylamine	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	86-30-6	
Pentachlorophenol	ND ug/L		25.0	1	04/04/14 16:00	04/07/14 12:32	87-86-5	
Phenanthrene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	85-01-8	
Phenol	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	108-95-2	
Pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	95-94-3	
2,4,5-Trichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/07/14 12:32	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	64 %		21-110	1	04/04/14 16:00	04/07/14 12:32	4165-60-0	
2-Fluorobiphenyl (S)	67 %		27-110	1	04/04/14 16:00	04/07/14 12:32	321-60-8	
Terphenyl-d14 (S)	84 %		31-107	1	04/04/14 16:00	04/07/14 12:32	1718-51-0	
Phenol-d6 (S)	23 %		10-110	1	04/04/14 16:00	04/07/14 12:32	13127-88-3	
2-Fluorophenol (S)	31 %		12-110	1	04/04/14 16:00	04/07/14 12:32	367-12-4	
2,4,6-Tribromophenol (S)	65 %		27-110	1	04/04/14 16:00	04/07/14 12:32	118-79-6	
8260 MSV								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		04/04/14 17:05	67-64-1	
Benzene	ND ug/L		5.0	1		04/04/14 17:05	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/04/14 17:05	75-27-4	
Bromoform	ND ug/L		5.0	1		04/04/14 17:05	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/04/14 17:05	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/04/14 17:05	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/04/14 17:05	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/04/14 17:05	56-23-5	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: RW-113		Lab ID: 92195574009	Collected: 04/01/14 12:15	Received: 04/01/14 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Chlorobenzene	ND	ug/L	5.0	1		04/04/14 17:05	108-90-7	
Chloroethane	ND	ug/L	10.0	1		04/04/14 17:05	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/04/14 17:05	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/04/14 17:05	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		04/04/14 17:05	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		04/04/14 17:05	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/04/14 17:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/04/14 17:05	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/04/14 17:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/04/14 17:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/04/14 17:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/04/14 17:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/04/14 17:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/04/14 17:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/04/14 17:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/04/14 17:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/04/14 17:05	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/04/14 17:05	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/04/14 17:05	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/04/14 17:05	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		04/04/14 17:05	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		04/04/14 17:05	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		04/04/14 17:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/04/14 17:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		04/04/14 17:05	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/04/14 17:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/04/14 17:05	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/04/14 17:05	127-18-4	
Toluene	ND	ug/L	5.0	1		04/04/14 17:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/04/14 17:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/04/14 17:05	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/04/14 17:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/04/14 17:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/04/14 17:05	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		04/04/14 17:05	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/04/14 17:05	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/04/14 17:05	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99 %		70-130	1		04/04/14 17:05	460-00-4	
1,2-Dichloroethane-d4 (S)	102 %		70-130	1		04/04/14 17:05	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		04/04/14 17:05	2037-26-5	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Sample: RW-113		Lab ID: 92195574009	Collected: 04/01/14 12:15	Received: 04/01/14 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		04/08/14 16:07	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	109 %		50-150	1		04/08/14 16:07	17060-07-0	
Toluene-d8 (S)	96 %		50-150	1		04/08/14 16:07	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	64.8	mg/L	5.0	1		04/08/14 11:45		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	1.9	mg/L	1.0	1		04/10/14 18:47	16887-00-6	

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC
Pace Project No.: 92195574

QC Batch: GWD/1157 Analysis Method: EPA 9060A
QC Batch Method: EPA 9060A Analysis Description: 9060 TOC, GWD
Associated Lab Samples: 92195574001, 92195574002, 92195574003, 92195574004, 92195574005, 92195574008, 92195574009

METHOD BLANK: 1173364 Matrix: Water
Associated Lab Samples: 92195574001, 92195574002, 92195574003, 92195574004, 92195574005, 92195574008, 92195574009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	ND	1.0	04/08/14 13:41	
Total Organic Carbon	mg/L	ND	1.0	04/08/14 13:41	
Total Organic Carbon	mg/L	ND	1.0	04/08/14 13:41	
Total Organic Carbon	mg/L	ND	1.0	04/08/14 13:41	
Total Organic Carbon	mg/L	ND	1.0	04/08/14 13:41	

LABORATORY CONTROL SAMPLE: 1173365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	50	48.0	96	75-125	
Total Organic Carbon	mg/L	50	48.2	96	75-125	
Total Organic Carbon	mg/L	50	47.7	95	75-125	
Total Organic Carbon	mg/L	50	47.8	96	75-125	
Total Organic Carbon	mg/L	50	48.4	97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1173482 1173483

Parameter	Units	92195574005 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result					
Mean Total Organic Carbon	mg/L	ND	50	50	49.5	49.8	97	98	75-125	1	
Total Organic Carbon	mg/L				48.9	49.7				2	
Total Organic Carbon	mg/L				49.2	49.9				1	
Total Organic Carbon	mg/L				50.0	49.9				0	
Total Organic Carbon	mg/L				49.7	49.7				0	

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC
Pace Project No.: 92195574

QC Batch: MPRP/15659 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Filtered
Associated Lab Samples: 92195574001, 92195574002, 92195574003, 92195574004, 92195574005, 92195574008, 92195574009

METHOD BLANK: 1176527 Matrix: Water
Associated Lab Samples: 92195574001, 92195574002, 92195574003, 92195574004, 92195574005, 92195574008, 92195574009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	5.0	04/11/14 23:16	

LABORATORY CONTROL SAMPLE: 1176528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	500	452	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1176529 1176530

Parameter	Units	92195574005 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.							
Manganese, Dissolved	ug/L	67.5	500	500	483	475	83	82	75-125	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1176531 1176532

Parameter	Units	92196006001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.							
Manganese, Dissolved	ug/L	36.1	500	500	448	449	82	83	75-125	0	

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

QC Batch: MSV/26302 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
 Associated Lab Samples: 92195574001, 92195574002, 92195574003, 92195574004, 92195574006

METHOD BLANK: 1170919 Matrix: Water
 Associated Lab Samples: 92195574001, 92195574002, 92195574003, 92195574004, 92195574006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/03/14 13:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/03/14 13:34	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/03/14 13:34	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	04/03/14 13:34	
1,1-Dichloroethane	ug/L	ND	5.0	04/03/14 13:34	
1,1-Dichloroethene	ug/L	ND	5.0	04/03/14 13:34	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	04/03/14 13:34	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/03/14 13:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	04/03/14 13:34	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	04/03/14 13:34	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/03/14 13:34	
1,2-Dichloroethane	ug/L	ND	5.0	04/03/14 13:34	
1,2-Dichloropropane	ug/L	ND	5.0	04/03/14 13:34	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/03/14 13:34	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/03/14 13:34	
2-Butanone (MEK)	ug/L	ND	10.0	04/03/14 13:34	
2-Hexanone	ug/L	ND	10.0	04/03/14 13:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/03/14 13:34	
Acetone	ug/L	ND	25.0	04/03/14 13:34	
Benzene	ug/L	ND	5.0	04/03/14 13:34	
Bromodichloromethane	ug/L	ND	5.0	04/03/14 13:34	
Bromoform	ug/L	ND	5.0	04/03/14 13:34	
Bromomethane	ug/L	ND	10.0	04/03/14 13:34	
Carbon disulfide	ug/L	ND	10.0	04/03/14 13:34	
Carbon tetrachloride	ug/L	ND	5.0	04/03/14 13:34	
Chlorobenzene	ug/L	ND	5.0	04/03/14 13:34	
Chloroethane	ug/L	ND	10.0	04/03/14 13:34	
Chloroform	ug/L	ND	5.0	04/03/14 13:34	
Chloromethane	ug/L	ND	5.0	04/03/14 13:34	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/03/14 13:34	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/03/14 13:34	
Cyclohexane	ug/L	ND	5.0	04/03/14 13:34	
Dibromochloromethane	ug/L	ND	5.0	04/03/14 13:34	
Dichlorodifluoromethane	ug/L	ND	5.0	04/03/14 13:34	
Ethylbenzene	ug/L	ND	5.0	04/03/14 13:34	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	04/03/14 13:34	
Methyl acetate	ug/L	ND	10.0	04/03/14 13:34	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/03/14 13:34	
Methylcyclohexane	ug/L	ND	10.0	04/03/14 13:34	
Methylene Chloride	ug/L	ND	5.0	04/03/14 13:34	
Styrene	ug/L	ND	5.0	04/03/14 13:34	
Tetrachloroethene	ug/L	ND	5.0	04/03/14 13:34	
Toluene	ug/L	ND	5.0	04/03/14 13:34	

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

METHOD BLANK: 1170919

Matrix: Water

Associated Lab Samples: 92195574001, 92195574002, 92195574003, 92195574004, 92195574006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/03/14 13:34	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/03/14 13:34	
Trichloroethene	ug/L	ND	5.0	04/03/14 13:34	
Trichlorofluoromethane	ug/L	ND	10.0	04/03/14 13:34	
Vinyl acetate	ug/L	ND	10.0	04/03/14 13:34	
Vinyl chloride	ug/L	ND	5.0	04/03/14 13:34	
Xylene (Total)	ug/L	ND	10.0	04/03/14 13:34	
1,2-Dichloroethane-d4 (S)	%	101	70-130	04/03/14 13:34	
4-Bromofluorobenzene (S)	%	100	70-130	04/03/14 13:34	
Toluene-d8 (S)	%	101	70-130	04/03/14 13:34	

LABORATORY CONTROL SAMPLE: 1170920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.6	105	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.2	102	70-130	
1,1,2-Trichloroethane	ug/L	50	50.9	102	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	59.4	119	70-130	
1,1-Dichloroethane	ug/L	50	48.6	97	70-130	
1,1-Dichloroethene	ug/L	50	47.3	95	70-130	
1,2,3-Trichlorobenzene	ug/L	50	57.6	115	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.7	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	52.5	105	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.5	107	70-130	
1,2-Dichlorobenzene	ug/L	50	50.4	101	70-130	
1,2-Dichloroethane	ug/L	50	50.0	100	70-130	
1,2-Dichloropropane	ug/L	50	49.8	100	70-130	
1,3-Dichlorobenzene	ug/L	50	49.7	99	70-130	
1,4-Dichlorobenzene	ug/L	50	49.8	100	70-130	
2-Butanone (MEK)	ug/L	100	96.0	96	70-130	
2-Hexanone	ug/L	100	102	102	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	101	101	70-130	
Acetone	ug/L	100	93.7	94	70-130	
Benzene	ug/L	50	51.4	103	70-130	
Bromodichloromethane	ug/L	50	49.8	100	70-130	
Bromoform	ug/L	50	53.3	107	70-130	
Bromomethane	ug/L	50	46.2	92	70-130	
Carbon disulfide	ug/L	50	47.7	95	70-130	
Carbon tetrachloride	ug/L	50	51.9	104	70-130	
Chlorobenzene	ug/L	50	50.6	101	70-130	
Chloroethane	ug/L	50	41.0	82	70-130	
Chloroform	ug/L	50	46.9	94	70-130	
Chloromethane	ug/L	50	36.3	73	70-130	
cis-1,2-Dichloroethene	ug/L	50	47.7	95	70-130	
cis-1,3-Dichloropropene	ug/L	50	50.0	100	70-130	

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

LABORATORY CONTROL SAMPLE: 1170920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyclohexane	ug/L	50	54.6	109	70-130	
Dibromochloromethane	ug/L	50	53.2	106	70-130	
Dichlorodifluoromethane	ug/L	50	52.6	105	70-130	
Ethylbenzene	ug/L	50	50.8	102	70-130	
Isopropylbenzene (Cumene)	ug/L	50	53.1	106	70-130	
Methyl acetate	ug/L	50	39.5	79	70-130	
Methyl-tert-butyl ether	ug/L	50	52.4	105	70-130	
Methylcyclohexane	ug/L	50	59.0	118	70-130	
Methylene Chloride	ug/L	50	49.2	98	70-130	
Styrene	ug/L	50	52.4	105	70-130	
Tetrachloroethene	ug/L	50	54.8	110	70-130	
Toluene	ug/L	50	50.3	101	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.6	95	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.3	107	70-130	
Trichloroethene	ug/L	50	49.7	99	70-130	
Trichlorofluoromethane	ug/L	50	53.0	106	70-130	
Vinyl acetate	ug/L	100	109	109	70-130	
Vinyl chloride	ug/L	50	48.2	96	70-130	
Xylene (Total)	ug/L	150	155	103	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1171585 1171586

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92195343005 Result	Spike Conc.	Spike Conc.	MS Result					
1,1,1-Trichloroethane	ug/L	ND	50	50	66.8	55.6	134	111	70-130	18 M0
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	57.2	46.9	114	94	70-130	20
1,1,2-Trichloroethane	ug/L	ND	50	50	63.7	49.2	127	98	70-130	26
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	74.5	62.0	149	124	70-130	18 M0
1,1-Dichloroethane	ug/L	ND	50	50	62.3	49.8	125	100	70-130	22
1,1-Dichloroethene	ug/L	ND	50	50	61.0	49.3	122	99	70-130	21
1,2,3-Trichlorobenzene	ug/L	ND	50	50	64.3	55.2	129	110	70-130	15
1,2,4-Trichlorobenzene	ug/L	ND	50	50	60.7	50.6	121	101	70-130	18
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	56.6	48.2	113	96	70-130	16
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	62.3	48.6	125	97	70-130	25
1,2-Dichlorobenzene	ug/L	ND	50	50	61.0	49.0	122	98	70-130	22
1,2-Dichloroethane	ug/L	ND	50	50	61.4	50.4	123	101	70-130	20
1,2-Dichloropropane	ug/L	ND	50	50	63.0	49.4	126	99	70-130	24
1,3-Dichlorobenzene	ug/L	ND	50	50	59.1	48.0	118	96	70-130	21
1,4-Dichlorobenzene	ug/L	ND	50	50	59.8	50.0	120	100	70-130	18
2-Butanone (MEK)	ug/L	ND	100	100	103	89.8	103	90	70-130	14
2-Hexanone	ug/L	ND	100	100	110	91.8	110	92	70-130	18
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	112	90.3	112	90	70-130	21
Acetone	ug/L	ND	100	100	98.8	85.5	99	85	70-130	14
Benzene	ug/L	ND	50	50	66.6	51.6	133	103	70-130	26 M0

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Parameter	92195343005		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
Bromodichloromethane	ug/L	ND	50	50	63.6	49.9	127	100	70-130	24				
Bromoform	ug/L	ND	50	50	61.5	49.7	123	99	70-130	21				
Bromomethane	ug/L	ND	50	50	72.7	55.1	145	110	70-130	27	M0			
Carbon disulfide	ug/L	ND	50	50	61.8	49.9	124	100	70-130	21				
Carbon tetrachloride	ug/L	ND	50	50	69.4	54.2	139	108	70-130	25	M0			
Chlorobenzene	ug/L	ND	50	50	61.9	49.4	124	99	70-130	23				
Chloroethane	ug/L	ND	50	50	56.7	44.9	113	90	70-130	23				
Chloroform	ug/L	7.0	50	50	69.2	57.6	124	101	70-130	18				
Chloromethane	ug/L	ND	50	50	49.0	37.0	98	74	70-130	28				
cis-1,2-Dichloroethene	ug/L	ND	50	50	60.8	49.0	122	98	70-130	21				
cis-1,3-Dichloropropene	ug/L	ND	50	50	63.1	48.5	126	97	70-130	26				
Cyclohexane	ug/L	ND	50	50	69.7	57.7	139	115	70-130	19	M0			
Dibromochloromethane	ug/L	ND	50	50	63.5	49.3	127	99	70-130	25				
Dichlorodifluoromethane	ug/L	ND	50	50	73.4	60.7	147	121	70-130	19	M0			
Ethylbenzene	ug/L	ND	50	50	62.0	50.7	124	101	70-130	20				
Isopropylbenzene (Cumene)	ug/L	ND	50	50	65.9	52.9	132	106	70-130	22	M0			
Methyl acetate	ug/L	ND	50	50	41.7	36.1	83	72	70-130	14				
Methyl-tert-butyl ether	ug/L	ND	50	50	62.4	50.5	125	101	70-130	21				
Methylcyclohexane	ug/L	ND	50	50	76.1	58.6	152	117	70-130	26	M0			
Methylene Chloride	ug/L	ND	50	50	61.4	49.5	123	99	70-130	21				
Styrene	ug/L	ND	50	50	64.4	50.5	129	101	70-130	24				
Tetrachloroethene	ug/L	ND	50	50	66.2	54.6	132	109	70-130	19	M0			
Toluene	ug/L	ND	50	50	64.4	50.0	129	100	70-130	25				
trans-1,2-Dichloroethene	ug/L	ND	50	50	60.0	49.1	120	98	70-130	20				
trans-1,3-Dichloropropene	ug/L	ND	50	50	65.8	51.2	132	102	70-130	25	M0			
Trichloroethene	ug/L	ND	50	50	65.1	51.9	130	104	70-130	22				
Trichlorofluoromethane	ug/L	ND	50	50	68.4	55.6	137	111	70-130	21	M0			
Vinyl acetate	ug/L	ND	100	100	130	105	130	105	70-130	22				
Vinyl chloride	ug/L	ND	50	50	59.5	50.0	119	100	70-130	17				
1,2-Dichloroethane-d4 (S)	%						97	100	70-130					
4-Bromofluorobenzene (S)	%						101	101	70-130					
Toluene-d8 (S)	%						102	100	70-130					

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

QC Batch: MSV/26317 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
 Associated Lab Samples: 92195574005, 92195574007, 92195574008, 92195574009

METHOD BLANK: 1171666 Matrix: Water
 Associated Lab Samples: 92195574005, 92195574007, 92195574008, 92195574009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/04/14 12:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/04/14 12:31	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/04/14 12:31	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	04/04/14 12:31	
1,1-Dichloroethane	ug/L	ND	5.0	04/04/14 12:31	
1,1-Dichloroethene	ug/L	ND	5.0	04/04/14 12:31	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	04/04/14 12:31	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/04/14 12:31	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	04/04/14 12:31	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	04/04/14 12:31	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/04/14 12:31	
1,2-Dichloroethane	ug/L	ND	5.0	04/04/14 12:31	
1,2-Dichloropropane	ug/L	ND	5.0	04/04/14 12:31	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/04/14 12:31	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/04/14 12:31	
2-Butanone (MEK)	ug/L	ND	10.0	04/04/14 12:31	
2-Hexanone	ug/L	ND	10.0	04/04/14 12:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/04/14 12:31	
Acetone	ug/L	ND	25.0	04/04/14 12:31	
Benzene	ug/L	ND	5.0	04/04/14 12:31	
Bromodichloromethane	ug/L	ND	5.0	04/04/14 12:31	
Bromoform	ug/L	ND	5.0	04/04/14 12:31	
Bromomethane	ug/L	ND	10.0	04/04/14 12:31	
Carbon disulfide	ug/L	ND	10.0	04/04/14 12:31	
Carbon tetrachloride	ug/L	ND	5.0	04/04/14 12:31	
Chlorobenzene	ug/L	ND	5.0	04/04/14 12:31	
Chloroethane	ug/L	ND	10.0	04/04/14 12:31	
Chloroform	ug/L	ND	5.0	04/04/14 12:31	
Chloromethane	ug/L	ND	5.0	04/04/14 12:31	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/04/14 12:31	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/04/14 12:31	
Cyclohexane	ug/L	ND	5.0	04/04/14 12:31	
Dibromochloromethane	ug/L	ND	5.0	04/04/14 12:31	
Dichlorodifluoromethane	ug/L	ND	5.0	04/04/14 12:31	
Ethylbenzene	ug/L	ND	5.0	04/04/14 12:31	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	04/04/14 12:31	
Methyl acetate	ug/L	ND	10.0	04/04/14 12:31	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/04/14 12:31	
Methylcyclohexane	ug/L	ND	10.0	04/04/14 12:31	
Methylene Chloride	ug/L	ND	5.0	04/04/14 12:31	
Styrene	ug/L	ND	5.0	04/04/14 12:31	
Tetrachloroethene	ug/L	ND	5.0	04/04/14 12:31	
Toluene	ug/L	ND	5.0	04/04/14 12:31	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

METHOD BLANK: 1171666

Matrix: Water

Associated Lab Samples: 92195574005, 92195574007, 92195574008, 92195574009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/04/14 12:31	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/04/14 12:31	
Trichloroethene	ug/L	ND	5.0	04/04/14 12:31	
Trichlorofluoromethane	ug/L	ND	10.0	04/04/14 12:31	
Vinyl acetate	ug/L	ND	10.0	04/04/14 12:31	
Vinyl chloride	ug/L	ND	5.0	04/04/14 12:31	
Xylene (Total)	ug/L	ND	10.0	04/04/14 12:31	
1,2-Dichloroethane-d4 (S)	%	102	70-130	04/04/14 12:31	
4-Bromofluorobenzene (S)	%	99	70-130	04/04/14 12:31	
Toluene-d8 (S)	%	102	70-130	04/04/14 12:31	

LABORATORY CONTROL SAMPLE: 1171667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.9	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.8	96	70-130	
1,1,2-Trichloroethane	ug/L	50	51.7	103	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	60.8	122	70-130	
1,1-Dichloroethane	ug/L	50	49.8	100	70-130	
1,1-Dichloroethene	ug/L	50	47.3	95	70-130	
1,2,3-Trichlorobenzene	ug/L	50	53.3	107	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.7	95	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.2	104	70-130	
1,2-Dichlorobenzene	ug/L	50	50.3	101	70-130	
1,2-Dichloroethane	ug/L	50	51.6	103	70-130	
1,2-Dichloropropane	ug/L	50	51.1	102	70-130	
1,3-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,4-Dichlorobenzene	ug/L	50	51.2	102	70-130	
2-Butanone (MEK)	ug/L	100	95.5	95	70-130	
2-Hexanone	ug/L	100	91.7	92	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.3	92	70-130	
Acetone	ug/L	100	103	103	70-130	
Benzene	ug/L	50	53.0	106	70-130	
Bromodichloromethane	ug/L	50	50.9	102	70-130	
Bromoform	ug/L	50	50.1	100	70-130	
Bromomethane	ug/L	50	49.9	100	70-130	
Carbon disulfide	ug/L	50	48.0	96	70-130	
Carbon tetrachloride	ug/L	50	55.1	110	70-130	
Chlorobenzene	ug/L	50	51.2	102	70-130	
Chloroethane	ug/L	50	45.7	91	70-130	
Chloroform	ug/L	50	50.2	100	70-130	
Chloromethane	ug/L	50	38.4	77	70-130	
cis-1,2-Dichloroethene	ug/L	50	48.9	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.6	103	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

LABORATORY CONTROL SAMPLE: 1171667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyclohexane	ug/L	50	55.0	110	70-130	
Dibromochloromethane	ug/L	50	52.6	105	70-130	
Dichlorodifluoromethane	ug/L	50	58.2	116	70-130	
Ethylbenzene	ug/L	50	50.7	101	70-130	
Isopropylbenzene (Cumene)	ug/L	50	53.1	106	70-130	
Methyl acetate	ug/L	50	35.5	71	70-130	
Methyl-tert-butyl ether	ug/L	50	51.5	103	70-130	
Methylcyclohexane	ug/L	50	60.9	122	70-130	
Methylene Chloride	ug/L	50	51.1	102	70-130	
Styrene	ug/L	50	52.9	106	70-130	
Tetrachloroethene	ug/L	50	52.4	105	70-130	
Toluene	ug/L	50	51.8	104	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.4	107	70-130	
Trichloroethene	ug/L	50	51.2	102	70-130	
Trichlorofluoromethane	ug/L	50	53.1	106	70-130	
Vinyl acetate	ug/L	100	109	109	70-130	
Vinyl chloride	ug/L	50	48.3	97	70-130	
Xylene (Total)	ug/L	150	157	104	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1172765 1172766

Parameter	Units	MS 92195574005		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,1,1-Trichloroethane	ug/L	ND	50	50	59.7	61.9	119	124	70-130	4		
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	46.3	48.6	93	97	70-130	5		
1,1,2-Trichloroethane	ug/L	ND	50	50	50.5	51.6	101	103	70-130	2		
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	65.7	72.4	131	145	70-130	10 M0		
1,1-Dichloroethane	ug/L	ND	50	50	52.0	55.8	104	112	70-130	7		
1,1-Dichloroethene	ug/L	ND	50	50	56.0	59.6	104	111	70-130	6		
1,2,3-Trichlorobenzene	ug/L	ND	50	50	53.1	55.7	106	111	70-130	5		
1,2,4-Trichlorobenzene	ug/L	ND	50	50	49.0	51.7	98	103	70-130	5		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	48.6	48.9	97	98	70-130	1		
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	48.8	49.6	98	99	70-130	1		
1,2-Dichlorobenzene	ug/L	ND	50	50	49.2	49.9	98	100	70-130	1		
1,2-Dichloroethane	ug/L	ND	50	50	52.7	56.9	105	114	70-130	8		
1,2-Dichloropropane	ug/L	ND	50	50	49.1	51.1	98	102	70-130	4		
1,3-Dichlorobenzene	ug/L	ND	50	50	47.8	49.2	96	98	70-130	3		
1,4-Dichlorobenzene	ug/L	ND	50	50	48.6	51.0	97	102	70-130	5		
2-Butanone (MEK)	ug/L	ND	100	100	92.1	99.3	92	99	70-130	8		
2-Hexanone	ug/L	ND	100	100	88.6	92.4	89	92	70-130	4		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	92.5	95.7	93	96	70-130	3		
Acetone	ug/L	ND	100	100	84.6	94.3	85	94	70-130	11		
Benzene	ug/L	ND	50	50	53.9	55.3	108	111	70-130	3		

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Parameter	92195574005		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
Bromodichloromethane	ug/L	ND	50	50	51.8	53.2	104	106	70-130	3				
Bromoform	ug/L	ND	50	50	49.2	51.4	98	103	70-130	4				
Bromomethane	ug/L	ND	50	50	55.9	60.5	112	121	70-130	8				
Carbon disulfide	ug/L	ND	50	50	53.9	56.4	108	113	70-130	5				
Carbon tetrachloride	ug/L	ND	50	50	58.3	59.9	117	120	70-130	3				
Chlorobenzene	ug/L	ND	50	50	49.9	51.5	100	103	70-130	3				
Chloroethane	ug/L	ND	50	50	50.0	50.9	100	102	70-130	2				
Chloroform	ug/L	39.8	50	50	96.5	98.0	113	116	70-130	2				
Chloromethane	ug/L	ND	50	50	44.6	45.7	89	91	70-130	2				
cis-1,2-Dichloroethene	ug/L	ND	50	50	51.7	55.2	103	110	70-130	6				
cis-1,3-Dichloropropene	ug/L	ND	50	50	51.3	52.9	103	106	70-130	3				
Cyclohexane	ug/L	ND	50	50	61.7	64.3	123	129	70-130	4				
Dibromochloromethane	ug/L	ND	50	50	49.8	51.1	100	102	70-130	3				
Dichlorodifluoromethane	ug/L	ND	50	50	61.3	65.1	123	130	70-130	6				
Ethylbenzene	ug/L	ND	50	50	49.4	51.2	99	102	70-130	4				
Isopropylbenzene (Cumene)	ug/L	ND	50	50	53.5	54.9	107	110	70-130	3				
Methyl acetate	ug/L	ND	50	50	35.4	38.6	71	77	70-130	9				
Methyl-tert-butyl ether	ug/L	ND	50	50	52.7	56.9	105	114	70-130	8				
Methylcyclohexane	ug/L	ND	50	50	62.5	64.0	125	128	70-130	2				
Methylene Chloride	ug/L	ND	50	50	51.6	55.0	103	110	70-130	6				
Styrene	ug/L	ND	50	50	50.6	51.6	101	103	70-130	2				
Tetrachloroethene	ug/L	ND	50	50	55.5	55.1	111	110	70-130	1				
Toluene	ug/L	ND	50	50	52.1	54.3	104	109	70-130	4				
trans-1,2-Dichloroethene	ug/L	ND	50	50	52.3	54.6	105	109	70-130	4				
trans-1,3-Dichloropropene	ug/L	ND	50	50	52.5	55.9	105	112	70-130	6				
Trichloroethene	ug/L	ND	50	50	53.5	54.7	107	109	70-130	2				
Trichlorofluoromethane	ug/L	ND	50	50	61.8	64.3	124	129	70-130	4				
Vinyl acetate	ug/L	ND	100	100	110	119	110	119	70-130	8				
Vinyl chloride	ug/L	ND	50	50	52.8	56.2	106	112	70-130	6				
1,2-Dichloroethane-d4 (S)	%						106	106	70-130					
4-Bromofluorobenzene (S)	%						104	104	70-130					
Toluene-d8 (S)	%						102	101	70-130					

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

QC Batch: MSV/26316 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92195574008, 92195574009

METHOD BLANK: 1171636 Matrix: Water

Associated Lab Samples: 92195574008, 92195574009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	04/08/14 12:41	
1,2-Dichloroethane-d4 (S)	%	102	50-150	04/08/14 12:41	
Toluene-d8 (S)	%	100	50-150	04/08/14 12:41	

LABORATORY CONTROL SAMPLE: 1171637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	22.2	111	50-150	
1,2-Dichloroethane-d4 (S)	%			100	50-150	
Toluene-d8 (S)	%			101	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1171638 1171639

Parameter	Units	92195116002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	22.7	22.1	113	110	50-150	3	
1,2-Dichloroethane-d4 (S)	%						105	105	50-150		
Toluene-d8 (S)	%						94	94	50-150		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1171640 1171641

Parameter	Units	92196006001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	2.3	20	20	25.5	26.8	116	123	50-150	5	
1,2-Dichloroethane-d4 (S)	%						101	103	50-150		
Toluene-d8 (S)	%						95	95	50-150		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

QC Batch: OEXT/26857 Analysis Method: EPA 8270
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
 Associated Lab Samples: 92195574008, 92195574009

METHOD BLANK: 1171964 Matrix: Water

Associated Lab Samples: 92195574008, 92195574009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	ND	10.0	04/07/14 16:26	
2,4,5-Trichlorophenol	ug/L	ND	10.0	04/07/14 16:26	
2,4,6-Trichlorophenol	ug/L	ND	10.0	04/07/14 16:26	
2,4-Dichlorophenol	ug/L	ND	10.0	04/07/14 16:26	
2,4-Dimethylphenol	ug/L	ND	10.0	04/07/14 16:26	
2,4-Dinitrophenol	ug/L	ND	50.0	04/07/14 16:26	
2,4-Dinitrotoluene	ug/L	ND	10.0	04/07/14 16:26	
2,6-Dinitrotoluene	ug/L	ND	10.0	04/07/14 16:26	
2-Chloronaphthalene	ug/L	ND	10.0	04/07/14 16:26	
2-Chlorophenol	ug/L	ND	10.0	04/07/14 16:26	
2-Methylnaphthalene	ug/L	ND	10.0	04/07/14 16:26	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/07/14 16:26	
2-Nitroaniline	ug/L	ND	50.0	04/07/14 16:26	
2-Nitrophenol	ug/L	ND	10.0	04/07/14 16:26	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	04/07/14 16:26	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	04/07/14 16:26	
3-Nitroaniline	ug/L	ND	50.0	04/07/14 16:26	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	04/07/14 16:26	
4-Bromophenylphenyl ether	ug/L	ND	10.0	04/07/14 16:26	
4-Chloro-3-methylphenol	ug/L	ND	20.0	04/07/14 16:26	
4-Chloroaniline	ug/L	ND	20.0	04/07/14 16:26	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	04/07/14 16:26	
4-Nitroaniline	ug/L	ND	20.0	04/07/14 16:26	
4-Nitrophenol	ug/L	ND	50.0	04/07/14 16:26	
Acenaphthene	ug/L	ND	10.0	04/07/14 16:26	
Acenaphthylene	ug/L	ND	10.0	04/07/14 16:26	
Anthracene	ug/L	ND	10.0	04/07/14 16:26	
Atrazine	ug/L	ND	20.0	04/07/14 16:26	
Benzaldehyde	ug/L	ND	20.0	04/07/14 16:26	
Benzo(a)anthracene	ug/L	ND	10.0	04/07/14 16:26	
Benzo(a)pyrene	ug/L	ND	10.0	04/07/14 16:26	
Benzo(b)fluoranthene	ug/L	ND	10.0	04/07/14 16:26	
Benzo(g,h,i)perylene	ug/L	ND	10.0	04/07/14 16:26	
Benzo(k)fluoranthene	ug/L	ND	10.0	04/07/14 16:26	
Biphenyl (Diphenyl)	ug/L	ND	10.0	04/07/14 16:26	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	04/07/14 16:26	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	04/07/14 16:26	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	04/07/14 16:26	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	04/07/14 16:26	
Butylbenzylphthalate	ug/L	ND	10.0	04/07/14 16:26	
Caprolactam	ug/L	ND	10.0	04/07/14 16:26	
Carbazole	ug/L	ND	10.0	04/07/14 16:26	
Chrysene	ug/L	ND	10.0	04/07/14 16:26	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

METHOD BLANK: 1171964

Matrix: Water

Associated Lab Samples: 92195574008, 92195574009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Di-n-butylphthalate	ug/L	ND	10.0	04/07/14 16:26	
Di-n-octylphthalate	ug/L	ND	10.0	04/07/14 16:26	
Dibenz(a,h)anthracene	ug/L	ND	10.0	04/07/14 16:26	
Dibenzofuran	ug/L	ND	10.0	04/07/14 16:26	
Diethylphthalate	ug/L	ND	10.0	04/07/14 16:26	
Dimethylphthalate	ug/L	ND	10.0	04/07/14 16:26	
Diphenyl ether (Phenyl ether)	ug/L	ND	20.0	04/07/14 16:26	
Fluoranthene	ug/L	ND	10.0	04/07/14 16:26	
Fluorene	ug/L	ND	10.0	04/07/14 16:26	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	04/07/14 16:26	
Hexachlorobenzene	ug/L	ND	10.0	04/07/14 16:26	
Hexachlorocyclopentadiene	ug/L	ND	10.0	04/07/14 16:26	
Hexachloroethane	ug/L	ND	10.0	04/07/14 16:26	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	04/07/14 16:26	
Isophorone	ug/L	ND	10.0	04/07/14 16:26	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	04/07/14 16:26	
N-Nitrosodiphenylamine	ug/L	ND	10.0	04/07/14 16:26	
Naphthalene	ug/L	ND	10.0	04/07/14 16:26	
Nitrobenzene	ug/L	ND	10.0	04/07/14 16:26	
Pentachlorophenol	ug/L	ND	25.0	04/07/14 16:26	
Phenanthrene	ug/L	ND	10.0	04/07/14 16:26	
Phenol	ug/L	ND	10.0	04/07/14 16:26	
Pyrene	ug/L	ND	10.0	04/07/14 16:26	
2,4,6-Tribromophenol (S)	%	66	27-110	04/07/14 16:26	
2-Fluorobiphenyl (S)	%	77	27-110	04/07/14 16:26	
2-Fluorophenol (S)	%	46	12-110	04/07/14 16:26	
Nitrobenzene-d5 (S)	%	79	21-110	04/07/14 16:26	
Phenol-d6 (S)	%	34	10-110	04/07/14 16:26	
Terphenyl-d14 (S)	%	102	31-107	04/07/14 16:26	

LABORATORY CONTROL SAMPLE: 1171965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	50	48.3	97	17-115	
2,4,5-Trichlorophenol	ug/L	50	47.9	96	23-116	
2,4,6-Trichlorophenol	ug/L	50	45.3	91	21-114	
2,4-Dichlorophenol	ug/L	50	35.1	70	22-120	
2,4-Dimethylphenol	ug/L	50	33.5	67	15-109	
2,4-Dinitrophenol	ug/L	250	282	113	10-103	L0
2,4-Dinitrotoluene	ug/L	50	51.5	103	24-119	
2,6-Dinitrotoluene	ug/L	50	50.4	101	25-116	
2-Chloronaphthalene	ug/L	50	49.5	99	18-110	
2-Chlorophenol	ug/L	50	43.0	86	10-104	
2-Methylnaphthalene	ug/L	50	33.9	68	16-110	
2-Methylphenol(o-Cresol)	ug/L	50	40.3	81	13-110	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

LABORATORY CONTROL SAMPLE: 1171965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Nitroaniline	ug/L	100	108	108	20-117	
2-Nitrophenol	ug/L	50	35.4	71	16-108	
3&4-Methylphenol(m&p Cresol)	ug/L	50	38.6	77	14-110	
3,3'-Dichlorobenzidine	ug/L	250	83.8	34	13-131	
3-Nitroaniline	ug/L	100	100	100	15-117	
4,6-Dinitro-2-methylphenol	ug/L	100	104	104	13-119	
4-Bromophenylphenyl ether	ug/L	50	39.4	79	23-120	
4-Chloro-3-methylphenol	ug/L	100	75.7	76	21-119	
4-Chloroaniline	ug/L	100	68.9	69	10-122	
4-Chlorophenylphenyl ether	ug/L	50	46.6	93	22-112	
4-Nitroaniline	ug/L	100	105	105	14-118	
4-Nitrophenol	ug/L	250	122	49	10-110	
Acenaphthene	ug/L	50	41.9	84	20-105	
Acenaphthylene	ug/L	50	44.5	89	23-106	
Anthracene	ug/L	50	43.5	87	25-120	
Atrazine	ug/L	50	40.4	81	17-115	
Benzaldehyde	ug/L	50	ND	0	17-115	L2
Benzo(a)anthracene	ug/L	50	46.0	92	21-128	
Benzo(a)pyrene	ug/L	50	48.6	97	25-116	
Benzo(b)fluoranthene	ug/L	50	49.2	98	23-117	
Benzo(g,h,i)perylene	ug/L	50	51.8	104	17-128	
Benzo(k)fluoranthene	ug/L	50	46.0	92	25-127	
Biphenyl (Diphenyl)	ug/L	50	43.7	87	17-115	
bis(2-Chloroethoxy)methane	ug/L	50	46.0	92	19-107	
bis(2-Chloroethyl) ether	ug/L	50	44.5	89	10-108	
bis(2-Chloroisopropyl) ether	ug/L	50	42.3	85	10-108	
bis(2-Ethylhexyl)phthalate	ug/L	50	47.0	94	16-123	
Butylbenzylphthalate	ug/L	50	46.0	92	20-118	
Caprolactam	ug/L	50	13.4	27	17-115	
Carbazole	ug/L	50	45.3	91	17-115	
Chrysene	ug/L	50	47.0	94	24-125	
Di-n-butylphthalate	ug/L	50	42.7	85	23-115	
Di-n-octylphthalate	ug/L	50	46.1	92	20-115	
Dibenz(a,h)anthracene	ug/L	50	51.0	102	18-131	
Dibenzofuran	ug/L	50	48.1	96	23-106	
Diethylphthalate	ug/L	50	45.3	91	24-115	
Dimethylphthalate	ug/L	50	45.1	90	22-113	
Diphenyl ether (Phenyl ether)	ug/L	50	46.4	93	17-115	
Fluoranthene	ug/L	50	44.9	90	24-125	
Fluorene	ug/L	50	45.5	91	24-114	
Hexachloro-1,3-butadiene	ug/L	50	30.2	60	10-110	
Hexachlorobenzene	ug/L	50	39.2	78	22-127	
Hexachlorocyclopentadiene	ug/L	50	45.7	91	10-110	
Hexachloroethane	ug/L	50	45.2	90	10-110	
Indeno(1,2,3-cd)pyrene	ug/L	50	52.9	106	18-130	
Isophorone	ug/L	50	40.1	80	23-114	
N-Nitroso-di-n-propylamine	ug/L	50	46.6	93	21-114	
N-Nitrosodiphenylamine	ug/L	50	33.7	67	24-123	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

LABORATORY CONTROL SAMPLE: 1171965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	33.2	66	14-110	
Nitrobenzene	ug/L	50	38.5	77	16-106	
Pentachlorophenol	ug/L	250	83.3	33	10-123	
Phenanthrene	ug/L	50	42.8	86	25-119	
Phenol	ug/L	50	23.4	47	10-110	
Pyrene	ug/L	50	49.2	98	22-127	
2,4,6-Tribromophenol (S)	%			80	27-110	
2-Fluorobiphenyl (S)	%			89	27-110	
2-Fluorophenol (S)	%			60	12-110	
Nitrobenzene-d5 (S)	%			73	21-110	
Phenol-d6 (S)	%			45	10-110	
Terphenyl-d14 (S)	%			98	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1171966 1171967

Parameter	92195993004		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec			
1,2,4,5-Tetrachlorobenzene	ug/L	ND	100	100	91.2	83.7	91	84	50-150	9	
2,4,5-Trichlorophenol	ug/L	ND	100	100	94.4	102	94	102	19-105	8	
2,4,6-Trichlorophenol	ug/L	ND	100	100	87.3	91.7	87	92	13-108	5	
2,4-Dichlorophenol	ug/L	ND	100	100	68.4	80.1	68	80	29-111	16	
2,4-Dimethylphenol	ug/L	ND	100	100	64.1	68.6	64	69	21-103	7	
2,4-Dinitrophenol	ug/L	ND	500	500	506	445	101	89	10-109	13	
2,4-Dinitrotoluene	ug/L	ND	100	100	124	115	124	115	27-104	7	M1
2,6-Dinitrotoluene	ug/L	ND	100	100	117	121	117	121	28-101	3	M1
2-Chloronaphthalene	ug/L	ND	100	100	93.1	90.7	93	91	14-102	3	
2-Chlorophenol	ug/L	ND	100	100	101	116	101	116	16-110	14	M1
2-Methylnaphthalene	ug/L	ND	100	100	64.7	72.7	65	73	13-110	12	
2-Methylphenol(o-Cresol)	ug/L	ND	100	100	91.5	118	92	118	19-110	25	M1
2-Nitroaniline	ug/L	ND	200	200	223	229	112	115	26-103	3	M1
2-Nitrophenol	ug/L	ND	100	100	76.4	78.5	76	78	20-110	3	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	100	100	80.7	110	81	110	20-110	31	M1
3,3'-Dichlorobenzidine	ug/L	ND	500	500	228	242	46	48	25-112	6	
3-Nitroaniline	ug/L	ND	200	200	231	228	116	114	29-110	1	M1
4,6-Dinitro-2-methylphenol	ug/L	ND	200	200	185	192	92	96	10-117	4	
4-Bromophenylphenyl ether	ug/L	ND	100	100	71.5	79.7	71	80	20-105	11	
4-Chloro-3-methylphenol	ug/L	ND	200	200	140	183	70	92	22-110	27	
4-Chloroaniline	ug/L	ND	200	200	127	162	64	81	20-100	24	
4-Chlorophenylphenyl ether	ug/L	ND	100	100	87.6	92.0	88	92	19-102	5	
4-Nitroaniline	ug/L	ND	200	200	292	265	146	133	29-110	10	M1
4-Nitrophenol	ug/L	ND	500	500	434	434	87	87	10-110	0	
Acenaphthene	ug/L	ND	100	100	82.7	85.8	83	86	17-100	4	
Acenaphthylene	ug/L	ND	100	100	86.7	90.6	87	91	21-100	4	
Anthracene	ug/L	ND	100	100	87.0	89.8	87	90	24-109	3	
Atrazine	ug/L	ND	100	100	113	115	113	115	50-150	2	
Benzaldehyde	ug/L	ND	100	100	ND	ND	3	3	50-150		M0

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Parameter	92195993004		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Benzo(a)anthracene	ug/L	ND	100	100	89.0	91.2	89	91	22-117	2				
Benzo(a)pyrene	ug/L	ND	100	100	98.0	100	98	100	23-104	2				
Benzo(b)fluoranthene	ug/L	ND	100	100	108	103	108	103	23-103	4	M1			
Benzo(g,h,i)perylene	ug/L	ND	100	100	90.1	94.1	90	94	18-111	4				
Benzo(k)fluoranthene	ug/L	ND	100	100	80.8	86.4	81	86	22-113	7				
Biphenyl (Diphenyl)	ug/L	ND	100	100	85.4	83.9	85	84	50-150	2				
bis(2-Chloroethoxy)methane	ug/L	ND	100	100	81.4	83.5	81	84	22-110	3				
bis(2-Chloroethyl) ether	ug/L	ND	100	100	89.1	101	89	101	16-110	13				
bis(2-Chloroisopropyl) ether	ug/L	ND	100	100	88.9	95.1	89	95	14-110	7				
bis(2-Ethylhexyl)phthalate	ug/L	ND	100	100	74.6	68.9	75	69	23-102	8				
Butylbenzylphthalate	ug/L	ND	100	100	85.0	81.6	85	82	25-110	4				
Caprolactam	ug/L	ND	100	100	46.7	73.0	47	73	50-150	44	M1, R1			
Carbazole	ug/L	ND	100	100	114	120	114	120	50-150	5				
Chrysene	ug/L	ND	100	100	90.6	93.6	91	94	23-115	3				
Di-n-butylphthalate	ug/L	ND	100	100	98.4	98.9	98	99	26-110	0				
Di-n-octylphthalate	ug/L	ND	100	100	86.0	83.3	86	83	22-110	3				
Dibenz(a,h)anthracene	ug/L	ND	100	100	93.3	97.2	93	97	21-112	4				
Dibenzofuran	ug/L	ND	100	100	94.0	99.0	94	99	19-102	5				
Diethylphthalate	ug/L	ND	100	100	94.8	93.0	95	93	29-110	2				
Dimethylphthalate	ug/L	ND	100	100	89.6	92.2	90	92	27-110	3				
Diphenyl ether (Phenyl ether)	ug/L	ND	100	100	84.5	85.1	85	85	50-150	1				
Fluoranthene	ug/L	ND	100	100	117	123	117	123	23-112	5	M1			
Fluorene	ug/L	ND	100	100	95.8	96.8	96	97	22-104	1				
Hexachloro-1,3-butadiene	ug/L	ND	100	100	74.0	68.0	74	68	10-110	8				
Hexachlorobenzene	ug/L	ND	100	100	78.3	85.9	78	86	21-116	9				
Hexachlorocyclopentadiene	ug/L	ND	100	100	91.1	76.5	91	76	10-110	17				
Hexachloroethane	ug/L	ND	100	100	93.5	98.3	93	98	10-110	5				
Indeno(1,2,3-cd)pyrene	ug/L	ND	100	100	96.4	100	96	100	20-113	4				
Isophorone	ug/L	ND	100	100	68.9	74.6	69	75	50-150	8				
N-Nitroso-di-n-propylamine	ug/L	ND	100	100	83.4	102	83	102	21-105	20				
N-Nitrosodiphenylamine	ug/L	ND	100	100	63.7	70.2	64	70	23-107	10				
Naphthalene	ug/L	ND	100	100	68.4	69.3	68	69	10-110	1				
Nitrobenzene	ug/L	ND	100	100	65.7	65.2	66	65	20-110	1				
Pentachlorophenol	ug/L	ND	500	500	198	200	40	40	10-118	1				
Phenanthrene	ug/L	ND	100	100	81.7	85.0	82	85	24-106	4				
Phenol	ug/L	ND	100	100	63.4	85.4	63	85	12-110	30				
Pyrene	ug/L	ND	100	100	70.5	67.3	71	67	24-114	5				
2,4,6-Tribromophenol (S)	%						95	101	27-110					
2-Fluorobiphenyl (S)	%						86	83	27-110					
2-Fluorophenol (S)	%						70	79	12-110					
Nitrobenzene-d5 (S)	%						67	67	21-110					
Phenol-d6 (S)	%						57	79	10-110					
Terphenyl-d14 (S)	%						70	67	31-107					

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

QC Batch: WET/30400 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Associated Lab Samples: 92195574001, 92195574002, 92195574003, 92195574004, 92195574005, 92195574008, 92195574009

METHOD BLANK: 1173393 Matrix: Water
 Associated Lab Samples: 92195574001, 92195574002, 92195574003, 92195574004, 92195574005, 92195574008, 92195574009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	04/08/14 10:46	

LABORATORY CONTROL SAMPLE: 1173394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.0	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1173395 1173396

Parameter	Units	92195574005		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Alkalinity, Total as CaCO3	mg/L	8.7	50	50	58.5	58.4	100	99	75-125	0				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1173397 1173398

Parameter	Units	92195574009		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Alkalinity, Total as CaCO3	mg/L	64.8	50	50	115	112	99	94	75-125	2				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC
Pace Project No.: 92195574

QC Batch: WETA/18648 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92195574001, 92195574002, 92195574003, 92195574004, 92195574005, 92195574008, 92195574009

METHOD BLANK: 1175975 Matrix: Water
Associated Lab Samples: 92195574001, 92195574002, 92195574003, 92195574004, 92195574005, 92195574008, 92195574009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	04/10/14 18:32	

LABORATORY CONTROL SAMPLE: 1175976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.9	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1175977 1175978

Parameter	Units	92195508005		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Chloride	mg/L	30.8	20	20	55.5	56.0	123	126	75-125	1	M6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1175979 1175980

Parameter	Units	92195574005		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Chloride	mg/L	1.2	20	20	22.8	22.7	108	107	75-125	1		

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QUALIFIERS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

PASI-G Pace Analytical Services - Greenwood

ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195574

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92195574001	MW-138	EPA 9060A	GWD/1157		
92195574002	RW-139	EPA 9060A	GWD/1157		
92195574003	RW-136	EPA 9060A	GWD/1157		
92195574004	RW-137	EPA 9060A	GWD/1157		
92195574005	MW-130	EPA 9060A	GWD/1157		
92195574008	MW-112	EPA 9060A	GWD/1157		
92195574009	RW-113	EPA 9060A	GWD/1157		
92195574001	MW-138	EPA 3010	MPRP/15659	EPA 6010	ICP/14186
92195574002	RW-139	EPA 3010	MPRP/15659	EPA 6010	ICP/14186
92195574003	RW-136	EPA 3010	MPRP/15659	EPA 6010	ICP/14186
92195574004	RW-137	EPA 3010	MPRP/15659	EPA 6010	ICP/14186
92195574005	MW-130	EPA 3010	MPRP/15659	EPA 6010	ICP/14186
92195574008	MW-112	EPA 3010	MPRP/15659	EPA 6010	ICP/14186
92195574009	RW-113	EPA 3010	MPRP/15659	EPA 6010	ICP/14186
92195574008	MW-112	EPA 3510	OEXT/26857	EPA 8270	MSSV/8944
92195574009	RW-113	EPA 3510	OEXT/26857	EPA 8270	MSSV/8944
92195574001	MW-138	EPA 8260	MSV/26302		
92195574002	RW-139	EPA 8260	MSV/26302		
92195574003	RW-136	EPA 8260	MSV/26302		
92195574004	RW-137	EPA 8260	MSV/26302		
92195574005	MW-130	EPA 8260	MSV/26317		
92195574006	MW-301	EPA 8260	MSV/26302		
92195574007	RES PUMP RW-131	EPA 8260	MSV/26317		
92195574008	MW-112	EPA 8260	MSV/26317		
92195574009	RW-113	EPA 8260	MSV/26317		
92195574008	MW-112	EPA 8260B Mod.	MSV/26316		
92195574009	RW-113	EPA 8260B Mod.	MSV/26316		
92195574001	MW-138	SM 2320B	WET/30400		
92195574002	RW-139	SM 2320B	WET/30400		
92195574003	RW-136	SM 2320B	WET/30400		
92195574004	RW-137	SM 2320B	WET/30400		
92195574005	MW-130	SM 2320B	WET/30400		
92195574008	MW-112	SM 2320B	WET/30400		
92195574009	RW-113	SM 2320B	WET/30400		
92195574001	MW-138	SM 4500-CI-E	WETA/18648		
92195574002	RW-139	SM 4500-CI-E	WETA/18648		
92195574003	RW-136	SM 4500-CI-E	WETA/18648		
92195574004	RW-137	SM 4500-CI-E	WETA/18648		
92195574005	MW-130	SM 4500-CI-E	WETA/18648		
92195574008	MW-112	SM 4500-CI-E	WETA/18648		
92195574009	RW-113	SM 4500-CI-E	WETA/18648		

REPORT OF LABORATORY ANALYSIS

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Client Name: AECOM

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used: IR Gun T1102 T1301 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor T1102: No Correction T1301: No Correction

Corrected Cooler Temp.: 2.7 °C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: CSG/1/14

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:

[Signature]

Date: 4/1/14

SRF Review:

[Signature]

Date: 4/2/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92195574



92195574

Chain of Custody and Analytical Request

Project Name / Location: Auriga, Spartanburg SC

Page 1 of 1
 Project Number: 60280417
 Chain of Custody Number (1):
 LIMS Number:

Client Name: Celanese

Collected by: Justin Butler / Randy Morgan
 Project Manager: Bryon Dahlgren

Sample ID	Date Collected (dd-mm-yyyy)	Time Collected (Military) (hh:mm)	See Comments			Sample Information	Sample Analysis Requested						Quality Assurance Samples	Cooler ID			
			COMP	GRAB	Well		VOCS 8260	TOC	Alkalinity	Chloride	Dissolved Manganese	1,4 Dioxane (8260 SIM)			Dow Therm A		
MW-138	31-Mar-2014	1145	X				X	X	X	X	X						
MW-139	31-Mar-2014	1405	X				X	X	X	X	X						
MW-136	31-Mar-2014	1545	X				X	X	X	X	X						
MW-137	31-Mar-2014	1710	X				X	X	X	X	X						
MW-301	31-Mar-2014	1800	X				X										
MW-112	1-Apr-2014	1055	X				X	X	X	X	X						
Residual Pump RW-131	1-Apr-2014	1020	X				X										
MW-130	1-Apr-2014	1300	X				X	X	X	X	X						
MW-130-M5	1-Apr-2014	1200	X				X	X	X	X	X						
MW-130-M5D	1-Apr-2014	1200	X				X	X	X	X	X						
MW-130-M5D	1-Apr-2014	1200	X				X	X	X	X	X						
MW-113	1-Apr-2014	1315	X				X	X	X	X	X						

Custody Transfers Prior to Receipt by Laboratory

1. Relinquished By (Signed):	Date: 4/1/14	Time: 1300	Received By (Signed):	Date: 4/1/14	Time: 1305
2.	Date: 4/1/14	Time: 1455	3.	Date: 4/1/14	Time: 1455

Delivered Directly to Lab: Pace Courier
 Method of Shipment: Pace Analytical
 Analytical Lab: _____
 Lab Recipient: _____

Sample Delivery Details / Laboratory Receipt

Shipped:
 Airbill #: _____
 Location: Huntersville, NC
 Date: _____ Time: _____

1) Chain of Custody Number = date collected + custody number (e.g. 01-19-2004-01)

April 17, 2014

Bryon Dahlgren
AECOM
10 Patewood Drive, Bldg 6
Suite 500
Greenville, SC 29615

RE: Project: AURIGA, SPARTANBURG SC
Pace Project No.: 92196006


Dear Bryon Dahlgren:

Enclosed are the analytical results for sample(s) received by the laboratory on April 03, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Aynsley Zollinger, AECOM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

Greenwood Certification IDs

816 Durst Avenue East, Greenwood, SC 29649
South Carolina Laboratory ID #: 24562
North Carolina Division of Water Resources Certification
number 25

Florida Certification number E87633
Virginia VELAP ID: 460250
Asbestos NVLAP accreditation: 101410-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92196006001	MW-120	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	72	PASI-C
		EPA 8260	CAH	53	PASI-C
		EPA 8260B Mod.	MCK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92196006002	RW-121	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	72	PASI-C
		EPA 8260	CAH	53	PASI-C
		EPA 8260B Mod.	MCK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92196006003	RW-129	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	CAH	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92196006005	MW-128	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	CAH	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92196006006	RW-133	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	CAH	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92196006007	RW-403	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	CAH	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92196006008	RW-123	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	CAH	53	PASI-C

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SAMPLE ANALYTE COUNT

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92196006009	MW-126	SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	CAH	53	PASI-C
92196006010	MW-122	SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	CAH	53	PASI-C
92196006011	RW-127	SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	CAH	53	PASI-C
92196006012	MW-124	SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	CAH	53	PASI-C
92196006013	MW-303	SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
		EPA 8260	CAH	53	PASI-C
		EPA 8260B Mod.	MCK	3	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: MW-120	Lab ID: 92196006001	Collected: 04/02/14 15:00	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 00:19	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 00:19	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 00:19	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 00:19	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		04/09/14 00:19	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	36.1 ug/L		5.0	1	04/11/14 16:13	04/12/14 00:30	7439-96-5	
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	83-32-9	
Acenaphthylene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	208-96-8	
Anthracene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	120-12-7	
Atrazine	ND ug/L		20.0	1	04/07/14 13:15	04/11/14 22:15	1912-24-9	
Benzaldehyde	ND ug/L		20.0	1	04/07/14 13:15	04/11/14 22:15	100-52-7	
Benzo(a)anthracene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	56-55-3	
Benzo(a)pyrene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	50-32-8	
Benzo(b)fluoranthene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	191-24-2	
Benzo(k)fluoranthene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	207-08-9	
Biphenyl (Diphenyl)	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	92-52-4	
4-Bromophenylphenyl ether	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	101-55-3	
Butylbenzylphthalate	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	85-68-7	
Caprolactam	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	105-60-2	
Carbazole	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	86-74-8	
4-Chloro-3-methylphenol	ND ug/L		20.0	1	04/07/14 13:15	04/11/14 22:15	59-50-7	
4-Chloroaniline	ND ug/L		20.0	1	04/07/14 13:15	04/11/14 22:15	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	108-60-1	
2-Chloronaphthalene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	91-58-7	
2-Chlorophenol	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	7005-72-3	
Chrysene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	53-70-3	
Dibenzofuran	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	132-64-9	
3,3'-Dichlorobenzidine	ND ug/L		20.0	1	04/07/14 13:15	04/11/14 22:15	91-94-1	
2,4-Dichlorophenol	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	120-83-2	
Diethylphthalate	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	84-66-2	
2,4-Dimethylphenol	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	105-67-9	
Dimethylphthalate	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	131-11-3	
Di-n-butylphthalate	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		20.0	1	04/07/14 13:15	04/11/14 22:15	534-52-1	
2,4-Dinitrophenol	ND ug/L		50.0	1	04/07/14 13:15	04/11/14 22:15	51-28-5	
2,4-Dinitrotoluene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	121-14-2	
2,6-Dinitrotoluene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	606-20-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: MW-120	Lab ID: 92196006001	Collected: 04/02/14 15:00	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Di-n-octylphthalate	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	117-84-0	
Diphenyl ether (Phenyl ether)	ND ug/L		20.0	1	04/07/14 13:15	04/11/14 22:15	101-84-8	
bis(2-Ethylhexyl)phthalate	ND ug/L		6.0	1	04/07/14 13:15	04/11/14 22:15	117-81-7	
Fluoranthene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	206-44-0	
Fluorene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	87-68-3	
Hexachlorobenzene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	77-47-4	
Hexachloroethane	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	193-39-5	
Isophorone	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	78-59-1	
2-Methylnaphthalene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15		
Naphthalene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	91-20-3	
2-Nitroaniline	ND ug/L		50.0	1	04/07/14 13:15	04/11/14 22:15	88-74-4	
3-Nitroaniline	ND ug/L		50.0	1	04/07/14 13:15	04/11/14 22:15	99-09-2	
4-Nitroaniline	ND ug/L		20.0	1	04/07/14 13:15	04/11/14 22:15	100-01-6	
Nitrobenzene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	98-95-3	
2-Nitrophenol	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	88-75-5	
4-Nitrophenol	ND ug/L		50.0	1	04/07/14 13:15	04/11/14 22:15	100-02-7	
N-Nitroso-di-n-propylamine	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	86-30-6	
Pentachlorophenol	ND ug/L		25.0	1	04/07/14 13:15	04/11/14 22:15	87-86-5	
Phenanthrene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	85-01-8	
Phenol	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	108-95-2	
Pyrene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	95-94-3	
2,4,5-Trichlorophenol	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 22:15	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	49 %		21-110	1	04/07/14 13:15	04/11/14 22:15	4165-60-0	
2-Fluorobiphenyl (S)	45 %		27-110	1	04/07/14 13:15	04/11/14 22:15	321-60-8	
Terphenyl-d14 (S)	63 %		31-107	1	04/07/14 13:15	04/11/14 22:15	1718-51-0	
Phenol-d6 (S)	17 %		10-110	1	04/07/14 13:15	04/11/14 22:15	13127-88-3	
2-Fluorophenol (S)	25 %		12-110	1	04/07/14 13:15	04/11/14 22:15	367-12-4	
2,4,6-Tribromophenol (S)	73 %		27-110	1	04/07/14 13:15	04/11/14 22:15	118-79-6	
8260 MSV								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		04/08/14 03:29	67-64-1	
Benzene	ND ug/L		5.0	1		04/08/14 03:29	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/08/14 03:29	75-27-4	M1
Bromoform	ND ug/L		5.0	1		04/08/14 03:29	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/08/14 03:29	74-83-9	R1
2-Butanone (MEK)	ND ug/L		10.0	1		04/08/14 03:29	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/08/14 03:29	75-15-0	M1
Carbon tetrachloride	ND ug/L		5.0	1		04/08/14 03:29	56-23-5	M1

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: MW-120	Lab ID: 92196006001	Collected: 04/02/14 15:00	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Chlorobenzene	ND	ug/L	5.0	1		04/08/14 03:29	108-90-7	
Chloroethane	ND	ug/L	10.0	1		04/08/14 03:29	75-00-3	
Chloroform	149	ug/L	5.0	1		04/08/14 03:29	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/08/14 03:29	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		04/08/14 03:29	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		04/08/14 03:29	96-12-8	M1
Dibromochloromethane	ND	ug/L	5.0	1		04/08/14 03:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/08/14 03:29	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/08/14 03:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/08/14 03:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/08/14 03:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/08/14 03:29	75-71-8	M1
1,1-Dichloroethane	ND	ug/L	5.0	1		04/08/14 03:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/08/14 03:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/08/14 03:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/08/14 03:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/08/14 03:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/08/14 03:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/14 03:29	10061-01-5	M1
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/14 03:29	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/08/14 03:29	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/08/14 03:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/08/14 03:29	98-82-8	M1
Methyl acetate	ND	ug/L	10.0	1		04/08/14 03:29	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		04/08/14 03:29	108-87-2	M1
Methylene Chloride	ND	ug/L	5.0	1		04/08/14 03:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/08/14 03:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		04/08/14 03:29	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/08/14 03:29	100-42-5	M1
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/14 03:29	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/14 03:29	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/14 03:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/08/14 03:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/08/14 03:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/14 03:29	71-55-6	M1
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/14 03:29	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/08/14 03:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/08/14 03:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/08/14 03:29	76-13-1	M1
Vinyl acetate	ND	ug/L	10.0	1		04/08/14 03:29	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/08/14 03:29	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/08/14 03:29	1330-20-7	MS
Surrogates								
4-Bromofluorobenzene (S)	96 %		70-130	1		04/08/14 03:29	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		04/08/14 03:29	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		04/08/14 03:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: MW-120		Lab ID: 92196006001	Collected: 04/02/14 15:00	Received: 04/03/14 16:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	2.3 ug/L		2.0	1		04/08/14 18:53	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	100 %		50-150	1		04/08/14 18:53	17060-07-0	
Toluene-d8 (S)	96 %		50-150	1		04/08/14 18:53	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	14.8 mg/L		5.0	1		04/15/14 10:50		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	2.8 mg/L		1.0	1		04/16/14 17:12	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: RW-121	Lab ID: 92196006002	Collected: 04/02/14 17:10	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	2.7 mg/L		1.0	1		04/09/14 01:50	7440-44-0	
Total Organic Carbon	2.5 mg/L		1.0	1		04/09/14 01:50	7440-44-0	
Total Organic Carbon	2.5 mg/L		1.0	1		04/09/14 01:50	7440-44-0	
Total Organic Carbon	2.5 mg/L		1.0	1		04/09/14 01:50	7440-44-0	
Mean Total Organic Carbon	2.5 mg/L		1.0	1		04/09/14 01:50	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	ND ug/L		5.0	1	04/11/14 16:13	04/12/14 00:39	7439-96-5	
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	83-32-9	
Acenaphthylene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	208-96-8	
Anthracene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	120-12-7	
Atrazine	ND ug/L		20.0	1	04/07/14 13:15	04/11/14 23:56	1912-24-9	
Benzaldehyde	ND ug/L		20.0	1	04/07/14 13:15	04/11/14 23:56	100-52-7	
Benzo(a)anthracene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	56-55-3	
Benzo(a)pyrene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	50-32-8	
Benzo(b)fluoranthene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	191-24-2	
Benzo(k)fluoranthene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	207-08-9	
Biphenyl (Diphenyl)	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	92-52-4	
4-Bromophenylphenyl ether	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	101-55-3	
Butylbenzylphthalate	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	85-68-7	
Caprolactam	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	105-60-2	
Carbazole	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	86-74-8	
4-Chloro-3-methylphenol	ND ug/L		20.0	1	04/07/14 13:15	04/11/14 23:56	59-50-7	
4-Chloroaniline	ND ug/L		20.0	1	04/07/14 13:15	04/11/14 23:56	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	108-60-1	
2-Chloronaphthalene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	91-58-7	
2-Chlorophenol	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	7005-72-3	
Chrysene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	53-70-3	
Dibenzofuran	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	132-64-9	
3,3'-Dichlorobenzidine	ND ug/L		20.0	1	04/07/14 13:15	04/11/14 23:56	91-94-1	
2,4-Dichlorophenol	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	120-83-2	
Diethylphthalate	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	84-66-2	
2,4-Dimethylphenol	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	105-67-9	
Dimethylphthalate	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	131-11-3	
Di-n-butylphthalate	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		20.0	1	04/07/14 13:15	04/11/14 23:56	534-52-1	
2,4-Dinitrophenol	ND ug/L		50.0	1	04/07/14 13:15	04/11/14 23:56	51-28-5	
2,4-Dinitrotoluene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	121-14-2	
2,6-Dinitrotoluene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	606-20-2	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: RW-121	Lab ID: 92196006002	Collected: 04/02/14 17:10	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Di-n-octylphthalate	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	117-84-0	
Diphenyl ether (Phenyl ether)	ND ug/L		20.0	1	04/07/14 13:15	04/11/14 23:56	101-84-8	
bis(2-Ethylhexyl)phthalate	ND ug/L		6.0	1	04/07/14 13:15	04/11/14 23:56	117-81-7	
Fluoranthene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	206-44-0	
Fluorene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	87-68-3	
Hexachlorobenzene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	77-47-4	
Hexachloroethane	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	193-39-5	
Isophorone	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	78-59-1	
2-Methylnaphthalene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56		
Naphthalene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	91-20-3	
2-Nitroaniline	ND ug/L		50.0	1	04/07/14 13:15	04/11/14 23:56	88-74-4	
3-Nitroaniline	ND ug/L		50.0	1	04/07/14 13:15	04/11/14 23:56	99-09-2	
4-Nitroaniline	ND ug/L		20.0	1	04/07/14 13:15	04/11/14 23:56	100-01-6	
Nitrobenzene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	98-95-3	
2-Nitrophenol	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	88-75-5	
4-Nitrophenol	ND ug/L		50.0	1	04/07/14 13:15	04/11/14 23:56	100-02-7	
N-Nitroso-di-n-propylamine	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	86-30-6	
Pentachlorophenol	ND ug/L		25.0	1	04/07/14 13:15	04/11/14 23:56	87-86-5	
Phenanthrene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	85-01-8	
Phenol	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	108-95-2	
Pyrene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	95-94-3	
2,4,5-Trichlorophenol	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		10.0	1	04/07/14 13:15	04/11/14 23:56	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	66 %		21-110	1	04/07/14 13:15	04/11/14 23:56	4165-60-0	
2-Fluorobiphenyl (S)	62 %		27-110	1	04/07/14 13:15	04/11/14 23:56	321-60-8	
Terphenyl-d14 (S)	69 %		31-107	1	04/07/14 13:15	04/11/14 23:56	1718-51-0	
Phenol-d6 (S)	26 %		10-110	1	04/07/14 13:15	04/11/14 23:56	13127-88-3	
2-Fluorophenol (S)	34 %		12-110	1	04/07/14 13:15	04/11/14 23:56	367-12-4	
2,4,6-Tribromophenol (S)	85 %		27-110	1	04/07/14 13:15	04/11/14 23:56	118-79-6	
8260 MSV Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		04/08/14 03:45	67-64-1	
Benzene	ND ug/L		5.0	1		04/08/14 03:45	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/08/14 03:45	75-27-4	
Bromoform	ND ug/L		5.0	1		04/08/14 03:45	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/08/14 03:45	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/08/14 03:45	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/08/14 03:45	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/08/14 03:45	56-23-5	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: RW-121		Lab ID: 92196006002	Collected: 04/02/14 17:10	Received: 04/03/14 16:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Chlorobenzene	ND	ug/L	5.0	1		04/08/14 03:45	108-90-7	
Chloroethane	ND	ug/L	10.0	1		04/08/14 03:45	75-00-3	
Chloroform	115	ug/L	5.0	1		04/08/14 03:45	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/08/14 03:45	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		04/08/14 03:45	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		04/08/14 03:45	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/08/14 03:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/08/14 03:45	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/08/14 03:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/08/14 03:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/08/14 03:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/08/14 03:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/08/14 03:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/08/14 03:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/08/14 03:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/08/14 03:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/08/14 03:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/08/14 03:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/14 03:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/14 03:45	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/08/14 03:45	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/08/14 03:45	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/08/14 03:45	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		04/08/14 03:45	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		04/08/14 03:45	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		04/08/14 03:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/08/14 03:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		04/08/14 03:45	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/08/14 03:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/14 03:45	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/14 03:45	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/14 03:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/08/14 03:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/08/14 03:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/14 03:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/14 03:45	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/08/14 03:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/08/14 03:45	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/08/14 03:45	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		04/08/14 03:45	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/08/14 03:45	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/08/14 03:45	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99 %		70-130	1		04/08/14 03:45	460-00-4	
1,2-Dichloroethane-d4 (S)	102 %		70-130	1		04/08/14 03:45	17060-07-0	
Toluene-d8 (S)	97 %		70-130	1		04/08/14 03:45	2037-26-5	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: RW-121		Lab ID: 92196006002	Collected: 04/02/14 17:10	Received: 04/03/14 16:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	3.4	ug/L	2.0	1		04/08/14 19:14	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	105 %		50-150	1		04/08/14 19:14	17060-07-0	
Toluene-d8 (S)	95 %		50-150	1		04/08/14 19:14	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	68.8	mg/L	5.0	1		04/15/14 12:41		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	2.6	mg/L	1.0	1		04/16/14 17:14	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: RW-129		Lab ID: 92196006003	Collected: 04/02/14 15:30	Received: 04/03/14 16:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	1.0 mg/L		1.0	1		04/09/14 02:18	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 02:18	7440-44-0	
Total Organic Carbon	1.2 mg/L		1.0	1		04/09/14 02:18	7440-44-0	
Total Organic Carbon	1.1 mg/L		1.0	1		04/09/14 02:18	7440-44-0	
Mean Total Organic Carbon	1.1 mg/L		1.0	1		04/09/14 02:18	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	161 ug/L		5.0	1	04/11/14 16:13	04/12/14 00:42	7439-96-5	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/08/14 04:01	67-64-1	
Benzene	ND ug/L		5.0	1		04/08/14 04:01	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/08/14 04:01	75-27-4	
Bromoform	ND ug/L		5.0	1		04/08/14 04:01	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/08/14 04:01	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/08/14 04:01	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/08/14 04:01	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/08/14 04:01	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/08/14 04:01	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/08/14 04:01	75-00-3	
Chloroform	575 ug/L		25.0	5		04/09/14 13:39	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/08/14 04:01	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/08/14 04:01	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/08/14 04:01	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/08/14 04:01	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/08/14 04:01	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 04:01	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 04:01	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 04:01	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/08/14 04:01	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/08/14 04:01	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/08/14 04:01	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/08/14 04:01	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 04:01	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 04:01	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/08/14 04:01	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 04:01	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 04:01	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/08/14 04:01	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/08/14 04:01	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/08/14 04:01	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/08/14 04:01	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/08/14 04:01	108-87-2	
Methylene Chloride	14.1 ug/L		5.0	1		04/08/14 04:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/08/14 04:01	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/08/14 04:01	1634-04-4	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: RW-129	Lab ID: 92196006003	Collected: 04/02/14 15:30	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Styrene	ND ug/L		5.0	1		04/08/14 04:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		04/08/14 04:01	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		04/08/14 04:01	127-18-4	
Toluene	ND ug/L		5.0	1		04/08/14 04:01	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		04/08/14 04:01	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		04/08/14 04:01	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		04/08/14 04:01	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		04/08/14 04:01	79-00-5	
Trichloroethene	ND ug/L		5.0	1		04/08/14 04:01	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		04/08/14 04:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		04/08/14 04:01	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		04/08/14 04:01	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		04/08/14 04:01	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		04/08/14 04:01	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100 %		70-130	1		04/08/14 04:01	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %		70-130	1		04/08/14 04:01	17060-07-0	
Toluene-d8 (S)	98 %		70-130	1		04/08/14 04:01	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	242 mg/L		5.0	1		04/15/14 12:51		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	13.2 mg/L		1.0	1		04/16/14 17:15	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: MW-128	Lab ID: 92196006005	Collected: 04/02/14 17:23	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 02:46	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 02:46	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 02:46	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 02:46	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		04/09/14 02:46	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	20.8 ug/L		5.0	1	04/11/14 16:13	04/12/14 00:45	7439-96-5	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/08/14 04:16	67-64-1	
Benzene	ND ug/L		5.0	1		04/08/14 04:16	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/08/14 04:16	75-27-4	
Bromoform	ND ug/L		5.0	1		04/08/14 04:16	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/08/14 04:16	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/08/14 04:16	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/08/14 04:16	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/08/14 04:16	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/08/14 04:16	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/08/14 04:16	75-00-3	
Chloroform	7.7 ug/L		5.0	1		04/08/14 04:16	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/08/14 04:16	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/08/14 04:16	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/08/14 04:16	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/08/14 04:16	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/08/14 04:16	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 04:16	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 04:16	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 04:16	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/08/14 04:16	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/08/14 04:16	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/08/14 04:16	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/08/14 04:16	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 04:16	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 04:16	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/08/14 04:16	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 04:16	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 04:16	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/08/14 04:16	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/08/14 04:16	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/08/14 04:16	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/08/14 04:16	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/08/14 04:16	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/08/14 04:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/08/14 04:16	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/08/14 04:16	1634-04-4	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: MW-128	Lab ID: 92196006005	Collected: 04/02/14 17:23	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Styrene	ND ug/L		5.0	1		04/08/14 04:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		04/08/14 04:16	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		04/08/14 04:16	127-18-4	
Toluene	ND ug/L		5.0	1		04/08/14 04:16	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		04/08/14 04:16	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		04/08/14 04:16	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		04/08/14 04:16	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		04/08/14 04:16	79-00-5	
Trichloroethene	ND ug/L		5.0	1		04/08/14 04:16	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		04/08/14 04:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		04/08/14 04:16	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		04/08/14 04:16	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		04/08/14 04:16	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		04/08/14 04:16	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98 %		70-130	1		04/08/14 04:16	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	1		04/08/14 04:16	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		04/08/14 04:16	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	ND mg/L		5.0	1		04/15/14 13:23		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	1.5 mg/L		1.0	1		04/16/14 17:17	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: RW-133		Lab ID: 92196006006	Collected: 04/02/14 17:45	Received: 04/03/14 16:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	1.1 mg/L		1.0	1		04/09/14 04:51	7440-44-0	
Total Organic Carbon	1.0 mg/L		1.0	1		04/09/14 04:51	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 04:51	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 04:51	7440-44-0	
Mean Total Organic Carbon	1.0 mg/L		1.0	1		04/09/14 04:51	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	140 ug/L		5.0	1	04/11/14 16:13	04/12/14 00:49	7439-96-5	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/08/14 04:32	67-64-1	
Benzene	ND ug/L		5.0	1		04/08/14 04:32	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/08/14 04:32	75-27-4	
Bromoform	ND ug/L		5.0	1		04/08/14 04:32	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/08/14 04:32	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/08/14 04:32	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/08/14 04:32	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/08/14 04:32	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/08/14 04:32	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/08/14 04:32	75-00-3	
Chloroform	49.2 ug/L		5.0	1		04/08/14 04:32	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/08/14 04:32	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/08/14 04:32	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/08/14 04:32	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/08/14 04:32	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/08/14 04:32	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 04:32	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 04:32	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 04:32	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/08/14 04:32	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/08/14 04:32	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/08/14 04:32	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/08/14 04:32	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 04:32	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 04:32	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/08/14 04:32	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 04:32	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 04:32	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/08/14 04:32	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/08/14 04:32	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/08/14 04:32	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/08/14 04:32	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/08/14 04:32	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/08/14 04:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/08/14 04:32	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/08/14 04:32	1634-04-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: RW-133		Lab ID: 92196006006	Collected: 04/02/14 17:45	Received: 04/03/14 16:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Styrene	ND	ug/L	5.0	1		04/08/14 04:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/14 04:32	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/14 04:32	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/14 04:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/08/14 04:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/08/14 04:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/14 04:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/14 04:32	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/08/14 04:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/08/14 04:32	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/08/14 04:32	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		04/08/14 04:32	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/08/14 04:32	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/08/14 04:32	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101 %		70-130	1		04/08/14 04:32	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		04/08/14 04:32	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		04/08/14 04:32	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	127	mg/L	5.0	1		04/15/14 13:53		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	4.9	mg/L	1.0	1		04/16/14 17:18	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: RW-403	Lab ID: 92196006007	Collected: 04/03/14 08:00	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	1.1 mg/L		1.0	1		04/09/14 06:21	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 06:21	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 06:21	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 06:21	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		04/09/14 06:21	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	12.8 ug/L		5.0	1	04/11/14 16:13	04/12/14 01:01	7439-96-5	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/08/14 22:49	67-64-1	
Benzene	ND ug/L		5.0	1		04/08/14 22:49	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/08/14 22:49	75-27-4	
Bromoform	ND ug/L		5.0	1		04/08/14 22:49	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/08/14 22:49	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/08/14 22:49	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/08/14 22:49	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/08/14 22:49	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/08/14 22:49	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/08/14 22:49	75-00-3	
Chloroform	22.4 ug/L		5.0	1		04/08/14 22:49	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/08/14 22:49	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/08/14 22:49	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/08/14 22:49	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/08/14 22:49	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/08/14 22:49	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 22:49	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 22:49	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 22:49	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/08/14 22:49	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/08/14 22:49	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/08/14 22:49	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/08/14 22:49	75-35-4	
cis-1,2-Dichloroethene	7.4 ug/L		5.0	1		04/08/14 22:49	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 22:49	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/08/14 22:49	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 22:49	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 22:49	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/08/14 22:49	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/08/14 22:49	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/08/14 22:49	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/08/14 22:49	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/08/14 22:49	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/08/14 22:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/08/14 22:49	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/08/14 22:49	1634-04-4	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: RW-403		Lab ID: 92196006007	Collected: 04/03/14 08:00	Received: 04/03/14 16:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Styrene	ND	ug/L	5.0	1		04/08/14 22:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/14 22:49	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/14 22:49	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/14 22:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/08/14 22:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/08/14 22:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/14 22:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/14 22:49	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/08/14 22:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/08/14 22:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/08/14 22:49	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		04/08/14 22:49	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/08/14 22:49	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/08/14 22:49	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100 %		70-130	1		04/08/14 22:49	460-00-4	
1,2-Dichloroethane-d4 (S)	96 %		70-130	1		04/08/14 22:49	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		04/08/14 22:49	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	85.8	mg/L	5.0	1		04/15/14 14:04		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	2.7	mg/L	1.0	1		04/16/14 17:18	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: RW-123	Lab ID: 92196006008	Collected: 04/03/14 08:43	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 06:49	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 06:49	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 06:49	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 06:49	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		04/09/14 06:49	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	12.9 ug/L		5.0	1	04/11/14 16:14	04/12/14 01:13	7439-96-5	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/08/14 23:05	67-64-1	
Benzene	ND ug/L		5.0	1		04/08/14 23:05	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/08/14 23:05	75-27-4	
Bromoform	ND ug/L		5.0	1		04/08/14 23:05	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/08/14 23:05	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/08/14 23:05	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/08/14 23:05	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/08/14 23:05	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/08/14 23:05	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/08/14 23:05	75-00-3	
Chloroform	23.5 ug/L		5.0	1		04/08/14 23:05	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/08/14 23:05	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/08/14 23:05	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/08/14 23:05	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/08/14 23:05	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/08/14 23:05	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 23:05	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 23:05	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 23:05	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/08/14 23:05	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/08/14 23:05	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/08/14 23:05	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/08/14 23:05	75-35-4	
cis-1,2-Dichloroethene	7.9 ug/L		5.0	1		04/08/14 23:05	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 23:05	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/08/14 23:05	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 23:05	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 23:05	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/08/14 23:05	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/08/14 23:05	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/08/14 23:05	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/08/14 23:05	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/08/14 23:05	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/08/14 23:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/08/14 23:05	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/08/14 23:05	1634-04-4	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: RW-123		Lab ID: 92196006008	Collected: 04/03/14 08:43	Received: 04/03/14 16:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Styrene	ND	ug/L	5.0	1		04/08/14 23:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/14 23:05	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/14 23:05	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/14 23:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/08/14 23:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/08/14 23:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/14 23:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/14 23:05	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/08/14 23:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/08/14 23:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/08/14 23:05	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		04/08/14 23:05	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/08/14 23:05	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/08/14 23:05	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101 %		70-130	1		04/08/14 23:05	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	1		04/08/14 23:05	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		04/08/14 23:05	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	85.5	mg/L	5.0	1		04/15/14 14:14		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	2.8	mg/L	1.0	1		04/16/14 17:19	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: MW-126	Lab ID: 92196006009	Collected: 04/03/14 08:55	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 07:17	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 07:17	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 07:17	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 07:17	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		04/09/14 07:17	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	182 ug/L		5.0	1	04/11/14 16:14	04/12/14 01:22	7439-96-5	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/09/14 02:44	67-64-1	
Benzene	ND ug/L		5.0	1		04/09/14 02:44	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/09/14 02:44	75-27-4	
Bromoform	ND ug/L		5.0	1		04/09/14 02:44	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/09/14 02:44	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/09/14 02:44	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/09/14 02:44	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/09/14 02:44	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/09/14 02:44	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/09/14 02:44	75-00-3	
Chloroform	2000 ug/L		100	20		04/10/14 03:58	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/09/14 02:44	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/09/14 02:44	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/09/14 02:44	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/09/14 02:44	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/09/14 02:44	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/09/14 02:44	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/09/14 02:44	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/09/14 02:44	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/09/14 02:44	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/09/14 02:44	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/09/14 02:44	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/09/14 02:44	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		04/09/14 02:44	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/09/14 02:44	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/09/14 02:44	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/09/14 02:44	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/09/14 02:44	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/09/14 02:44	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/09/14 02:44	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/09/14 02:44	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/09/14 02:44	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/09/14 02:44	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/09/14 02:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/09/14 02:44	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/09/14 02:44	1634-04-4	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: MW-126	Lab ID: 92196006009	Collected: 04/03/14 08:55	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Styrene	ND	ug/L	5.0	1		04/09/14 02:44	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/14 02:44	79-34-5	
Tetrachloroethene	5.4	ug/L	5.0	1		04/09/14 02:44	127-18-4	
Toluene	ND	ug/L	5.0	1		04/09/14 02:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/09/14 02:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/09/14 02:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/09/14 02:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/09/14 02:44	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/09/14 02:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/09/14 02:44	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/09/14 02:44	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		04/09/14 02:44	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/09/14 02:44	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/09/14 02:44	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100 %		70-130	1		04/09/14 02:44	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	1		04/09/14 02:44	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		04/09/14 02:44	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	7.9	mg/L	5.0	1		04/15/14 14:24		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	13.9	mg/L	1.0	1		04/16/14 17:20	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: MW-122	Lab ID: 92196006010	Collected: 04/03/14 10:07	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 07:45	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 07:45	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 07:45	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 07:45	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		04/09/14 07:45	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	109 ug/L		5.0	1	04/11/14 16:14	04/12/14 01:25	7439-96-5	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/09/14 02:59	67-64-1	
Benzene	ND ug/L		5.0	1		04/09/14 02:59	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/09/14 02:59	75-27-4	
Bromoform	ND ug/L		5.0	1		04/09/14 02:59	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/09/14 02:59	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/09/14 02:59	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/09/14 02:59	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/09/14 02:59	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/09/14 02:59	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/09/14 02:59	75-00-3	
Chloroform	30.8 ug/L		5.0	1		04/09/14 02:59	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/09/14 02:59	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/09/14 02:59	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/09/14 02:59	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/09/14 02:59	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/09/14 02:59	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/09/14 02:59	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/09/14 02:59	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/09/14 02:59	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/09/14 02:59	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/09/14 02:59	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/09/14 02:59	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/09/14 02:59	75-35-4	
cis-1,2-Dichloroethene	18.3 ug/L		5.0	1		04/09/14 02:59	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/09/14 02:59	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/09/14 02:59	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/09/14 02:59	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/09/14 02:59	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/09/14 02:59	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/09/14 02:59	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/09/14 02:59	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/09/14 02:59	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/09/14 02:59	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/09/14 02:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/09/14 02:59	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/09/14 02:59	1634-04-4	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: MW-122	Lab ID: 92196006010	Collected: 04/03/14 10:07	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Styrene	ND ug/L		5.0	1		04/09/14 02:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		04/09/14 02:59	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		04/09/14 02:59	127-18-4	
Toluene	ND ug/L		5.0	1		04/09/14 02:59	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		04/09/14 02:59	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		04/09/14 02:59	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		04/09/14 02:59	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		04/09/14 02:59	79-00-5	
Trichloroethene	ND ug/L		5.0	1		04/09/14 02:59	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		04/09/14 02:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		04/09/14 02:59	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		04/09/14 02:59	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		04/09/14 02:59	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		04/09/14 02:59	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100 %		70-130	1		04/09/14 02:59	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	1		04/09/14 02:59	17060-07-0	
Toluene-d8 (S)	101 %		70-130	1		04/09/14 02:59	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	15.8 mg/L		5.0	1		04/15/14 14:33		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	3.3 mg/L		1.0	1		04/16/14 17:21	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: RW-127	Lab ID: 92196006011	Collected: 04/03/14 10:15	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 08:13	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 08:13	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 08:13	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 08:13	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		04/09/14 08:13	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	64.7 ug/L		5.0	1	04/11/14 16:14	04/12/14 01:29	7439-96-5	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/09/14 03:15	67-64-1	
Benzene	ND ug/L		5.0	1		04/09/14 03:15	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/09/14 03:15	75-27-4	
Bromoform	ND ug/L		5.0	1		04/09/14 03:15	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/09/14 03:15	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/09/14 03:15	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/09/14 03:15	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/09/14 03:15	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/09/14 03:15	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/09/14 03:15	75-00-3	
Chloroform	1060 ug/L		50.0	10		04/10/14 04:15	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/09/14 03:15	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/09/14 03:15	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/09/14 03:15	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/09/14 03:15	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/09/14 03:15	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/09/14 03:15	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/09/14 03:15	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/09/14 03:15	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/09/14 03:15	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/09/14 03:15	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/09/14 03:15	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/09/14 03:15	75-35-4	
cis-1,2-Dichloroethene	8.6 ug/L		5.0	1		04/09/14 03:15	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/09/14 03:15	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/09/14 03:15	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/09/14 03:15	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/09/14 03:15	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/09/14 03:15	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/09/14 03:15	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/09/14 03:15	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/09/14 03:15	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/09/14 03:15	108-87-2	
Methylene Chloride	18.9 ug/L		5.0	1		04/09/14 03:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/09/14 03:15	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/09/14 03:15	1634-04-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: RW-127	Lab ID: 92196006011	Collected: 04/03/14 10:15	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Styrene	ND ug/L		5.0	1		04/09/14 03:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		04/09/14 03:15	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		04/09/14 03:15	127-18-4	
Toluene	ND ug/L		5.0	1		04/09/14 03:15	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		04/09/14 03:15	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		04/09/14 03:15	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		04/09/14 03:15	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		04/09/14 03:15	79-00-5	
Trichloroethene	ND ug/L		5.0	1		04/09/14 03:15	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		04/09/14 03:15	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		04/09/14 03:15	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		04/09/14 03:15	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		04/09/14 03:15	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		04/09/14 03:15	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98 %		70-130	1		04/09/14 03:15	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		04/09/14 03:15	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		04/09/14 03:15	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	85.8 mg/L		5.0	1		04/15/14 14:42		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	11.6 mg/L		1.0	1		04/16/14 17:21	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: MW-124	Lab ID: 92196006012	Collected: 04/03/14 11:25	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 08:41	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 08:41	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 08:41	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/09/14 08:41	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		04/09/14 08:41	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	51.1 ug/L		5.0	1	04/11/14 16:14	04/12/14 01:41	7439-96-5	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/09/14 03:31	67-64-1	
Benzene	ND ug/L		5.0	1		04/09/14 03:31	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/09/14 03:31	75-27-4	
Bromoform	ND ug/L		5.0	1		04/09/14 03:31	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/09/14 03:31	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/09/14 03:31	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/09/14 03:31	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/09/14 03:31	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/09/14 03:31	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/09/14 03:31	75-00-3	
Chloroform	798 ug/L		50.0	10		04/10/14 04:31	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/09/14 03:31	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/09/14 03:31	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/09/14 03:31	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/09/14 03:31	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/09/14 03:31	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/09/14 03:31	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/09/14 03:31	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/09/14 03:31	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/09/14 03:31	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/09/14 03:31	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/09/14 03:31	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/09/14 03:31	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		04/09/14 03:31	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/09/14 03:31	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/09/14 03:31	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/09/14 03:31	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/09/14 03:31	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/09/14 03:31	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/09/14 03:31	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/09/14 03:31	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/09/14 03:31	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/09/14 03:31	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/09/14 03:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/09/14 03:31	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/09/14 03:31	1634-04-4	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC
Pace Project No.: 92196006

Sample: MW-124	Lab ID: 92196006012	Collected: 04/03/14 11:25	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Styrene	ND	ug/L	5.0	1		04/09/14 03:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/14 03:31	79-34-5	
Tetrachloroethene	6.7	ug/L	5.0	1		04/09/14 03:31	127-18-4	
Toluene	ND	ug/L	5.0	1		04/09/14 03:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/09/14 03:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/09/14 03:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/09/14 03:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/09/14 03:31	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/09/14 03:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/09/14 03:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/09/14 03:31	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		04/09/14 03:31	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/09/14 03:31	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/09/14 03:31	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100 %		70-130	1		04/09/14 03:31	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		04/09/14 03:31	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		04/09/14 03:31	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1		04/15/14 14:52		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	7.0	mg/L	1.0	1		04/16/14 17:22	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: MW-303	Lab ID: 92196006013	Collected: 04/02/14 13:30	Received: 04/03/14 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/08/14 04:47	67-64-1	
Benzene	ND ug/L		5.0	1		04/08/14 04:47	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/08/14 04:47	75-27-4	
Bromoform	ND ug/L		5.0	1		04/08/14 04:47	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/08/14 04:47	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/08/14 04:47	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/08/14 04:47	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/08/14 04:47	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/08/14 04:47	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/08/14 04:47	75-00-3	
Chloroform	ND ug/L		5.0	1		04/08/14 04:47	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/08/14 04:47	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/08/14 04:47	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/08/14 04:47	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/08/14 04:47	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/08/14 04:47	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 04:47	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 04:47	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 04:47	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/08/14 04:47	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/08/14 04:47	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/08/14 04:47	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/08/14 04:47	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 04:47	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 04:47	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/08/14 04:47	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 04:47	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 04:47	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/08/14 04:47	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/08/14 04:47	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/08/14 04:47	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/08/14 04:47	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/08/14 04:47	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/08/14 04:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/08/14 04:47	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/08/14 04:47	1634-04-4	
Styrene	ND ug/L		5.0	1		04/08/14 04:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		04/08/14 04:47	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		04/08/14 04:47	127-18-4	
Toluene	ND ug/L		5.0	1		04/08/14 04:47	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		04/08/14 04:47	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		04/08/14 04:47	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		04/08/14 04:47	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		04/08/14 04:47	79-00-5	
Trichloroethene	ND ug/L		5.0	1		04/08/14 04:47	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		04/08/14 04:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		04/08/14 04:47	76-13-1	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Sample: MW-303		Lab ID: 92196006013	Collected: 04/02/14 13:30	Received: 04/03/14 16:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND ug/L		10.0	1		04/08/14 04:47	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		04/08/14 04:47	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		04/08/14 04:47	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102 %		70-130	1		04/08/14 04:47	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		04/08/14 04:47	17060-07-0	
Toluene-d8 (S)	102 %		70-130	1		04/08/14 04:47	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		04/08/14 19:34	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	107 %		50-150	1		04/08/14 19:34	17060-07-0	
Toluene-d8 (S)	94 %		50-150	1		04/08/14 19:34	2037-26-5	

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

QC Batch: GWD/1158

Analysis Method: EPA 9060A

QC Batch Method: EPA 9060A

Analysis Description: 9060 TOC, GWD

Associated Lab Samples: 92196006001, 92196006002, 92196006003, 92196006005

METHOD BLANK: 1173372

Matrix: Water

Associated Lab Samples: 92196006001, 92196006002, 92196006003, 92196006005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	ND	1.0	04/08/14 21:02	
Total Organic Carbon	mg/L	ND	1.0	04/08/14 21:02	
Total Organic Carbon	mg/L	ND	1.0	04/08/14 21:02	
Total Organic Carbon	mg/L	ND	1.0	04/08/14 21:02	
Total Organic Carbon	mg/L	ND	1.0	04/08/14 21:02	

LABORATORY CONTROL SAMPLE: 1173373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	50	47.3	95	75-125	
Total Organic Carbon	mg/L	50	47.0	94	75-125	
Total Organic Carbon	mg/L	50	47.5	95	75-125	
Total Organic Carbon	mg/L	50	47.7	95	75-125	
Total Organic Carbon	mg/L	50	47.2	94	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1173493

1173494

Parameter	92196006001		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.							
Mean Total Organic Carbon	mg/L	ND	50	50	49.3	49.7	97	98	75-125	1	
Total Organic Carbon	mg/L	ND	50	50	49.2	49.8	97	98	75-125	1	
Total Organic Carbon	mg/L	ND	50	50	49.2	49.7	97	98	75-125	1	
Total Organic Carbon	mg/L	ND	50	50	48.8	49.8	96	98	75-125	2	
Total Organic Carbon	mg/L	ND	50	50	49.8	49.7	98	98	75-125	0	

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

QC Batch: MPRP/15659

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET Filtered

Associated Lab Samples: 92196006001, 92196006002, 92196006003, 92196006005, 92196006006, 92196006007

METHOD BLANK: 1176527

Matrix: Water

Associated Lab Samples: 92196006001, 92196006002, 92196006003, 92196006005, 92196006006, 92196006007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	5.0	04/11/14 23:16	

LABORATORY CONTROL SAMPLE: 1176528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	500	452	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1176529 1176530

Parameter	Units	92195574005		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Manganese, Dissolved	ug/L	67.5	500	500	483	475	83	82	75-125	2		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1176531 1176532

Parameter	Units	92196006001		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Manganese, Dissolved	ug/L	36.1	500	500	448	449	82	83	75-125	0		

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

QC Batch: MPRP/15660

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET Filtered

Associated Lab Samples: 92196006008, 92196006009, 92196006010, 92196006011, 92196006012

METHOD BLANK: 1176533

Matrix: Water

Associated Lab Samples: 92196006008, 92196006009, 92196006010, 92196006011, 92196006012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	5.0	04/12/14 01:07	

LABORATORY CONTROL SAMPLE: 1176534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	500	452	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1176535 1176536

Parameter	Units	92196006008		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Manganese, Dissolved	ug/L	12.9	500	500	435	421	84	82	75-125	3				

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

QC Batch: MSV/26342 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
 Associated Lab Samples: 92196006001, 92196006002, 92196006003, 92196006005, 92196006006, 92196006013

METHOD BLANK: 1172974 Matrix: Water
 Associated Lab Samples: 92196006001, 92196006002, 92196006003, 92196006005, 92196006006, 92196006013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/08/14 01:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/08/14 01:25	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/08/14 01:25	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	04/08/14 01:25	
1,1-Dichloroethane	ug/L	ND	5.0	04/08/14 01:25	
1,1-Dichloroethene	ug/L	ND	5.0	04/08/14 01:25	
1,2,3-Trichlorobenzene	ug/L	5.7	5.0	04/08/14 01:25	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/08/14 01:25	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	04/08/14 01:25	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	04/08/14 01:25	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/08/14 01:25	
1,2-Dichloroethane	ug/L	ND	5.0	04/08/14 01:25	
1,2-Dichloropropane	ug/L	ND	5.0	04/08/14 01:25	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/08/14 01:25	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/08/14 01:25	
2-Butanone (MEK)	ug/L	ND	10.0	04/08/14 01:25	
2-Hexanone	ug/L	ND	10.0	04/08/14 01:25	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/08/14 01:25	
Acetone	ug/L	ND	25.0	04/08/14 01:25	
Benzene	ug/L	ND	5.0	04/08/14 01:25	
Bromodichloromethane	ug/L	ND	5.0	04/08/14 01:25	
Bromoform	ug/L	ND	5.0	04/08/14 01:25	
Bromomethane	ug/L	ND	10.0	04/08/14 01:25	
Carbon disulfide	ug/L	ND	10.0	04/08/14 01:25	
Carbon tetrachloride	ug/L	ND	5.0	04/08/14 01:25	
Chlorobenzene	ug/L	ND	5.0	04/08/14 01:25	
Chloroethane	ug/L	ND	10.0	04/08/14 01:25	
Chloroform	ug/L	ND	5.0	04/08/14 01:25	
Chloromethane	ug/L	ND	5.0	04/08/14 01:25	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/08/14 01:25	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/08/14 01:25	
Cyclohexane	ug/L	ND	5.0	04/08/14 01:25	
Dibromochloromethane	ug/L	ND	5.0	04/08/14 01:25	
Dichlorodifluoromethane	ug/L	ND	5.0	04/08/14 01:25	
Ethylbenzene	ug/L	ND	5.0	04/08/14 01:25	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	04/08/14 01:25	
Methyl acetate	ug/L	ND	10.0	04/08/14 01:25	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/08/14 01:25	
Methylcyclohexane	ug/L	ND	10.0	04/08/14 01:25	
Methylene Chloride	ug/L	ND	5.0	04/08/14 01:25	
Styrene	ug/L	ND	5.0	04/08/14 01:25	
Tetrachloroethene	ug/L	ND	5.0	04/08/14 01:25	
Toluene	ug/L	ND	5.0	04/08/14 01:25	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

METHOD BLANK: 1172974

Matrix: Water

Associated Lab Samples: 92196006001, 92196006002, 92196006003, 92196006005, 92196006006, 92196006013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/08/14 01:25	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/08/14 01:25	
Trichloroethene	ug/L	ND	5.0	04/08/14 01:25	
Trichlorofluoromethane	ug/L	ND	10.0	04/08/14 01:25	
Vinyl acetate	ug/L	ND	10.0	04/08/14 01:25	
Vinyl chloride	ug/L	ND	5.0	04/08/14 01:25	
Xylene (Total)	ug/L	ND	10.0	04/08/14 01:25	
1,2-Dichloroethane-d4 (S)	%	101	70-130	04/08/14 01:25	
4-Bromofluorobenzene (S)	%	100	70-130	04/08/14 01:25	
Toluene-d8 (S)	%	100	70-130	04/08/14 01:25	

LABORATORY CONTROL SAMPLE: 1172975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.2	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	70-130	
1,1,2-Trichloroethane	ug/L	50	47.1	94	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	49.9	100	70-130	
1,1-Dichloroethane	ug/L	50	47.2	94	70-130	
1,1-Dichloroethene	ug/L	50	47.6	95	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.1	100	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.5	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	42.9	86	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.0	100	70-130	
1,2-Dichlorobenzene	ug/L	50	47.6	95	70-130	
1,2-Dichloroethane	ug/L	50	47.9	96	70-130	
1,2-Dichloropropane	ug/L	50	48.2	96	70-130	
1,3-Dichlorobenzene	ug/L	50	46.0	92	70-130	
1,4-Dichlorobenzene	ug/L	50	47.8	96	70-130	
2-Butanone (MEK)	ug/L	100	99.0	99	70-130	
2-Hexanone	ug/L	100	92.5	92	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.3	96	70-130	
Acetone	ug/L	100	92.0	92	70-130	
Benzene	ug/L	50	50.5	101	70-130	
Bromodichloromethane	ug/L	50	48.0	96	70-130	
Bromoform	ug/L	50	47.5	95	70-130	
Bromomethane	ug/L	50	45.3	91	70-130	
Carbon disulfide	ug/L	50	47.8	96	70-130	
Carbon tetrachloride	ug/L	50	49.9	100	70-130	
Chlorobenzene	ug/L	50	48.9	98	70-130	
Chloroethane	ug/L	50	46.6	93	70-130	
Chloroform	ug/L	50	47.3	95	70-130	
Chloromethane	ug/L	50	47.2	94	70-130	
cis-1,2-Dichloroethene	ug/L	50	47.1	94	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.1	96	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

LABORATORY CONTROL SAMPLE: 1172975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyclohexane	ug/L	50	48.6	97	70-130	
Dibromochloromethane	ug/L	50	49.0	98	70-130	
Dichlorodifluoromethane	ug/L	50	50.1	100	70-130	
Ethylbenzene	ug/L	50	48.7	97	70-130	
Isopropylbenzene (Cumene)	ug/L	50	51.2	102	70-130	
Methyl acetate	ug/L	50	47.9	96	70-130	
Methyl-tert-butyl ether	ug/L	50	49.9	100	70-130	
Methylcyclohexane	ug/L	50	50.4	101	70-130	
Methylene Chloride	ug/L	50	50.2	100	70-130	
Styrene	ug/L	50	50.5	101	70-130	
Tetrachloroethene	ug/L	50	48.9	98	70-130	
Toluene	ug/L	50	49.1	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.4	95	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.1	96	70-130	
Trichloroethene	ug/L	50	46.0	92	70-130	
Trichlorofluoromethane	ug/L	50	50.2	100	70-130	
Vinyl acetate	ug/L	100	96.5	97	70-130	
Vinyl chloride	ug/L	50	51.7	103	70-130	
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1174574 1174575

Parameter	Units	92196006001		MS	MSD	MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,1,1-Trichloroethane	ug/L	ND	50	50	52.4	67.0	105	134	70-130	24	M1	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	46.5	60.0	93	120	70-130	25		
1,1,2-Trichloroethane	ug/L	ND	50	50	49.2	62.4	98	125	70-130	24		
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	54.1	68.4	108	137	70-130	23	M1	
1,1-Dichloroethane	ug/L	ND	50	50	48.2	60.7	96	121	70-130	23		
1,1-Dichloroethene	ug/L	ND	50	50	50.9	63.7	102	127	70-130	22		
1,2,3-Trichlorobenzene	ug/L	ND	50	50	48.3	63.5	97	127	70-130	27		
1,2,4-Trichlorobenzene	ug/L	ND	50	50	48.0	62.3	96	125	70-130	26		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	ND	59.4	3	119	70-130		M1	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	49.8	63.2	100	126	70-130	24		
1,2-Dichlorobenzene	ug/L	ND	50	50	49.2	63.3	98	127	70-130	25		
1,2-Dichloroethane	ug/L	ND	50	50	47.5	61.8	95	124	70-130	26		
1,2-Dichloropropane	ug/L	ND	50	50	49.0	61.7	98	123	70-130	23		
1,3-Dichlorobenzene	ug/L	ND	50	50	48.4	62.5	97	125	70-130	26		
1,4-Dichlorobenzene	ug/L	ND	50	50	48.2	61.8	96	124	70-130	25		
2-Butanone (MEK)	ug/L	ND	100	100	92.0	115	92	115	70-130	22		
2-Hexanone	ug/L	ND	100	100	97.1	121	97	121	70-130	22		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	95.8	119	96	119	70-130	22		
Acetone	ug/L	ND	100	100	91.7	120	92	120	70-130	26		
Benzene	ug/L	ND	50	50	50.4	62.3	101	125	70-130	21		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Parameter	92196006001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec						
MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1174574														
Bromodichloromethane	ug/L	ND	50	50	52.5	67.0	105	134	70-130	24	M1			
Bromoform	ug/L	ND	50	50	44.4	58.4	89	117	70-130	27				
Bromomethane	ug/L	ND	50	50	39.6	57.9	79	116	70-130	38	R1			
Carbon disulfide	ug/L	ND	50	50	53.1	68.6	106	137	70-130	25	M1			
Carbon tetrachloride	ug/L	ND	50	50	54.3	68.8	109	138	70-130	23	M1			
Chlorobenzene	ug/L	ND	50	50	48.4	60.6	97	121	70-130	22				
Chloroethane	ug/L	ND	50	50	42.6	51.9	85	104	70-130	20				
Chloroform	ug/L	149	50	50	215	231	132	164	70-130	7	E			
Chloromethane	ug/L	ND	50	50	42.1	56.3	84	113	70-130	29				
cis-1,2-Dichloroethene	ug/L	ND	50	50	46.9	59.8	94	120	70-130	24				
cis-1,3-Dichloropropene	ug/L	ND	50	50	52.2	66.1	104	132	70-130	23	M1			
Cyclohexane	ug/L	ND	50	50	50.6	63.7	101	127	70-130	23				
Dibromochloromethane	ug/L	ND	50	50	46.7	59.4	93	119	70-130	24				
Dichlorodifluoromethane	ug/L	ND	50	50	55.7	70.0	111	140	70-130	23	M1			
Ethylbenzene	ug/L	ND	50	50	49.9	62.9	100	126	70-130	23				
Isopropylbenzene (Cumene)	ug/L	ND	50	50	52.4	66.4	105	133	70-130	24	M1			
Methyl acetate	ug/L	ND	50	50	42.2	52.7	84	105	70-130	22				
Methyl-tert-butyl ether	ug/L	ND	50	50	47.8	61.5	96	123	70-130	25				
Methylcyclohexane	ug/L	ND	50	50	52.0	65.4	104	131	70-130	23	M1			
Methylene Chloride	ug/L	ND	50	50	47.6	60.1	95	120	70-130	23				
Styrene	ug/L	ND	50	50	52.1	66.1	104	132	70-130	24	M1			
Tetrachloroethene	ug/L	ND	50	50	51.3	64.4	103	129	70-130	23				
Toluene	ug/L	ND	50	50	50.2	62.1	100	124	70-130	21				
trans-1,2-Dichloroethene	ug/L	ND	50	50	49.6	61.8	99	124	70-130	22				
trans-1,3-Dichloropropene	ug/L	ND	50	50	47.1	60.5	94	121	70-130	25				
Trichloroethene	ug/L	ND	50	50	50.2	62.0	100	124	70-130	21				
Trichlorofluoromethane	ug/L	ND	50	50	49.3	62.0	99	124	70-130	23				
Vinyl acetate	ug/L	ND	100	100	96.8	123	97	123	70-130	24				
Vinyl chloride	ug/L	ND	50	50	49.1	61.1	98	122	70-130	22				
1,2-Dichloroethane-d4 (S)	%						95	97	70-130					
4-Bromofluorobenzene (S)	%						102	102	70-130					
Toluene-d8 (S)	%						103	102	70-130					

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

QC Batch: MSV/26364 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
 Associated Lab Samples: 92196006007, 92196006008

METHOD BLANK: 1174058 Matrix: Water

Associated Lab Samples: 92196006007, 92196006008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/08/14 19:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/08/14 19:42	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/08/14 19:42	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	04/08/14 19:42	
1,1-Dichloroethane	ug/L	ND	5.0	04/08/14 19:42	
1,1-Dichloroethene	ug/L	ND	5.0	04/08/14 19:42	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	04/08/14 19:42	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/08/14 19:42	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	04/08/14 19:42	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	04/08/14 19:42	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/08/14 19:42	
1,2-Dichloroethane	ug/L	ND	5.0	04/08/14 19:42	
1,2-Dichloropropane	ug/L	ND	5.0	04/08/14 19:42	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/08/14 19:42	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/08/14 19:42	
2-Butanone (MEK)	ug/L	ND	10.0	04/08/14 19:42	
2-Hexanone	ug/L	ND	10.0	04/08/14 19:42	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/08/14 19:42	
Acetone	ug/L	ND	25.0	04/08/14 19:42	
Benzene	ug/L	ND	5.0	04/08/14 19:42	
Bromodichloromethane	ug/L	ND	5.0	04/08/14 19:42	
Bromoform	ug/L	ND	5.0	04/08/14 19:42	
Bromomethane	ug/L	ND	10.0	04/08/14 19:42	
Carbon disulfide	ug/L	ND	10.0	04/08/14 19:42	
Carbon tetrachloride	ug/L	ND	5.0	04/08/14 19:42	
Chlorobenzene	ug/L	ND	5.0	04/08/14 19:42	
Chloroethane	ug/L	ND	10.0	04/08/14 19:42	
Chloroform	ug/L	ND	5.0	04/08/14 19:42	
Chloromethane	ug/L	ND	5.0	04/08/14 19:42	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/08/14 19:42	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/08/14 19:42	
Cyclohexane	ug/L	ND	5.0	04/08/14 19:42	
Dibromochloromethane	ug/L	ND	5.0	04/08/14 19:42	
Dichlorodifluoromethane	ug/L	ND	5.0	04/08/14 19:42	
Ethylbenzene	ug/L	ND	5.0	04/08/14 19:42	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	04/08/14 19:42	
Methyl acetate	ug/L	ND	10.0	04/08/14 19:42	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/08/14 19:42	
Methylcyclohexane	ug/L	ND	10.0	04/08/14 19:42	
Methylene Chloride	ug/L	ND	5.0	04/08/14 19:42	
Styrene	ug/L	ND	5.0	04/08/14 19:42	
Tetrachloroethene	ug/L	ND	5.0	04/08/14 19:42	
Toluene	ug/L	ND	5.0	04/08/14 19:42	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

METHOD BLANK: 1174058

Matrix: Water

Associated Lab Samples: 92196006007, 92196006008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/08/14 19:42	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/08/14 19:42	
Trichloroethene	ug/L	ND	5.0	04/08/14 19:42	
Trichlorofluoromethane	ug/L	ND	10.0	04/08/14 19:42	
Vinyl acetate	ug/L	ND	10.0	04/08/14 19:42	
Vinyl chloride	ug/L	ND	5.0	04/08/14 19:42	
Xylene (Total)	ug/L	ND	10.0	04/08/14 19:42	
1,2-Dichloroethane-d4 (S)	%	100	70-130	04/08/14 19:42	
4-Bromofluorobenzene (S)	%	98	70-130	04/08/14 19:42	
Toluene-d8 (S)	%	100	70-130	04/08/14 19:42	

LABORATORY CONTROL SAMPLE: 1174059

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.3	107	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.8	104	70-130	
1,1,2-Trichloroethane	ug/L	50	54.0	108	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	54.4	109	70-130	
1,1-Dichloroethane	ug/L	50	52.4	105	70-130	
1,1-Dichloroethene	ug/L	50	51.8	104	70-130	
1,2,3-Trichlorobenzene	ug/L	50	53.7	107	70-130	
1,2,4-Trichlorobenzene	ug/L	50	52.3	105	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	50.8	102	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.3	105	70-130	
1,2-Dichlorobenzene	ug/L	50	52.6	105	70-130	
1,2-Dichloroethane	ug/L	50	53.1	106	70-130	
1,2-Dichloropropane	ug/L	50	54.1	108	70-130	
1,3-Dichlorobenzene	ug/L	50	51.2	102	70-130	
1,4-Dichlorobenzene	ug/L	50	53.0	106	70-130	
2-Butanone (MEK)	ug/L	100	105	105	70-130	
2-Hexanone	ug/L	100	100	100	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	70-130	
Acetone	ug/L	100	104	104	70-130	
Benzene	ug/L	50	55.1	110	70-130	
Bromodichloromethane	ug/L	50	51.4	103	70-130	
Bromoform	ug/L	50	53.0	106	70-130	
Bromomethane	ug/L	50	53.9	108	70-130	
Carbon disulfide	ug/L	50	52.6	105	70-130	
Carbon tetrachloride	ug/L	50	53.5	107	70-130	
Chlorobenzene	ug/L	50	53.6	107	70-130	
Chloroethane	ug/L	50	49.0	98	70-130	
Chloroform	ug/L	50	52.8	106	70-130	
Chloromethane	ug/L	50	51.1	102	70-130	
cis-1,2-Dichloroethene	ug/L	50	50.7	101	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.6	103	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

LABORATORY CONTROL SAMPLE: 1174059

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyclohexane	ug/L	50	53.4	107	70-130	
Dibromochloromethane	ug/L	50	51.9	104	70-130	
Dichlorodifluoromethane	ug/L	50	52.4	105	70-130	
Ethylbenzene	ug/L	50	51.7	103	70-130	
Isopropylbenzene (Cumene)	ug/L	50	54.9	110	70-130	
Methyl acetate	ug/L	50	52.1	104	70-130	
Methyl-tert-butyl ether	ug/L	50	54.4	109	70-130	
Methylcyclohexane	ug/L	50	52.7	105	70-130	
Methylene Chloride	ug/L	50	54.1	108	70-130	
Styrene	ug/L	50	54.2	108	70-130	
Tetrachloroethene	ug/L	50	53.8	108	70-130	
Toluene	ug/L	50	53.4	107	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.1	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.1	106	70-130	
Trichloroethene	ug/L	50	52.8	106	70-130	
Trichlorofluoromethane	ug/L	50	51.6	103	70-130	
Vinyl acetate	ug/L	100	101	101	70-130	
Vinyl chloride	ug/L	50	53.9	108	70-130	
Xylene (Total)	ug/L	150	160	107	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1174832 1174833

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92196170017 Result	Spike Conc.	Spike Conc.	MS Result					
1,1,1-Trichloroethane	ug/L	ND	50	50	67.7	63.4	135	127	70-130	7 M0
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	55.0	50.9	110	102	70-130	8
1,1,2-Trichloroethane	ug/L	ND	50	50	58.7	55.8	117	112	70-130	5
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	65.4	61.6	131	123	70-130	6 M0
1,1-Dichloroethane	ug/L	ND	50	50	57.0	53.4	114	107	70-130	6
1,1-Dichloroethene	ug/L	ND	50	50	61.0	58.0	122	116	70-130	5
1,2,3-Trichlorobenzene	ug/L	ND	50	50	57.0	52.4	114	105	70-130	8
1,2,4-Trichlorobenzene	ug/L	ND	50	50	56.5	51.8	113	104	70-130	9
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	62.3	56.5	125	113	70-130	10
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	60.6	56.2	121	112	70-130	7
1,2-Dichlorobenzene	ug/L	ND	50	50	58.7	54.7	117	109	70-130	7
1,2-Dichloroethane	ug/L	ND	50	50	62.1	57.5	124	115	70-130	8
1,2-Dichloropropane	ug/L	ND	50	50	54.8	52.1	110	104	70-130	5
1,3-Dichlorobenzene	ug/L	ND	50	50	57.7	54.4	115	109	70-130	6
1,4-Dichlorobenzene	ug/L	ND	50	50	56.0	53.6	112	107	70-130	4
2-Butanone (MEK)	ug/L	ND	100	100	117	101	117	101	70-130	14
2-Hexanone	ug/L	ND	100	100	122	108	122	108	70-130	12
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	118	106	118	106	70-130	11
Acetone	ug/L	ND	100	100	154	124	148	117	70-130	22 M0
Benzene	ug/L	ND	50	50	57.7	53.8	115	108	70-130	7

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Parameter	92196170017		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec						
Bromodichloromethane	ug/L	ND	50	50	66.3	62.5	133	125	70-130	6	M0			
Bromoform	ug/L	ND	50	50	55.6	51.9	111	104	70-130	7				
Bromomethane	ug/L	ND	50	50	51.9	56.9	104	114	70-130	9				
Carbon disulfide	ug/L	ND	50	50	59.8	57.9	120	116	70-130	3				
Carbon tetrachloride	ug/L	ND	50	50	69.9	66.0	140	132	70-130	6	M0			
Chlorobenzene	ug/L	ND	50	50	56.4	53.6	113	107	70-130	5				
Chloroethane	ug/L	ND	50	50	50.4	48.3	101	97	70-130	4				
Chloroform	ug/L	ND	50	50	59.4	55.8	119	112	70-130	6				
Chloromethane	ug/L	ND	50	50	49.4	47.3	99	95	70-130	4				
cis-1,2-Dichloroethene	ug/L	ND	50	50	56.5	53.2	113	106	70-130	6				
cis-1,3-Dichloropropene	ug/L	ND	50	50	60.5	57.7	121	115	70-130	5				
Cyclohexane	ug/L	ND	50	50	57.7	53.2	115	106	70-130	8				
Dibromochloromethane	ug/L	ND	50	50	57.8	54.7	116	109	70-130	6				
Dichlorodifluoromethane	ug/L	ND	50	50	68.0	64.0	136	128	70-130	6	M0			
Ethylbenzene	ug/L	10.3	50	50	66.2	60.9	112	101	70-130	8				
Isopropylbenzene (Cumene)	ug/L	9.7	50	50	68.7	63.3	118	107	70-130	8				
Methyl acetate	ug/L	ND	50	50	44.2	63.8	88	128	70-130	36	R1			
Methyl-tert-butyl ether	ug/L	ND	50	50	60.7	56.8	121	114	70-130	7				
Methylcyclohexane	ug/L	ND	50	50	58.1	53.0	116	106	70-130	9				
Methylene Chloride	ug/L	ND	50	50	54.7	51.5	109	103	70-130	6				
Styrene	ug/L	ND	50	50	60.9	56.7	122	113	70-130	7				
Tetrachloroethene	ug/L	ND	50	50	60.8	56.8	122	114	70-130	7				
Toluene	ug/L	ND	50	50	57.7	54.8	115	110	70-130	5				
trans-1,2-Dichloroethene	ug/L	ND	50	50	57.4	53.5	115	107	70-130	7				
trans-1,3-Dichloropropene	ug/L	ND	50	50	57.4	54.3	115	109	70-130	6				
Trichloroethene	ug/L	ND	50	50	59.3	56.7	119	113	70-130	5				
Trichlorofluoromethane	ug/L	ND	50	50	58.2	57.6	116	115	70-130	1				
Vinyl acetate	ug/L	ND	100	100	88.8	80.1	89	80	70-130	10				
Vinyl chloride	ug/L	ND	50	50	54.4	51.7	109	103	70-130	5				
1,2-Dichloroethane-d4 (S)	%						103	102	70-130					
4-Bromofluorobenzene (S)	%						103	105	70-130					
Toluene-d8 (S)	%						102	102	70-130					

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

QC Batch: MSV/26365 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
 Associated Lab Samples: 92196006009, 92196006010, 92196006011, 92196006012

METHOD BLANK: 1174078 Matrix: Water
 Associated Lab Samples: 92196006009, 92196006010, 92196006011, 92196006012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/08/14 19:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/08/14 19:26	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/08/14 19:26	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	04/08/14 19:26	
1,1-Dichloroethane	ug/L	ND	5.0	04/08/14 19:26	
1,1-Dichloroethene	ug/L	ND	5.0	04/08/14 19:26	
1,2,3-Trichlorobenzene	ug/L	6.9	5.0	04/08/14 19:26	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/08/14 19:26	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	04/08/14 19:26	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	04/08/14 19:26	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/08/14 19:26	
1,2-Dichloroethane	ug/L	ND	5.0	04/08/14 19:26	
1,2-Dichloropropane	ug/L	ND	5.0	04/08/14 19:26	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/08/14 19:26	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/08/14 19:26	
2-Butanone (MEK)	ug/L	ND	10.0	04/08/14 19:26	
2-Hexanone	ug/L	ND	10.0	04/08/14 19:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/08/14 19:26	
Acetone	ug/L	ND	25.0	04/08/14 19:26	
Benzene	ug/L	ND	5.0	04/08/14 19:26	
Bromodichloromethane	ug/L	ND	5.0	04/08/14 19:26	
Bromoform	ug/L	ND	5.0	04/08/14 19:26	
Bromomethane	ug/L	ND	10.0	04/08/14 19:26	
Carbon disulfide	ug/L	ND	10.0	04/08/14 19:26	
Carbon tetrachloride	ug/L	ND	5.0	04/08/14 19:26	
Chlorobenzene	ug/L	ND	5.0	04/08/14 19:26	
Chloroethane	ug/L	ND	10.0	04/08/14 19:26	
Chloroform	ug/L	ND	5.0	04/08/14 19:26	
Chloromethane	ug/L	ND	5.0	04/08/14 19:26	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/08/14 19:26	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/08/14 19:26	
Cyclohexane	ug/L	ND	5.0	04/08/14 19:26	
Dibromochloromethane	ug/L	ND	5.0	04/08/14 19:26	
Dichlorodifluoromethane	ug/L	ND	5.0	04/08/14 19:26	
Ethylbenzene	ug/L	ND	5.0	04/08/14 19:26	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	04/08/14 19:26	
Methyl acetate	ug/L	ND	10.0	04/08/14 19:26	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/08/14 19:26	
Methylcyclohexane	ug/L	ND	10.0	04/08/14 19:26	
Methylene Chloride	ug/L	ND	5.0	04/08/14 19:26	
Styrene	ug/L	ND	5.0	04/08/14 19:26	
Tetrachloroethene	ug/L	ND	5.0	04/08/14 19:26	
Toluene	ug/L	ND	5.0	04/08/14 19:26	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

METHOD BLANK: 1174078

Matrix: Water

Associated Lab Samples: 92196006009, 92196006010, 92196006011, 92196006012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/08/14 19:26	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/08/14 19:26	
Trichloroethene	ug/L	ND	5.0	04/08/14 19:26	
Trichlorofluoromethane	ug/L	ND	10.0	04/08/14 19:26	
Vinyl acetate	ug/L	ND	10.0	04/08/14 19:26	
Vinyl chloride	ug/L	ND	5.0	04/08/14 19:26	
Xylene (Total)	ug/L	ND	10.0	04/08/14 19:26	
1,2-Dichloroethane-d4 (S)	%	98	70-130	04/08/14 19:26	
4-Bromofluorobenzene (S)	%	99	70-130	04/08/14 19:26	
Toluene-d8 (S)	%	99	70-130	04/08/14 19:26	

LABORATORY CONTROL SAMPLE: 1174079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.2	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.6	105	70-130	
1,1,2-Trichloroethane	ug/L	50	54.0	108	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	55.7	111	70-130	
1,1-Dichloroethane	ug/L	50	52.2	104	70-130	
1,1-Dichloroethene	ug/L	50	51.1	102	70-130	
1,2,3-Trichlorobenzene	ug/L	50	57.8	116	70-130	
1,2,4-Trichlorobenzene	ug/L	50	55.1	110	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.5	103	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.9	108	70-130	
1,2-Dichlorobenzene	ug/L	50	54.0	108	70-130	
1,2-Dichloroethane	ug/L	50	53.4	107	70-130	
1,2-Dichloropropane	ug/L	50	53.9	108	70-130	
1,3-Dichlorobenzene	ug/L	50	51.4	103	70-130	
1,4-Dichlorobenzene	ug/L	50	52.7	105	70-130	
2-Butanone (MEK)	ug/L	100	99.4	99	70-130	
2-Hexanone	ug/L	100	98.7	99	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	70-130	
Acetone	ug/L	100	104	104	70-130	
Benzene	ug/L	50	54.6	109	70-130	
Bromodichloromethane	ug/L	50	52.7	105	70-130	
Bromoform	ug/L	50	53.5	107	70-130	
Bromomethane	ug/L	50	54.9	110	70-130	
Carbon disulfide	ug/L	50	53.1	106	70-130	
Carbon tetrachloride	ug/L	50	54.0	108	70-130	
Chlorobenzene	ug/L	50	54.6	109	70-130	
Chloroethane	ug/L	50	48.2	96	70-130	
Chloroform	ug/L	50	53.3	107	70-130	
Chloromethane	ug/L	50	51.9	104	70-130	
cis-1,2-Dichloroethene	ug/L	50	51.1	102	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.1	106	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

LABORATORY CONTROL SAMPLE: 1174079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyclohexane	ug/L	50	52.8	106	70-130	
Dibromochloromethane	ug/L	50	53.5	107	70-130	
Dichlorodifluoromethane	ug/L	50	52.9	106	70-130	
Ethylbenzene	ug/L	50	55.2	110	70-130	
Isopropylbenzene (Cumene)	ug/L	50	55.7	111	70-130	
Methyl acetate	ug/L	50	50.5	101	70-130	
Methyl-tert-butyl ether	ug/L	50	54.6	109	70-130	
Methylcyclohexane	ug/L	50	57.0	114	70-130	
Methylene Chloride	ug/L	50	55.5	111	70-130	
Styrene	ug/L	50	55.1	110	70-130	
Tetrachloroethene	ug/L	50	54.6	109	70-130	
Toluene	ug/L	50	54.3	109	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.6	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.4	107	70-130	
Trichloroethene	ug/L	50	53.7	107	70-130	
Trichlorofluoromethane	ug/L	50	51.9	104	70-130	
Vinyl acetate	ug/L	100	99.7	100	70-130	
Vinyl chloride	ug/L	50	53.0	106	70-130	
Xylene (Total)	ug/L	150	167	111	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1174829 1174830

Parameter	92196067002		MS	MSD	MS		MSD		% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,1,1-Trichloroethane	ug/L	ND	50	50	67.2	66.9	134	134	70-130	0	M0
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	55.0	55.6	110	111	70-130	1	
1,1,2-Trichloroethane	ug/L	ND	50	50	59.4	60.9	119	122	70-130	2	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	62.7	64.8	125	130	70-130	3	
1,1-Dichloroethane	ug/L	ND	50	50	56.7	57.9	113	116	70-130	2	
1,1-Dichloroethene	ug/L	ND	50	50	62.2	61.7	124	123	70-130	1	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	50.6	57.8	101	116	70-130	13	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	49.5	57.4	99	115	70-130	15	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	60.1	58.0	120	116	70-130	4	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	60.3	60.6	121	121	70-130	0	
1,2-Dichlorobenzene	ug/L	ND	50	50	55.5	58.3	111	117	70-130	5	
1,2-Dichloroethane	ug/L	ND	50	50	62.7	63.1	125	126	70-130	1	
1,2-Dichloropropane	ug/L	ND	50	50	55.9	57.1	112	114	70-130	2	
1,3-Dichlorobenzene	ug/L	ND	50	50	53.3	58.0	107	116	70-130	8	
1,4-Dichlorobenzene	ug/L	ND	50	50	53.5	56.5	107	113	70-130	5	
2-Butanone (MEK)	ug/L	ND	100	100	109	109	109	109	70-130	0	
2-Hexanone	ug/L	ND	100	100	119	119	119	119	70-130	0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	115	116	115	116	70-130	0	
Acetone	ug/L	ND	100	100	123	118	123	118	70-130	4	
Benzene	ug/L	ND	50	50	56.0	57.6	112	115	70-130	3	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Parameter	92196067002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec						
Bromodichloromethane	ug/L	ND	50	50	66.8	68.9	134	138	70-130	3	M0			
Bromoform	ug/L	ND	50	50	56.4	57.3	113	115	70-130	2				
Bromomethane	ug/L	ND	50	50	63.8	67.2	128	134	70-130	5	M0			
Carbon disulfide	ug/L	ND	50	50	62.4	62.2	125	124	70-130	0				
Carbon tetrachloride	ug/L	ND	50	50	70.6	69.7	141	139	70-130	1	M0			
Chlorobenzene	ug/L	ND	50	50	55.6	57.3	111	115	70-130	3				
Chloroethane	ug/L	ND	50	50	49.8	51.8	100	104	70-130	4				
Chloroform	ug/L	ND	50	50	58.4	60.1	117	120	70-130	3				
Chloromethane	ug/L	ND	50	50	50.7	52.0	101	104	70-130	3				
cis-1,2-Dichloroethene	ug/L	ND	50	50	55.5	57.4	111	115	70-130	3				
cis-1,3-Dichloropropene	ug/L	ND	50	50	60.4	62.7	121	125	70-130	4				
Cyclohexane	ug/L	ND	50	50	53.6	55.1	107	110	70-130	3				
Dibromochloromethane	ug/L	ND	50	50	58.1	59.7	116	119	70-130	3				
Dichlorodifluoromethane	ug/L	ND	50	50	65.2	67.3	130	135	70-130	3	M0			
Ethylbenzene	ug/L	ND	50	50	56.5	58.5	111	115	70-130	3				
Isopropylbenzene (Cumene)	ug/L	ND	50	50	57.7	61.8	115	124	70-130	7				
Methyl acetate	ug/L	ND	50	50	37.4	41.9	75	84	70-130	12				
Methyl-tert-butyl ether	ug/L	ND	50	50	61.1	61.9	122	124	70-130	1				
Methylcyclohexane	ug/L	ND	50	50	50.3	56.8	101	114	70-130	12				
Methylene Chloride	ug/L	ND	50	50	52.8	55.7	106	111	70-130	5				
Styrene	ug/L	ND	50	50	58.0	61.2	116	122	70-130	5				
Tetrachloroethene	ug/L	ND	50	50	58.4	60.5	117	121	70-130	4				
Toluene	ug/L	ND	50	50	56.3	58.1	113	116	70-130	3				
trans-1,2-Dichloroethene	ug/L	ND	50	50	57.3	57.5	115	115	70-130	0				
trans-1,3-Dichloropropene	ug/L	ND	50	50	58.7	59.7	117	119	70-130	2				
Trichloroethene	ug/L	ND	50	50	59.5	59.5	119	119	70-130	0				
Trichlorofluoromethane	ug/L	ND	50	50	59.8	60.8	120	122	70-130	2				
Vinyl acetate	ug/L	ND	100	100	98.5	99.4	99	99	70-130	1				
Vinyl chloride	ug/L	ND	50	50	54.9	55.1	110	110	70-130	0				
1,2-Dichloroethane-d4 (S)	%						103	102	70-130					
4-Bromofluorobenzene (S)	%						104	105	70-130					
Toluene-d8 (S)	%						103	103	70-130					

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

QC Batch: MSV/26316 Analysis Method: EPA 8260B Mod.

QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM

Associated Lab Samples: 92196006001, 92196006002, 92196006013

METHOD BLANK: 1171636 Matrix: Water

Associated Lab Samples: 92196006001, 92196006002, 92196006013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	04/08/14 12:41	
1,2-Dichloroethane-d4 (S)	%	102	50-150	04/08/14 12:41	
Toluene-d8 (S)	%	100	50-150	04/08/14 12:41	

LABORATORY CONTROL SAMPLE: 1171637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	22.2	111	50-150	
1,2-Dichloroethane-d4 (S)	%			100	50-150	
Toluene-d8 (S)	%			101	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1171638 1171639

Parameter	Units	92195116002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	22.7	22.1	113	110	50-150	3	
1,2-Dichloroethane-d4 (S)	%						105	105	50-150		
Toluene-d8 (S)	%						94	94	50-150		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1171640 1171641

Parameter	Units	92196006001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	2.3	20	20	25.5	26.8	116	123	50-150	5	
1,2-Dichloroethane-d4 (S)	%						101	103	50-150		
Toluene-d8 (S)	%						95	95	50-150		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

QC Batch: OEXT/26889 Analysis Method: EPA 8270
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
 Associated Lab Samples: 92196006001, 92196006002

METHOD BLANK: 1172890 Matrix: Water

Associated Lab Samples: 92196006001, 92196006002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	ND	10.0	04/11/14 21:07	
2,4,5-Trichlorophenol	ug/L	ND	10.0	04/11/14 21:07	
2,4,6-Trichlorophenol	ug/L	ND	10.0	04/11/14 21:07	
2,4-Dichlorophenol	ug/L	ND	10.0	04/11/14 21:07	
2,4-Dimethylphenol	ug/L	ND	10.0	04/11/14 21:07	
2,4-Dinitrophenol	ug/L	ND	50.0	04/11/14 21:07	
2,4-Dinitrotoluene	ug/L	ND	10.0	04/11/14 21:07	
2,6-Dinitrotoluene	ug/L	ND	10.0	04/11/14 21:07	
2-Chloronaphthalene	ug/L	ND	10.0	04/11/14 21:07	
2-Chlorophenol	ug/L	ND	10.0	04/11/14 21:07	
2-Methylnaphthalene	ug/L	ND	10.0	04/11/14 21:07	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/11/14 21:07	
2-Nitroaniline	ug/L	ND	50.0	04/11/14 21:07	
2-Nitrophenol	ug/L	ND	10.0	04/11/14 21:07	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	04/11/14 21:07	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	04/11/14 21:07	
3-Nitroaniline	ug/L	ND	50.0	04/11/14 21:07	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	04/11/14 21:07	
4-Bromophenylphenyl ether	ug/L	ND	10.0	04/11/14 21:07	
4-Chloro-3-methylphenol	ug/L	ND	20.0	04/11/14 21:07	
4-Chloroaniline	ug/L	ND	20.0	04/11/14 21:07	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	04/11/14 21:07	
4-Nitroaniline	ug/L	ND	20.0	04/11/14 21:07	
4-Nitrophenol	ug/L	ND	50.0	04/11/14 21:07	
Acenaphthene	ug/L	ND	10.0	04/11/14 21:07	
Acenaphthylene	ug/L	ND	10.0	04/11/14 21:07	
Anthracene	ug/L	ND	10.0	04/11/14 21:07	
Atrazine	ug/L	ND	20.0	04/11/14 21:07	
Benzaldehyde	ug/L	ND	20.0	04/11/14 21:07	
Benzo(a)anthracene	ug/L	ND	10.0	04/11/14 21:07	
Benzo(a)pyrene	ug/L	ND	10.0	04/11/14 21:07	
Benzo(b)fluoranthene	ug/L	ND	10.0	04/11/14 21:07	
Benzo(g,h,i)perylene	ug/L	ND	10.0	04/11/14 21:07	
Benzo(k)fluoranthene	ug/L	ND	10.0	04/11/14 21:07	
Biphenyl (Diphenyl)	ug/L	ND	10.0	04/11/14 21:07	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	04/11/14 21:07	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	04/11/14 21:07	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	04/11/14 21:07	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	04/11/14 21:07	
Butylbenzylphthalate	ug/L	ND	10.0	04/11/14 21:07	
Caprolactam	ug/L	ND	10.0	04/11/14 21:07	
Carbazole	ug/L	ND	10.0	04/11/14 21:07	
Chrysene	ug/L	ND	10.0	04/11/14 21:07	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

METHOD BLANK: 1172890

Matrix: Water

Associated Lab Samples: 92196006001, 92196006002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Di-n-butylphthalate	ug/L	ND	10.0	04/11/14 21:07	
Di-n-octylphthalate	ug/L	ND	10.0	04/11/14 21:07	
Dibenz(a,h)anthracene	ug/L	ND	10.0	04/11/14 21:07	
Dibenzofuran	ug/L	ND	10.0	04/11/14 21:07	
Diethylphthalate	ug/L	ND	10.0	04/11/14 21:07	
Dimethylphthalate	ug/L	ND	10.0	04/11/14 21:07	
Diphenyl ether (Phenyl ether)	ug/L	ND	20.0	04/11/14 21:07	
Fluoranthene	ug/L	ND	10.0	04/11/14 21:07	
Fluorene	ug/L	ND	10.0	04/11/14 21:07	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	04/11/14 21:07	
Hexachlorobenzene	ug/L	ND	10.0	04/11/14 21:07	
Hexachlorocyclopentadiene	ug/L	ND	10.0	04/11/14 21:07	
Hexachloroethane	ug/L	ND	10.0	04/11/14 21:07	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	04/11/14 21:07	
Isophorone	ug/L	ND	10.0	04/11/14 21:07	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	04/11/14 21:07	
N-Nitrosodiphenylamine	ug/L	ND	10.0	04/11/14 21:07	
Naphthalene	ug/L	ND	10.0	04/11/14 21:07	
Nitrobenzene	ug/L	ND	10.0	04/11/14 21:07	
Pentachlorophenol	ug/L	ND	25.0	04/11/14 21:07	
Phenanthrene	ug/L	ND	10.0	04/11/14 21:07	
Phenol	ug/L	ND	10.0	04/11/14 21:07	
Pyrene	ug/L	ND	10.0	04/11/14 21:07	
2,4,6-Tribromophenol (S)	%	51	27-110	04/11/14 21:07	
2-Fluorobiphenyl (S)	%	36	27-110	04/11/14 21:07	
2-Fluorophenol (S)	%	23	12-110	04/11/14 21:07	
Nitrobenzene-d5 (S)	%	39	21-110	04/11/14 21:07	
Phenol-d6 (S)	%	16	10-110	04/11/14 21:07	
Terphenyl-d14 (S)	%	69	31-107	04/11/14 21:07	

LABORATORY CONTROL SAMPLE: 1172891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	50	42.0	84	17-115	
2,4,5-Trichlorophenol	ug/L	50	48.6	97	23-116	
2,4,6-Trichlorophenol	ug/L	50	45.0	90	21-114	
2,4-Dichlorophenol	ug/L	50	40.1	80	22-120	
2,4-Dimethylphenol	ug/L	50	35.5	71	15-109	
2,4-Dinitrophenol	ug/L	250	230	92	10-103	
2,4-Dinitrotoluene	ug/L	50	55.3	111	24-119	
2,6-Dinitrotoluene	ug/L	50	58.0	116	25-116	
2-Chloronaphthalene	ug/L	50	46.7	93	18-110	
2-Chlorophenol	ug/L	50	45.5	91	10-104	
2-Methylnaphthalene	ug/L	50	37.4	75	16-110	
2-Methylphenol(o-Cresol)	ug/L	50	42.4	85	13-110	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

LABORATORY CONTROL SAMPLE: 1172891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Nitroaniline	ug/L	100	108	108	20-117	
2-Nitrophenol	ug/L	50	40.0	80	16-108	
3&4-Methylphenol(m&p Cresol)	ug/L	50	37.3	75	14-110	
3,3'-Dichlorobenzidine	ug/L	250	107	43	13-131	
3-Nitroaniline	ug/L	100	99.6	100	15-117	
4,6-Dinitro-2-methylphenol	ug/L	100	93.8	94	13-119	
4-Bromophenylphenyl ether	ug/L	50	42.1	84	23-120	
4-Chloro-3-methylphenol	ug/L	100	86.6	87	21-119	
4-Chloroaniline	ug/L	100	70.3	70	10-122	
4-Chlorophenylphenyl ether	ug/L	50	45.5	91	22-112	
4-Nitroaniline	ug/L	100	110	110	14-118	
4-Nitrophenol	ug/L	250	118	47	10-110	
Acenaphthene	ug/L	50	43.5	87	20-105	
Acenaphthylene	ug/L	50	45.1	90	23-106	
Anthracene	ug/L	50	44.8	90	25-120	
Atrazine	ug/L	50	49.5	99	17-115	
Benzaldehyde	ug/L	50	ND	4	17-115 L2	
Benzo(a)anthracene	ug/L	50	46.6	93	21-128	
Benzo(a)pyrene	ug/L	50	48.2	96	25-116	
Benzo(b)fluoranthene	ug/L	50	49.4	99	23-117	
Benzo(g,h,i)perylene	ug/L	50	42.9	86	17-128	
Benzo(k)fluoranthene	ug/L	50	41.6	83	25-127	
Biphenyl (Diphenyl)	ug/L	50	43.4	87	17-115	
bis(2-Chloroethoxy)methane	ug/L	50	41.3	83	19-107	
bis(2-Chloroethyl) ether	ug/L	50	47.6	95	10-108	
bis(2-Chloroisopropyl) ether	ug/L	50	40.6	81	10-108	
bis(2-Ethylhexyl)phthalate	ug/L	50	50.6	101	16-123	
Butylbenzylphthalate	ug/L	50	55.5	111	20-118	
Caprolactam	ug/L	50	19.8	40	17-115	
Carbazole	ug/L	50	51.7	103	17-115	
Chrysene	ug/L	50	47.4	95	24-125	
Di-n-butylphthalate	ug/L	50	48.3	97	23-115	
Di-n-octylphthalate	ug/L	50	49.8	100	20-115	
Dibenz(a,h)anthracene	ug/L	50	45.6	91	18-131	
Dibenzofuran	ug/L	50	49.6	99	23-106	
Diethylphthalate	ug/L	50	45.9	92	24-115	
Dimethylphthalate	ug/L	50	46.1	92	22-113	
Diphenyl ether (Phenyl ether)	ug/L	50	43.9	88	17-115	
Fluoranthene	ug/L	50	50.2	100	24-125	
Fluorene	ug/L	50	47.9	96	24-114	
Hexachloro-1,3-butadiene	ug/L	50	33.2	66	10-110	
Hexachlorobenzene	ug/L	50	44.9	90	22-127	
Hexachlorocyclopentadiene	ug/L	50	38.6	77	10-110	
Hexachloroethane	ug/L	50	47.5	95	10-110	
Indeno(1,2,3-cd)pyrene	ug/L	50	46.6	93	18-130	
Isophorone	ug/L	50	37.8	76	23-114	
N-Nitroso-di-n-propylamine	ug/L	50	41.6	83	21-114	
N-Nitrosodiphenylamine	ug/L	50	36.7	73	24-123	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

LABORATORY CONTROL SAMPLE: 1172891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	34.9	70	14-110	
Nitrobenzene	ug/L	50	33.1	66	16-106	
Pentachlorophenol	ug/L	250	94.8	38	10-123	
Phenanthrene	ug/L	50	42.6	85	25-119	
Phenol	ug/L	50	24.3	49	10-110	
Pyrene	ug/L	50	43.3	87	22-127	
2,4,6-Tribromophenol (S)	%			102	27-110	
2-Fluorobiphenyl (S)	%			86	27-110	
2-Fluorophenol (S)	%			54	12-110	
Nitrobenzene-d5 (S)	%			68	21-110	
Phenol-d6 (S)	%			41	10-110	
Terphenyl-d14 (S)	%			88	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1172892 1172893

Parameter	92196006001		MS	MSD	MS		MSD		% Rec	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,2,4,5-Tetrachlorobenzene	ug/L	ND	100	100	84.0	78.5	84	79	50-150	7	
2,4,5-Trichlorophenol	ug/L	ND	100	100	96.3	94.3	96	94	19-105	2	
2,4,6-Trichlorophenol	ug/L	ND	100	100	87.3	88.5	87	88	13-108	1	
2,4-Dichlorophenol	ug/L	ND	100	100	75.5	85.4	76	85	29-111	12	
2,4-Dimethylphenol	ug/L	ND	100	100	68.1	75.7	68	76	21-103	11	
2,4-Dinitrophenol	ug/L	ND	500	500	455	496	91	99	10-109	9	
2,4-Dinitrotoluene	ug/L	ND	100	100	112	110	112	110	27-104	1	M1
2,6-Dinitrotoluene	ug/L	ND	100	100	116	116	116	116	28-101	0	M1
2-Chloronaphthalene	ug/L	ND	100	100	89.8	89.3	90	89	14-102	1	
2-Chlorophenol	ug/L	ND	100	100	86.5	95.5	86	96	16-110	10	
2-Methylnaphthalene	ug/L	ND	100	100	70.6	78.4	71	78	13-110	11	
2-Methylphenol(o-Cresol)	ug/L	ND	100	100	78.8	99.3	79	99	19-110	23	
2-Nitroaniline	ug/L	ND	200	200	219	217	109	109	26-103	1	M1
2-Nitrophenol	ug/L	ND	100	100	80.8	76.8	81	77	20-110	5	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	100	100	70.9	96.2	71	96	20-110	30	
3,3'-Dichlorobenzidine	ug/L	ND	500	500	215	203	43	41	25-112	6	
3-Nitroaniline	ug/L	ND	200	200	208	208	104	104	29-110	0	
4,6-Dinitro-2-methylphenol	ug/L	ND	200	200	182	192	91	96	10-117	5	
4-Bromophenylphenyl ether	ug/L	ND	100	100	82.4	82.1	82	82	20-105	0	
4-Chloro-3-methylphenol	ug/L	ND	200	200	172	203	86	101	22-110	17	
4-Chloroaniline	ug/L	ND	200	200	138	153	69	76	20-100	10	
4-Chlorophenylphenyl ether	ug/L	ND	100	100	90.0	89.3	90	89	19-102	1	
4-Nitroaniline	ug/L	ND	200	200	227	227	114	113	29-110	0	M1
4-Nitrophenol	ug/L	ND	500	500	319	364	64	73	10-110	13	
Acenaphthene	ug/L	ND	100	100	83.7	84.4	84	84	17-100	1	
Acenaphthylene	ug/L	ND	100	100	87.3	87.0	87	87	21-100	0	
Anthracene	ug/L	ND	100	100	88.7	87.3	89	87	24-109	2	
Atrazine	ug/L	ND	100	100	95.6	100	96	100	50-150	5	
Benzaldehyde	ug/L	ND	100	100	ND	ND	4	4	50-150		M0

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Parameter	92196006001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Benzo(a)anthracene	ug/L	ND	100	100	91.2	87.7	91	88	22-117	4				
Benzo(a)pyrene	ug/L	ND	100	100	96.1	94.5	96	94	23-104	2				
Benzo(b)fluoranthene	ug/L	ND	100	100	101	96.9	101	97	23-103	4				
Benzo(g,h,i)perylene	ug/L	ND	100	100	86.2	88.5	86	88	18-111	3				
Benzo(k)fluoranthene	ug/L	ND	100	100	81.0	83.7	81	84	22-113	3				
Biphenyl (Diphenyl)	ug/L	ND	100	100	81.7	81.3	82	81	50-150	0				
bis(2-Chloroethoxy)methane	ug/L	ND	100	100	82.5	81.9	83	82	22-110	1				
bis(2-Chloroethyl) ether	ug/L	ND	100	100	84.3	86.4	84	86	16-110	2				
bis(2-Chloroisopropyl) ether	ug/L	ND	100	100	77.4	79.4	77	79	14-110	3				
bis(2-Ethylhexyl)phthalate	ug/L	ND	100	100	113	111	113	111	23-102	1	M1			
Butylbenzylphthalate	ug/L	ND	100	100	102	102	102	102	25-110	0				
Caprolactam	ug/L	ND	100	100	54.6	77.3	55	77	50-150	34	R1			
Carbazole	ug/L	ND	100	100	99.8	96.3	100	96	50-150	4				
Chrysene	ug/L	ND	100	100	92.1	90.1	92	90	23-115	2				
Di-n-butylphthalate	ug/L	ND	100	100	94.9	95.0	95	95	26-110	0				
Di-n-octylphthalate	ug/L	ND	100	100	137	130	137	130	22-110	6	M1			
Dibenz(a,h)anthracene	ug/L	ND	100	100	92.0	93.0	92	93	21-112	1				
Dibenzofuran	ug/L	ND	100	100	96.4	96.8	96	97	19-102	0				
Diethylphthalate	ug/L	ND	100	100	91.8	90.7	92	91	29-110	1				
Dimethylphthalate	ug/L	ND	100	100	91.9	89.8	92	90	27-110	2				
Diphenyl ether (Phenyl ether)	ug/L	ND	100	100	85.9	86.2	86	86	50-150	0				
Fluoranthene	ug/L	ND	100	100	96.1	93.9	96	94	23-112	2				
Fluorene	ug/L	ND	100	100	96.9	94.9	97	95	22-104	2				
Hexachloro-1,3-butadiene	ug/L	ND	100	100	71.1	62.4	71	62	10-110	13				
Hexachlorobenzene	ug/L	ND	100	100	87.7	85.9	88	86	21-116	2				
Hexachlorocyclopentadiene	ug/L	ND	100	100	75.3	69.2	75	69	10-110	8				
Hexachloroethane	ug/L	ND	100	100	94.0	93.8	94	94	10-110	0				
Indeno(1,2,3-cd)pyrene	ug/L	ND	100	100	94.2	94.6	94	95	20-113	0				
Isophorone	ug/L	ND	100	100	73.0	78.4	73	78	50-150	7				
N-Nitroso-di-n-propylamine	ug/L	ND	100	100	69.0	84.1	69	84	21-105	20				
N-Nitrosodiphenylamine	ug/L	ND	100	100	71.4	70.3	71	70	23-107	1				
Naphthalene	ug/L	ND	100	100	70.0	67.5	70	68	10-110	4				
Nitrobenzene	ug/L	ND	100	100	70.4	64.3	70	64	20-110	9				
Pentachlorophenol	ug/L	ND	500	500	188	185	38	37	10-118	1				
Phenanthrene	ug/L	ND	100	100	84.1	82.4	84	82	24-106	2				
Phenol	ug/L	ND	100	100	53.4	69.3	53	69	12-110	26				
Pyrene	ug/L	ND	100	100	86.0	87.0	86	87	24-114	1				
2,4,6-Tribromophenol (S)	%						100	99	27-110					
2-Fluorobiphenyl (S)	%						82	81	27-110					
2-Fluorophenol (S)	%						61	69	12-110					
Nitrobenzene-d5 (S)	%						70	64	21-110					
Phenol-d6 (S)	%						47	63	10-110					
Terphenyl-d14 (S)	%						83	88	31-107					

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC
Pace Project No.: 92196006

QC Batch: WET/30516 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92196006001, 92196006002, 92196006003, 92196006005, 92196006006, 92196006007, 92196006008, 92196006009, 92196006010, 92196006011, 92196006012

METHOD BLANK: 1178159 Matrix: Water
Associated Lab Samples: 92196006001, 92196006002, 92196006003, 92196006005, 92196006006, 92196006007, 92196006008, 92196006009, 92196006010, 92196006011, 92196006012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	04/15/14 10:30	

LABORATORY CONTROL SAMPLE: 1178160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	53.0	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1178161 1178162

Parameter	Units	92196006001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	14.8	50	50	67.1	67.0	105	104	75-125	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1178163 1178164

Parameter	Units	92196824001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	13.1	50	50	66.0	67.0	106	108	75-125	1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

QC Batch: WETA/18711 Analysis Method: SM 4500-Cl-E
 QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
 Associated Lab Samples: 92196006001, 92196006002, 92196006003, 92196006005, 92196006006, 92196006007, 92196006008, 92196006009, 92196006010, 92196006011, 92196006012

METHOD BLANK: 1179261 Matrix: Water
 Associated Lab Samples: 92196006001, 92196006002, 92196006003, 92196006005, 92196006006, 92196006007, 92196006008, 92196006009, 92196006010, 92196006011, 92196006012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	04/16/14 17:06	

LABORATORY CONTROL SAMPLE: 1179262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.5	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1179263 1179264

Parameter	Units	92195647006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	4.5	20	20	24.4	24.7	99	101	75-125	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1179265 1179266

Parameter	Units	92196006001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	2.8	20	20	22.7	22.7	100	100	75-125	0	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: AURIGA, SPARTANBURG SC
Pace Project No.: 92196006

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville
PASI-C Pace Analytical Services - Charlotte
PASI-G Pace Analytical Services - Greenwood

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.
L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92196006001	MW-120	EPA 9060A	GWD/1158		
92196006002	RW-121	EPA 9060A	GWD/1158		
92196006003	RW-129	EPA 9060A	GWD/1158		
92196006005	MW-128	EPA 9060A	GWD/1158		
92196006006	RW-133	EPA 9060A	GWD/1159		
92196006007	RW-403	EPA 9060A	GWD/1159		
92196006008	RW-123	EPA 9060A	GWD/1159		
92196006009	MW-126	EPA 9060A	GWD/1159		
92196006010	MW-122	EPA 9060A	GWD/1159		
92196006011	RW-127	EPA 9060A	GWD/1159		
92196006012	MW-124	EPA 9060A	GWD/1159		
92196006001	MW-120	EPA 3010	MPRP/15659	EPA 6010	ICP/14186
92196006002	RW-121	EPA 3010	MPRP/15659	EPA 6010	ICP/14186
92196006003	RW-129	EPA 3010	MPRP/15659	EPA 6010	ICP/14186
92196006005	MW-128	EPA 3010	MPRP/15659	EPA 6010	ICP/14186
92196006006	RW-133	EPA 3010	MPRP/15659	EPA 6010	ICP/14186
92196006007	RW-403	EPA 3010	MPRP/15659	EPA 6010	ICP/14186
92196006008	RW-123	EPA 3010	MPRP/15660	EPA 6010	ICP/14187
92196006009	MW-126	EPA 3010	MPRP/15660	EPA 6010	ICP/14187
92196006010	MW-122	EPA 3010	MPRP/15660	EPA 6010	ICP/14187
92196006011	RW-127	EPA 3010	MPRP/15660	EPA 6010	ICP/14187
92196006012	MW-124	EPA 3010	MPRP/15660	EPA 6010	ICP/14187
92196006001	MW-120	EPA 3510	OEXT/26889	EPA 8270	MSSV/8963
92196006002	RW-121	EPA 3510	OEXT/26889	EPA 8270	MSSV/8963
92196006001	MW-120	EPA 8260	MSV/26342		
92196006002	RW-121	EPA 8260	MSV/26342		
92196006003	RW-129	EPA 8260	MSV/26342		
92196006005	MW-128	EPA 8260	MSV/26342		
92196006006	RW-133	EPA 8260	MSV/26342		
92196006007	RW-403	EPA 8260	MSV/26364		
92196006008	RW-123	EPA 8260	MSV/26364		
92196006009	MW-126	EPA 8260	MSV/26365		
92196006010	MW-122	EPA 8260	MSV/26365		
92196006011	RW-127	EPA 8260	MSV/26365		
92196006012	MW-124	EPA 8260	MSV/26365		
92196006013	MW-303	EPA 8260	MSV/26342		
92196006001	MW-120	EPA 8260B Mod.	MSV/26316		
92196006002	RW-121	EPA 8260B Mod.	MSV/26316		
92196006013	MW-303	EPA 8260B Mod.	MSV/26316		
92196006001	MW-120	SM 2320B	WET/30516		
92196006002	RW-121	SM 2320B	WET/30516		
92196006003	RW-129	SM 2320B	WET/30516		
92196006005	MW-128	SM 2320B	WET/30516		
92196006006	RW-133	SM 2320B	WET/30516		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92196006

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92196006007	RW-403	SM 2320B	WET/30516		
92196006008	RW-123	SM 2320B	WET/30516		
92196006009	MW-126	SM 2320B	WET/30516		
92196006010	MW-122	SM 2320B	WET/30516		
92196006011	RW-127	SM 2320B	WET/30516		
92196006012	MW-124	SM 2320B	WET/30516		
92196006001	MW-120	SM 4500-CI-E	WETA/18711		
92196006002	RW-121	SM 4500-CI-E	WETA/18711		
92196006003	RW-129	SM 4500-CI-E	WETA/18711		
92196006005	MW-128	SM 4500-CI-E	WETA/18711		
92196006006	RW-133	SM 4500-CI-E	WETA/18711		
92196006007	RW-403	SM 4500-CI-E	WETA/18711		
92196006008	RW-123	SM 4500-CI-E	WETA/18711		
92196006009	MW-126	SM 4500-CI-E	WETA/18711		
92196006010	MW-122	SM 4500-CI-E	WETA/18711		
92196006011	RW-127	SM 4500-CI-E	WETA/18711		
92196006012	MW-124	SM 4500-CI-E	WETA/18711		

REPORT OF LABORATORY ANALYSIS

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Document Name: **Sample Condition Upon Receipt (SCUR)**
 Document Number: **F-CHR-CS-03-rev.13**

Page 1 of 2
 Issuing Authority:
 Pace Huntersville Quality Office

Client Name: AECOM

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used: IR Gun T1102 T1301 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor T1102: No Correction T1301: No Correction

Corrected Cooler Temp.: 1.5 °C Biological Tissue is Frozen: Yes No N/A
 Temp should be above freezing to 6°C

Date and Initials of person examining contents: LD 4/3/14

Item	Yes	No	N/A	Comments
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6.
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.
Correct Containers Used:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11. <u>NO</u>
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12.
-Includes date/time/ID/Analysis Matrix:				<u>WT</u>
All containers needing preservation have been checked.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Samples checked for dechlorination:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15.
Trip Blank Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>NO time / Date on TB</u>
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: _____ Field Data Required? Y / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

SCURF Review: [Signature] Date: 4/3/14
 SRF Review: [Signature] Date: 4/3/14

WO#: 92196006

92196006

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

April 17, 2014

Bryon Dahlgren
AECOM
10 Patewood Drive, Bldg 6
Suite 500
Greenville, SC 29615

RE: Project: AURIGA, SPARTANBURG SC
Pace Project No.: 92195702

Dear Bryon Dahlgren:

Enclosed are the analytical results for sample(s) received by the laboratory on April 02, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Aynsley Zollinger, AECOM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

Greenwood Certification IDs

816 Durst Avenue East, Greenwood, SC 29649
South Carolina Laboratory ID #: 24562
North Carolina Division of Water Resources Certification
number 25

Florida Certification number E87633
Virginia VELAP ID: 460250
Asbestos NVLAP accreditation: 101410-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92195702001	MW-302	EPA 8260	CAH	53	PASI-C
		EPA 8260B Mod.	MCK	3	PASI-C
92195702002	MW-116	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	72	PASI-C
		EPA 8260	CAH	53	PASI-C
		EPA 8260B Mod.	MCK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92195702003	MW-118	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	72	PASI-C
		EPA 8260	CAH	53	PASI-C
		EPA 8260B Mod.	MCK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92195702004	RW-119	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	72	PASI-C
		EPA 8260	CAH	53	PASI-C
		EPA 8260B Mod.	MCK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92195702005	MW-114	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	72	PASI-C
		EPA 8260	CAH	53	PASI-C
		EPA 8260B Mod.	MCK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92195702006	MW-402	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	72	PASI-C
		EPA 8260	CAH	53	PASI-C
		EPA 8260B Mod.	MCK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92195702007	RW-115	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	72	PASI-C
		EPA 8260	CAH	53	PASI-C
		EPA 8260B Mod.	MCK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92195702008	MW-401	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	CAH	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92195702009	MW-132	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	CAH	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A
92195702010	MW-134	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	CAH	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-CI-E	DMN	1	PASI-A

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-302		Lab ID: 92195702001	Collected: 04/01/14 13:00	Received: 04/02/14 14:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		04/04/14 17:21	67-64-1	
Benzene	ND	ug/L	5.0	1		04/04/14 17:21	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/04/14 17:21	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/04/14 17:21	75-25-2	
Bromomethane	ND	ug/L	10.0	1		04/04/14 17:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/04/14 17:21	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/04/14 17:21	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/04/14 17:21	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/04/14 17:21	108-90-7	
Chloroethane	ND	ug/L	10.0	1		04/04/14 17:21	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/04/14 17:21	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/04/14 17:21	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		04/04/14 17:21	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		04/04/14 17:21	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/04/14 17:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/04/14 17:21	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/04/14 17:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/04/14 17:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/04/14 17:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/04/14 17:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/04/14 17:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/04/14 17:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/04/14 17:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/04/14 17:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/04/14 17:21	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/04/14 17:21	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/04/14 17:21	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/04/14 17:21	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		04/04/14 17:21	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		04/04/14 17:21	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		04/04/14 17:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/04/14 17:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		04/04/14 17:21	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/04/14 17:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/04/14 17:21	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/04/14 17:21	127-18-4	
Toluene	ND	ug/L	5.0	1		04/04/14 17:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/04/14 17:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/04/14 17:21	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/04/14 17:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/04/14 17:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/04/14 17:21	76-13-1	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-302		Lab ID: 92195702001	Collected: 04/01/14 13:00	Received: 04/02/14 14:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	10.0	1		04/04/14 17:21	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/04/14 17:21	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/04/14 17:21	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		04/04/14 17:21	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		04/04/14 17:21	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		04/04/14 17:21	2037-26-5	
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		04/08/14 16:28	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	50-150	1		04/08/14 16:28	17060-07-0	
Toluene-d8 (S)	96	%	50-150	1		04/08/14 16:28	2037-26-5	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-116	Lab ID: 92195702002	Collected: 04/01/14 14:55	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 18:30	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 18:30	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 18:30	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 18:30	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		04/08/14 18:30	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	190 ug/L		5.0	1	04/15/14 13:09	04/15/14 15:18	7439-96-5	
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	83-32-9	
Acenaphthylene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	208-96-8	
Anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	120-12-7	
Atrazine	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 19:32	1912-24-9	
Benzaldehyde	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 19:32	100-52-7	
Benzo(a)anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	56-55-3	
Benzo(a)pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	50-32-8	
Benzo(b)fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	191-24-2	
Benzo(k)fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	207-08-9	
Biphenyl (Diphenyl)	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	92-52-4	
4-Bromophenylphenyl ether	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	101-55-3	
Butylbenzylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	85-68-7	
Caprolactam	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	105-60-2	
Carbazole	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	86-74-8	
4-Chloro-3-methylphenol	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 19:32	59-50-7	
4-Chloroaniline	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 19:32	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	108-60-1	
2-Chloronaphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	91-58-7	
2-Chlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	7005-72-3	
Chrysene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	53-70-3	
Dibenzofuran	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	132-64-9	
3,3'-Dichlorobenzidine	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 19:32	91-94-1	
2,4-Dichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	120-83-2	
Diethylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	84-66-2	
2,4-Dimethylphenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	105-67-9	
Dimethylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	131-11-3	
Di-n-butylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 19:32	534-52-1	
2,4-Dinitrophenol	ND ug/L		50.0	1	04/04/14 16:00	04/12/14 19:32	51-28-5	
2,4-Dinitrotoluene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	121-14-2	
2,6-Dinitrotoluene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	606-20-2	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-116	Lab ID: 92195702002	Collected: 04/01/14 14:55	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Di-n-octylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	117-84-0	
Diphenyl ether (Phenyl ether)	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 19:32	101-84-8	
bis(2-Ethylhexyl)phthalate	ND ug/L		6.0	1	04/04/14 16:00	04/12/14 19:32	117-81-7	
Fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	206-44-0	
Fluorene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	87-68-3	
Hexachlorobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	77-47-4	
Hexachloroethane	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	193-39-5	
Isophorone	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	78-59-1	
2-Methylnaphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32		
Naphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	91-20-3	
2-Nitroaniline	ND ug/L		50.0	1	04/04/14 16:00	04/12/14 19:32	88-74-4	
3-Nitroaniline	ND ug/L		50.0	1	04/04/14 16:00	04/12/14 19:32	99-09-2	
4-Nitroaniline	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 19:32	100-01-6	
Nitrobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	98-95-3	
2-Nitrophenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	88-75-5	
4-Nitrophenol	ND ug/L		50.0	1	04/04/14 16:00	04/12/14 19:32	100-02-7	
N-Nitroso-di-n-propylamine	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	86-30-6	
Pentachlorophenol	ND ug/L		25.0	1	04/04/14 16:00	04/12/14 19:32	87-86-5	
Phenanthrene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	85-01-8	
Phenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	108-95-2	
Pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	95-94-3	
2,4,5-Trichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 19:32	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	40 %		21-110	1	04/04/14 16:00	04/12/14 19:32	4165-60-0	
2-Fluorobiphenyl (S)	37 %		27-110	1	04/04/14 16:00	04/12/14 19:32	321-60-8	
Terphenyl-d14 (S)	62 %		31-107	1	04/04/14 16:00	04/12/14 19:32	1718-51-0	
Phenol-d6 (S)	22 %		10-110	1	04/04/14 16:00	04/12/14 19:32	13127-88-3	
2-Fluorophenol (S)	23 %		12-110	1	04/04/14 16:00	04/12/14 19:32	367-12-4	
2,4,6-Tribromophenol (S)	43 %		27-110	1	04/04/14 16:00	04/12/14 19:32	118-79-6	
8260 MSV								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1	04/04/14 17:36	04/12/14 19:32	67-64-1	
Benzene	ND ug/L		5.0	1	04/04/14 17:36	04/12/14 19:32	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1	04/04/14 17:36	04/12/14 19:32	75-27-4	
Bromoform	ND ug/L		5.0	1	04/04/14 17:36	04/12/14 19:32	75-25-2	
Bromomethane	ND ug/L		10.0	1	04/04/14 17:36	04/12/14 19:32	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1	04/04/14 17:36	04/12/14 19:32	78-93-3	
Carbon disulfide	ND ug/L		10.0	1	04/04/14 17:36	04/12/14 19:32	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1	04/04/14 17:36	04/12/14 19:32	56-23-5	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-116		Lab ID: 92195702002	Collected: 04/01/14 14:55	Received: 04/02/14 14:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Chlorobenzene	ND	ug/L	5.0	1		04/04/14 17:36	108-90-7	
Chloroethane	ND	ug/L	10.0	1		04/04/14 17:36	75-00-3	
Chloroform	845	ug/L	50.0	10		04/07/14 17:03	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/04/14 17:36	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		04/04/14 17:36	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		04/04/14 17:36	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/04/14 17:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/04/14 17:36	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/04/14 17:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/04/14 17:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/04/14 17:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/04/14 17:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/04/14 17:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/04/14 17:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/04/14 17:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/04/14 17:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/04/14 17:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/04/14 17:36	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/04/14 17:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/04/14 17:36	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		04/04/14 17:36	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		04/04/14 17:36	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		04/04/14 17:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/04/14 17:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		04/04/14 17:36	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/04/14 17:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/04/14 17:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/04/14 17:36	127-18-4	
Toluene	ND	ug/L	5.0	1		04/04/14 17:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/04/14 17:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/04/14 17:36	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/04/14 17:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/04/14 17:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/04/14 17:36	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		04/04/14 17:36	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/04/14 17:36	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/04/14 17:36	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		04/04/14 17:36	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		04/04/14 17:36	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		04/04/14 17:36	2037-26-5	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-116		Lab ID: 92195702002	Collected: 04/01/14 14:55	Received: 04/02/14 14:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		04/08/14 16:49	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	110 %		50-150	1		04/08/14 16:49	17060-07-0	
Toluene-d8 (S)	95 %		50-150	1		04/08/14 16:49	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	23.6	mg/L	5.0	1		04/11/14 11:15		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	5.1	mg/L	1.0	1		04/10/14 19:05	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-118	Lab ID: 92195702003	Collected: 04/01/14 17:30	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 18:58	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 18:58	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 18:58	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 18:58	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		04/08/14 18:58	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	34.0 ug/L		5.0	1	04/15/14 13:09	04/15/14 15:27	7439-96-5	
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	83-32-9	
Acenaphthylene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	208-96-8	
Anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	120-12-7	
Atrazine	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 20:05	1912-24-9	
Benzaldehyde	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 20:05	100-52-7	
Benzo(a)anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	56-55-3	
Benzo(a)pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	50-32-8	
Benzo(b)fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	191-24-2	
Benzo(k)fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	207-08-9	
Biphenyl (Diphenyl)	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	92-52-4	
4-Bromophenylphenyl ether	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	101-55-3	
Butylbenzylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	85-68-7	
Caprolactam	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	105-60-2	
Carbazole	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	86-74-8	
4-Chloro-3-methylphenol	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 20:05	59-50-7	
4-Chloroaniline	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 20:05	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	108-60-1	
2-Chloronaphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	91-58-7	
2-Chlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	7005-72-3	
Chrysene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	53-70-3	
Dibenzofuran	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	132-64-9	
3,3'-Dichlorobenzidine	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 20:05	91-94-1	
2,4-Dichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	120-83-2	
Diethylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	84-66-2	
2,4-Dimethylphenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	105-67-9	
Dimethylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	131-11-3	
Di-n-butylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 20:05	534-52-1	
2,4-Dinitrophenol	ND ug/L		50.0	1	04/04/14 16:00	04/12/14 20:05	51-28-5	
2,4-Dinitrotoluene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	121-14-2	
2,6-Dinitrotoluene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	606-20-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-118	Lab ID: 92195702003	Collected: 04/01/14 17:30	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Di-n-octylphthalate	20.0 ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	117-84-0	
Diphenyl ether (Phenyl ether)	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 20:05	101-84-8	
bis(2-Ethylhexyl)phthalate	6.8 ug/L		6.0	1	04/04/14 16:00	04/12/14 20:05	117-81-7	
Fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	206-44-0	
Fluorene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	87-68-3	
Hexachlorobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	77-47-4	
Hexachloroethane	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	193-39-5	
Isophorone	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	78-59-1	
2-Methylnaphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05		
Naphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	91-20-3	
2-Nitroaniline	ND ug/L		50.0	1	04/04/14 16:00	04/12/14 20:05	88-74-4	
3-Nitroaniline	ND ug/L		50.0	1	04/04/14 16:00	04/12/14 20:05	99-09-2	
4-Nitroaniline	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 20:05	100-01-6	
Nitrobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	98-95-3	
2-Nitrophenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	88-75-5	
4-Nitrophenol	ND ug/L		50.0	1	04/04/14 16:00	04/12/14 20:05	100-02-7	
N-Nitroso-di-n-propylamine	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	86-30-6	
Pentachlorophenol	ND ug/L		25.0	1	04/04/14 16:00	04/12/14 20:05	87-86-5	
Phenanthrene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	85-01-8	
Phenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	108-95-2	
Pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	95-94-3	
2,4,5-Trichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:05	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	83 %		21-110	1	04/04/14 16:00	04/12/14 20:05	4165-60-0	
2-Fluorobiphenyl (S)	84 %		27-110	1	04/04/14 16:00	04/12/14 20:05	321-60-8	
Terphenyl-d14 (S)	73 %		31-107	1	04/04/14 16:00	04/12/14 20:05	1718-51-0	
Phenol-d6 (S)	37 %		10-110	1	04/04/14 16:00	04/12/14 20:05	13127-88-3	
2-Fluorophenol (S)	46 %		12-110	1	04/04/14 16:00	04/12/14 20:05	367-12-4	
2,4,6-Tribromophenol (S)	90 %		27-110	1	04/04/14 16:00	04/12/14 20:05	118-79-6	
8260 MSV								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1	04/04/14 17:52	04/12/14 20:05	67-64-1	
Benzene	ND ug/L		5.0	1	04/04/14 17:52	04/12/14 20:05	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1	04/04/14 17:52	04/12/14 20:05	75-27-4	
Bromoform	ND ug/L		5.0	1	04/04/14 17:52	04/12/14 20:05	75-25-2	
Bromomethane	ND ug/L		10.0	1	04/04/14 17:52	04/12/14 20:05	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1	04/04/14 17:52	04/12/14 20:05	78-93-3	
Carbon disulfide	ND ug/L		10.0	1	04/04/14 17:52	04/12/14 20:05	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1	04/04/14 17:52	04/12/14 20:05	56-23-5	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-118	Lab ID: 92195702003	Collected: 04/01/14 17:30	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Chlorobenzene	ND	ug/L	5.0	1		04/04/14 17:52	108-90-7	
Chloroethane	ND	ug/L	10.0	1		04/04/14 17:52	75-00-3	
Chloroform	697	ug/L	25.0	5		04/07/14 16:16	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/04/14 17:52	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		04/04/14 17:52	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		04/04/14 17:52	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/04/14 17:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/04/14 17:52	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/04/14 17:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/04/14 17:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/04/14 17:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/04/14 17:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/04/14 17:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/04/14 17:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/04/14 17:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/04/14 17:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/04/14 17:52	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/04/14 17:52	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/04/14 17:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/04/14 17:52	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		04/04/14 17:52	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		04/04/14 17:52	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		04/04/14 17:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/04/14 17:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		04/04/14 17:52	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/04/14 17:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/04/14 17:52	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/04/14 17:52	127-18-4	
Toluene	ND	ug/L	5.0	1		04/04/14 17:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/04/14 17:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/04/14 17:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/04/14 17:52	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/04/14 17:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/04/14 17:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/04/14 17:52	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		04/04/14 17:52	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/04/14 17:52	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/04/14 17:52	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103 %		70-130	1		04/04/14 17:52	460-00-4	
1,2-Dichloroethane-d4 (S)	104 %		70-130	1		04/04/14 17:52	17060-07-0	
Toluene-d8 (S)	101 %		70-130	1		04/04/14 17:52	2037-26-5	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-118		Lab ID: 92195702003	Collected: 04/01/14 17:30	Received: 04/02/14 14:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		04/08/14 17:09	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	107 %		50-150	1		04/08/14 17:09	17060-07-0	
Toluene-d8 (S)	95 %		50-150	1		04/08/14 17:09	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	11.7	mg/L	5.0	1		04/11/14 11:26		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	3.3	mg/L	1.0	1		04/10/14 19:05	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: RW-119	Lab ID: 92195702004	Collected: 04/01/14 18:25	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 19:26	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 19:26	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 19:26	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 19:26	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		04/08/14 19:26	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	8.6 ug/L		5.0	1	04/15/14 13:09	04/15/14 15:39	7439-96-5	
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	83-32-9	
Acenaphthylene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	208-96-8	
Anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	120-12-7	
Atrazine	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 20:39	1912-24-9	
Benzaldehyde	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 20:39	100-52-7	
Benzo(a)anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	56-55-3	
Benzo(a)pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	50-32-8	
Benzo(b)fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	191-24-2	
Benzo(k)fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	207-08-9	
Biphenyl (Diphenyl)	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	92-52-4	
4-Bromophenylphenyl ether	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	101-55-3	
Butylbenzylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	85-68-7	
Caprolactam	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	105-60-2	
Carbazole	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	86-74-8	
4-Chloro-3-methylphenol	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 20:39	59-50-7	
4-Chloroaniline	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 20:39	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	108-60-1	
2-Chloronaphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	91-58-7	
2-Chlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	7005-72-3	
Chrysene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	53-70-3	
Dibenzofuran	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	132-64-9	
3,3'-Dichlorobenzidine	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 20:39	91-94-1	
2,4-Dichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	120-83-2	
Diethylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	84-66-2	
2,4-Dimethylphenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	105-67-9	
Dimethylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	131-11-3	
Di-n-butylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 20:39	534-52-1	
2,4-Dinitrophenol	ND ug/L		50.0	1	04/04/14 16:00	04/12/14 20:39	51-28-5	
2,4-Dinitrotoluene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	121-14-2	
2,6-Dinitrotoluene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	606-20-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: RW-119	Lab ID: 92195702004	Collected: 04/01/14 18:25	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Di-n-octylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	117-84-0	
Diphenyl ether (Phenyl ether)	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 20:39	101-84-8	
bis(2-Ethylhexyl)phthalate	ND ug/L		6.0	1	04/04/14 16:00	04/12/14 20:39	117-81-7	
Fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	206-44-0	
Fluorene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	87-68-3	
Hexachlorobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	77-47-4	
Hexachloroethane	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	193-39-5	
Isophorone	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	78-59-1	
2-Methylnaphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39		
Naphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	91-20-3	
2-Nitroaniline	ND ug/L		50.0	1	04/04/14 16:00	04/12/14 20:39	88-74-4	
3-Nitroaniline	ND ug/L		50.0	1	04/04/14 16:00	04/12/14 20:39	99-09-2	
4-Nitroaniline	ND ug/L		20.0	1	04/04/14 16:00	04/12/14 20:39	100-01-6	
Nitrobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	98-95-3	
2-Nitrophenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	88-75-5	
4-Nitrophenol	ND ug/L		50.0	1	04/04/14 16:00	04/12/14 20:39	100-02-7	
N-Nitroso-di-n-propylamine	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	86-30-6	
Pentachlorophenol	ND ug/L		25.0	1	04/04/14 16:00	04/12/14 20:39	87-86-5	
Phenanthrene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	85-01-8	
Phenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	108-95-2	
Pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	95-94-3	
2,4,5-Trichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/12/14 20:39	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	71 %		21-110	1	04/04/14 16:00	04/12/14 20:39	4165-60-0	
2-Fluorobiphenyl (S)	71 %		27-110	1	04/04/14 16:00	04/12/14 20:39	321-60-8	
Terphenyl-d14 (S)	62 %		31-107	1	04/04/14 16:00	04/12/14 20:39	1718-51-0	
Phenol-d6 (S)	26 %		10-110	1	04/04/14 16:00	04/12/14 20:39	13127-88-3	
2-Fluorophenol (S)	37 %		12-110	1	04/04/14 16:00	04/12/14 20:39	367-12-4	
2,4,6-Tribromophenol (S)	75 %		27-110	1	04/04/14 16:00	04/12/14 20:39	118-79-6	
8260 MSV								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		04/05/14 05:35	67-64-1	
Benzene	ND ug/L		5.0	1		04/05/14 05:35	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/05/14 05:35	75-27-4	
Bromoform	ND ug/L		5.0	1		04/05/14 05:35	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/05/14 05:35	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/05/14 05:35	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/05/14 05:35	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/05/14 05:35	56-23-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: RW-119	Lab ID: 92195702004	Collected: 04/01/14 18:25	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Chlorobenzene	ND	ug/L	5.0	1		04/05/14 05:35	108-90-7	
Chloroethane	ND	ug/L	10.0	1		04/05/14 05:35	75-00-3	
Chloroform	214	ug/L	10.0	2		04/07/14 15:29	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/05/14 05:35	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		04/05/14 05:35	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		04/05/14 05:35	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/05/14 05:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/05/14 05:35	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/05/14 05:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/05/14 05:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/05/14 05:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/05/14 05:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/05/14 05:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/05/14 05:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/05/14 05:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/05/14 05:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/05/14 05:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/05/14 05:35	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/05/14 05:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/05/14 05:35	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/05/14 05:35	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/05/14 05:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/05/14 05:35	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		04/05/14 05:35	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		04/05/14 05:35	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		04/05/14 05:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/05/14 05:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		04/05/14 05:35	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/05/14 05:35	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/05/14 05:35	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/05/14 05:35	127-18-4	
Toluene	ND	ug/L	5.0	1		04/05/14 05:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/05/14 05:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/05/14 05:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/05/14 05:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/05/14 05:35	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/05/14 05:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/05/14 05:35	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/05/14 05:35	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		04/05/14 05:35	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/05/14 05:35	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/05/14 05:35	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102 %		70-130	1		04/05/14 05:35	460-00-4	
1,2-Dichloroethane-d4 (S)	104 %		70-130	1		04/05/14 05:35	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		04/05/14 05:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: RW-119		Lab ID: 92195702004	Collected: 04/01/14 18:25	Received: 04/02/14 14:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	4.8 ug/L		2.0	1		04/08/14 17:30	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	112 %		50-150	1		04/08/14 17:30	17060-07-0	
Toluene-d8 (S)	95 %		50-150	1		04/08/14 17:30	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	71.7 mg/L		5.0	1		04/11/14 11:35		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	3.0 mg/L		1.0	1		04/16/14 16:24	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-114	Lab ID: 92195702005	Collected: 04/02/14 09:25	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 21:30	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 21:30	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 21:30	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 21:30	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		04/08/14 21:30	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	15.8 ug/L		5.0	1	04/15/14 13:09	04/15/14 15:42	7439-96-5	
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	83-32-9	
Acenaphthylene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	208-96-8	
Anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	120-12-7	
Atrazine	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 13:08	1912-24-9	
Benzaldehyde	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 13:08	100-52-7	
Benzo(a)anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	56-55-3	
Benzo(a)pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	50-32-8	
Benzo(b)fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	191-24-2	
Benzo(k)fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	207-08-9	
Biphenyl (Diphenyl)	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	92-52-4	
4-Bromophenylphenyl ether	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	101-55-3	
Butylbenzylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	85-68-7	
Caprolactam	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	105-60-2	
Carbazole	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	86-74-8	
4-Chloro-3-methylphenol	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 13:08	59-50-7	
4-Chloroaniline	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 13:08	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	108-60-1	
2-Chloronaphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	91-58-7	
2-Chlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	7005-72-3	
Chrysene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	53-70-3	
Dibenzofuran	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	132-64-9	
3,3'-Dichlorobenzidine	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 13:08	91-94-1	
2,4-Dichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	120-83-2	
Diethylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	84-66-2	
2,4-Dimethylphenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	105-67-9	
Dimethylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	131-11-3	
Di-n-butylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 13:08	534-52-1	
2,4-Dinitrophenol	ND ug/L		50.0	1	04/04/14 16:00	04/14/14 13:08	51-28-5	
2,4-Dinitrotoluene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	121-14-2	
2,6-Dinitrotoluene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	606-20-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-114	Lab ID: 92195702005	Collected: 04/02/14 09:25	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Di-n-octylphthalate	12.7 ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	117-84-0	
Diphenyl ether (Phenyl ether)	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 13:08	101-84-8	
bis(2-Ethylhexyl)phthalate	ND ug/L		6.0	1	04/04/14 16:00	04/14/14 13:08	117-81-7	
Fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	206-44-0	
Fluorene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	87-68-3	
Hexachlorobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	77-47-4	
Hexachloroethane	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	193-39-5	
Isophorone	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	78-59-1	
2-Methylnaphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08		
Naphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	91-20-3	
2-Nitroaniline	ND ug/L		50.0	1	04/04/14 16:00	04/14/14 13:08	88-74-4	
3-Nitroaniline	ND ug/L		50.0	1	04/04/14 16:00	04/14/14 13:08	99-09-2	
4-Nitroaniline	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 13:08	100-01-6	
Nitrobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	98-95-3	
2-Nitrophenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	88-75-5	
4-Nitrophenol	ND ug/L		50.0	1	04/04/14 16:00	04/14/14 13:08	100-02-7	
N-Nitroso-di-n-propylamine	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	86-30-6	
Pentachlorophenol	ND ug/L		25.0	1	04/04/14 16:00	04/14/14 13:08	87-86-5	
Phenanthrene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	85-01-8	
Phenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	108-95-2	
Pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	95-94-3	
2,4,5-Trichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:08	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	63 %		21-110	1	04/04/14 16:00	04/14/14 13:08	4165-60-0	
2-Fluorobiphenyl (S)	62 %		27-110	1	04/04/14 16:00	04/14/14 13:08	321-60-8	
Terphenyl-d14 (S)	90 %		31-107	1	04/04/14 16:00	04/14/14 13:08	1718-51-0	
Phenol-d6 (S)	21 %		10-110	1	04/04/14 16:00	04/14/14 13:08	13127-88-3	
2-Fluorophenol (S)	31 %		12-110	1	04/04/14 16:00	04/14/14 13:08	367-12-4	
2,4,6-Tribromophenol (S)	82 %		27-110	1	04/04/14 16:00	04/14/14 13:08	118-79-6	
8260 MSV								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		04/07/14 21:30	67-64-1	
Benzene	ND ug/L		5.0	1		04/07/14 21:30	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/07/14 21:30	75-27-4	
Bromoform	ND ug/L		5.0	1		04/07/14 21:30	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/07/14 21:30	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/07/14 21:30	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/07/14 21:30	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/07/14 21:30	56-23-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-114	Lab ID: 92195702005	Collected: 04/02/14 09:25	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Chlorobenzene	ND	ug/L	5.0	1		04/07/14 21:30	108-90-7	
Chloroethane	ND	ug/L	10.0	1		04/07/14 21:30	75-00-3	
Chloroform	1660	ug/L	100	20		04/08/14 14:20	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/07/14 21:30	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		04/07/14 21:30	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		04/07/14 21:30	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/07/14 21:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/07/14 21:30	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/07/14 21:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/07/14 21:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/07/14 21:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/07/14 21:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/07/14 21:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/07/14 21:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/07/14 21:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/07/14 21:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/07/14 21:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/07/14 21:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/07/14 21:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/07/14 21:30	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/07/14 21:30	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/07/14 21:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/07/14 21:30	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		04/07/14 21:30	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		04/07/14 21:30	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		04/07/14 21:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/07/14 21:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		04/07/14 21:30	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/07/14 21:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		04/07/14 21:30	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/07/14 21:30	127-18-4	
Toluene	ND	ug/L	5.0	1		04/07/14 21:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/07/14 21:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/07/14 21:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/07/14 21:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/07/14 21:30	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/07/14 21:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/07/14 21:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/07/14 21:30	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		04/07/14 21:30	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/07/14 21:30	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/07/14 21:30	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104 %		70-130	1		04/07/14 21:30	460-00-4	
1,2-Dichloroethane-d4 (S)	106 %		70-130	1		04/07/14 21:30	17060-07-0	
Toluene-d8 (S)	103 %		70-130	1		04/07/14 21:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-114		Lab ID: 92195702005	Collected: 04/02/14 09:25	Received: 04/02/14 14:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		04/08/14 17:51	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	108 %		50-150	1		04/08/14 17:51	17060-07-0	
Toluene-d8 (S)	95 %		50-150	1		04/08/14 17:51	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	16.3	mg/L	5.0	1		04/11/14 11:45		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	7.2	mg/L	1.0	1		04/16/14 16:26	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-402	Lab ID: 92195702006	Collected: 04/02/14 09:55	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 21:58	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 21:58	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 21:58	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 21:58	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		04/08/14 21:58	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	15.0 ug/L		5.0	1	04/15/14 13:09	04/15/14 15:45	7439-96-5	
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	83-32-9	
Acenaphthylene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	208-96-8	
Anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	120-12-7	
Atrazine	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 13:42	1912-24-9	
Benzaldehyde	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 13:42	100-52-7	
Benzo(a)anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	56-55-3	
Benzo(a)pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	50-32-8	
Benzo(b)fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	191-24-2	
Benzo(k)fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	207-08-9	
Biphenyl (Diphenyl)	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	92-52-4	
4-Bromophenylphenyl ether	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	101-55-3	
Butylbenzylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	85-68-7	
Caprolactam	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	105-60-2	
Carbazole	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	86-74-8	
4-Chloro-3-methylphenol	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 13:42	59-50-7	
4-Chloroaniline	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 13:42	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	108-60-1	
2-Chloronaphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	91-58-7	
2-Chlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	7005-72-3	
Chrysene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	53-70-3	
Dibenzofuran	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	132-64-9	
3,3'-Dichlorobenzidine	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 13:42	91-94-1	
2,4-Dichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	120-83-2	
Diethylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	84-66-2	
2,4-Dimethylphenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	105-67-9	
Dimethylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	131-11-3	
Di-n-butylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 13:42	534-52-1	
2,4-Dinitrophenol	ND ug/L		50.0	1	04/04/14 16:00	04/14/14 13:42	51-28-5	
2,4-Dinitrotoluene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	121-14-2	
2,6-Dinitrotoluene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	606-20-2	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-402	Lab ID: 92195702006	Collected: 04/02/14 09:55	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Di-n-octylphthalate	12.9 ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	117-84-0	
Diphenyl ether (Phenyl ether)	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 13:42	101-84-8	
bis(2-Ethylhexyl)phthalate	ND ug/L		6.0	1	04/04/14 16:00	04/14/14 13:42	117-81-7	
Fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	206-44-0	
Fluorene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	87-68-3	
Hexachlorobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	77-47-4	
Hexachloroethane	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	193-39-5	
Isophorone	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	78-59-1	
2-Methylnaphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42		
Naphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	91-20-3	
2-Nitroaniline	ND ug/L		50.0	1	04/04/14 16:00	04/14/14 13:42	88-74-4	
3-Nitroaniline	ND ug/L		50.0	1	04/04/14 16:00	04/14/14 13:42	99-09-2	
4-Nitroaniline	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 13:42	100-01-6	
Nitrobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	98-95-3	
2-Nitrophenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	88-75-5	
4-Nitrophenol	ND ug/L		50.0	1	04/04/14 16:00	04/14/14 13:42	100-02-7	
N-Nitroso-di-n-propylamine	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	86-30-6	
Pentachlorophenol	ND ug/L		25.0	1	04/04/14 16:00	04/14/14 13:42	87-86-5	
Phenanthrene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	85-01-8	
Phenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	108-95-2	
Pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	95-94-3	
2,4,5-Trichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 13:42	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	76 %		21-110	1	04/04/14 16:00	04/14/14 13:42	4165-60-0	
2-Fluorobiphenyl (S)	79 %		27-110	1	04/04/14 16:00	04/14/14 13:42	321-60-8	
Terphenyl-d14 (S)	96 %		31-107	1	04/04/14 16:00	04/14/14 13:42	1718-51-0	
Phenol-d6 (S)	30 %		10-110	1	04/04/14 16:00	04/14/14 13:42	13127-88-3	
2-Fluorophenol (S)	39 %		12-110	1	04/04/14 16:00	04/14/14 13:42	367-12-4	
2,4,6-Tribromophenol (S)	81 %		27-110	1	04/04/14 16:00	04/14/14 13:42	118-79-6	
8260 MSV								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		04/07/14 21:46	67-64-1	
Benzene	ND ug/L		5.0	1		04/07/14 21:46	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/07/14 21:46	75-27-4	
Bromoform	ND ug/L		5.0	1		04/07/14 21:46	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/07/14 21:46	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/07/14 21:46	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/07/14 21:46	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/07/14 21:46	56-23-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-402	Lab ID: 92195702006	Collected: 04/02/14 09:55	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Chlorobenzene	ND ug/L		5.0	1		04/07/14 21:46	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/07/14 21:46	75-00-3	
Chloroform	1490 ug/L		100	20		04/08/14 14:37	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/07/14 21:46	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/07/14 21:46	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/07/14 21:46	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/07/14 21:46	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/07/14 21:46	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/07/14 21:46	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/07/14 21:46	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/07/14 21:46	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/07/14 21:46	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/07/14 21:46	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/07/14 21:46	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/07/14 21:46	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		04/07/14 21:46	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/07/14 21:46	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/07/14 21:46	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/07/14 21:46	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/07/14 21:46	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/07/14 21:46	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/07/14 21:46	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/07/14 21:46	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/07/14 21:46	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/07/14 21:46	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/07/14 21:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/07/14 21:46	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/07/14 21:46	1634-04-4	
Styrene	ND ug/L		5.0	1		04/07/14 21:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		04/07/14 21:46	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		04/07/14 21:46	127-18-4	
Toluene	ND ug/L		5.0	1		04/07/14 21:46	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		04/07/14 21:46	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		04/07/14 21:46	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		04/07/14 21:46	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		04/07/14 21:46	79-00-5	
Trichloroethene	ND ug/L		5.0	1		04/07/14 21:46	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		04/07/14 21:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		04/07/14 21:46	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		04/07/14 21:46	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		04/07/14 21:46	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		04/07/14 21:46	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104 %		70-130	1		04/07/14 21:46	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		70-130	1		04/07/14 21:46	17060-07-0	
Toluene-d8 (S)	103 %		70-130	1		04/07/14 21:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-402		Lab ID: 92195702006	Collected: 04/02/14 09:55	Received: 04/02/14 14:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		04/08/14 18:11	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	109 %		50-150	1		04/08/14 18:11	17060-07-0	
Toluene-d8 (S)	95 %		50-150	1		04/08/14 18:11	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	15.1	mg/L	5.0	1		04/11/14 11:54		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	7.2	mg/L	1.0	1		04/16/14 16:27	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: RW-115	Lab ID: 92195702007	Collected: 04/02/14 12:00	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 22:26	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 22:26	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 22:26	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 22:26	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		04/08/14 22:26	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	12.5 ug/L		5.0	1	04/15/14 13:09	04/15/14 15:49	7439-96-5	
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	83-32-9	
Acenaphthylene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	208-96-8	
Anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	120-12-7	
Atrazine	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 14:17	1912-24-9	
Benzaldehyde	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 14:17	100-52-7	
Benzo(a)anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	56-55-3	
Benzo(a)pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	50-32-8	
Benzo(b)fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	191-24-2	
Benzo(k)fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	207-08-9	
Biphenyl (Diphenyl)	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	92-52-4	
4-Bromophenylphenyl ether	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	101-55-3	
Butylbenzylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	85-68-7	
Caprolactam	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	105-60-2	
Carbazole	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	86-74-8	
4-Chloro-3-methylphenol	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 14:17	59-50-7	
4-Chloroaniline	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 14:17	106-47-8	
bis(2-Chloroethoxy)methane	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	108-60-1	
2-Chloronaphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	91-58-7	
2-Chlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	7005-72-3	
Chrysene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	53-70-3	
Dibenzofuran	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	132-64-9	
3,3'-Dichlorobenzidine	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 14:17	91-94-1	
2,4-Dichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	120-83-2	
Diethylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	84-66-2	
2,4-Dimethylphenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	105-67-9	
Dimethylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	131-11-3	
Di-n-butylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 14:17	534-52-1	
2,4-Dinitrophenol	ND ug/L		50.0	1	04/04/14 16:00	04/14/14 14:17	51-28-5	
2,4-Dinitrotoluene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	121-14-2	
2,6-Dinitrotoluene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	606-20-2	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: RW-115 **Lab ID: 92195702007** Collected: 04/02/14 12:00 Received: 04/02/14 14:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510

Di-n-octylphthalate	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	117-84-0	
Diphenyl ether (Phenyl ether)	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 14:17	101-84-8	
bis(2-Ethylhexyl)phthalate	ND ug/L		6.0	1	04/04/14 16:00	04/14/14 14:17	117-81-7	
Fluoranthene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	206-44-0	
Fluorene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	87-68-3	
Hexachlorobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	77-47-4	
Hexachloroethane	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	193-39-5	
Isophorone	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	78-59-1	
2-Methylnaphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17		
Naphthalene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	91-20-3	
2-Nitroaniline	ND ug/L		50.0	1	04/04/14 16:00	04/14/14 14:17	88-74-4	
3-Nitroaniline	ND ug/L		50.0	1	04/04/14 16:00	04/14/14 14:17	99-09-2	
4-Nitroaniline	ND ug/L		20.0	1	04/04/14 16:00	04/14/14 14:17	100-01-6	
Nitrobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	98-95-3	
2-Nitrophenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	88-75-5	
4-Nitrophenol	ND ug/L		50.0	1	04/04/14 16:00	04/14/14 14:17	100-02-7	
N-Nitroso-di-n-propylamine	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	86-30-6	
Pentachlorophenol	ND ug/L		25.0	1	04/04/14 16:00	04/14/14 14:17	87-86-5	
Phenanthrene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	85-01-8	
Phenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	108-95-2	
Pyrene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	95-94-3	
2,4,5-Trichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		10.0	1	04/04/14 16:00	04/14/14 14:17	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	63 %		21-110	1	04/04/14 16:00	04/14/14 14:17	4165-60-0	
2-Fluorobiphenyl (S)	62 %		27-110	1	04/04/14 16:00	04/14/14 14:17	321-60-8	
Terphenyl-d14 (S)	73 %		31-107	1	04/04/14 16:00	04/14/14 14:17	1718-51-0	
Phenol-d6 (S)	24 %		10-110	1	04/04/14 16:00	04/14/14 14:17	13127-88-3	
2-Fluorophenol (S)	33 %		12-110	1	04/04/14 16:00	04/14/14 14:17	367-12-4	
2,4,6-Tribromophenol (S)	70 %		27-110	1	04/04/14 16:00	04/14/14 14:17	118-79-6	

8260 MSV Analytical Method: EPA 8260

Acetone	ND ug/L		25.0	1		04/08/14 02:27	67-64-1	
Benzene	ND ug/L		5.0	1		04/08/14 02:27	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/08/14 02:27	75-27-4	
Bromoform	ND ug/L		5.0	1		04/08/14 02:27	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/08/14 02:27	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/08/14 02:27	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/08/14 02:27	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/08/14 02:27	56-23-5	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: RW-115	Lab ID: 92195702007	Collected: 04/02/14 12:00	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Chlorobenzene	ND ug/L		5.0	1		04/08/14 02:27	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/08/14 02:27	75-00-3	
Chloroform	2570 ug/L		125	25		04/09/14 13:06	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/08/14 02:27	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/08/14 02:27	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/08/14 02:27	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/08/14 02:27	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/08/14 02:27	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 02:27	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 02:27	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 02:27	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/08/14 02:27	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/08/14 02:27	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/08/14 02:27	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/08/14 02:27	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 02:27	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 02:27	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/08/14 02:27	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 02:27	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 02:27	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/08/14 02:27	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/08/14 02:27	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/08/14 02:27	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/08/14 02:27	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/08/14 02:27	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/08/14 02:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/08/14 02:27	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/08/14 02:27	1634-04-4	
Styrene	ND ug/L		5.0	1		04/08/14 02:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		04/08/14 02:27	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		04/08/14 02:27	127-18-4	
Toluene	ND ug/L		5.0	1		04/08/14 02:27	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		04/08/14 02:27	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		04/08/14 02:27	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		04/08/14 02:27	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		04/08/14 02:27	79-00-5	
Trichloroethene	ND ug/L		5.0	1		04/08/14 02:27	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		04/08/14 02:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		04/08/14 02:27	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		04/08/14 02:27	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		04/08/14 02:27	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		04/08/14 02:27	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98 %		70-130	1		04/08/14 02:27	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		04/08/14 02:27	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		04/08/14 02:27	2037-26-5	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: RW-115		Lab ID: 92195702007	Collected: 04/02/14 12:00	Received: 04/02/14 14:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV SIM		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		04/08/14 18:32	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	112 %		50-150	1		04/08/14 18:32	17060-07-0	
Toluene-d8 (S)	94 %		50-150	1		04/08/14 18:32	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	33.4	mg/L	5.0	1		04/11/14 12:04		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	5.9	mg/L	1.0	1		04/16/14 16:29	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-401		Lab ID: 92195702008	Collected: 04/02/14 08:30	Received: 04/02/14 14:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 22:55	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 22:55	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 22:55	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 22:55	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		04/08/14 22:55	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	117 ug/L		5.0	1	04/15/14 13:09	04/15/14 15:52	7439-96-5	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/08/14 02:43	67-64-1	
Benzene	ND ug/L		5.0	1		04/08/14 02:43	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/08/14 02:43	75-27-4	
Bromoform	ND ug/L		5.0	1		04/08/14 02:43	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/08/14 02:43	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/08/14 02:43	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/08/14 02:43	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/08/14 02:43	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/08/14 02:43	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/08/14 02:43	75-00-3	
Chloroform	ND ug/L		5.0	1		04/08/14 02:43	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/08/14 02:43	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/08/14 02:43	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/08/14 02:43	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/08/14 02:43	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/08/14 02:43	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 02:43	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 02:43	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 02:43	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/08/14 02:43	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/08/14 02:43	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/08/14 02:43	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/08/14 02:43	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 02:43	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 02:43	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/08/14 02:43	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 02:43	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 02:43	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/08/14 02:43	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/08/14 02:43	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/08/14 02:43	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/08/14 02:43	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/08/14 02:43	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/08/14 02:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/08/14 02:43	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/08/14 02:43	1634-04-4	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-401	Lab ID: 92195702008	Collected: 04/02/14 08:30	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Styrene	ND	ug/L	5.0	1		04/08/14 02:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/14 02:43	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/14 02:43	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/14 02:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/08/14 02:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/08/14 02:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/14 02:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/14 02:43	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/08/14 02:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		04/08/14 02:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/08/14 02:43	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		04/08/14 02:43	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		04/08/14 02:43	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/08/14 02:43	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98 %		70-130	1		04/08/14 02:43	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	1		04/08/14 02:43	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		04/08/14 02:43	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	12.6	mg/L	5.0	1		04/11/14 12:15		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	5.1	mg/L	1.0	1		04/16/14 16:30	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-132		Lab ID: 92195702009	Collected: 04/02/14 10:15	Received: 04/02/14 14:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	1.1 mg/L		1.0	1		04/08/14 23:23	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 23:23	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 23:23	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 23:23	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		04/08/14 23:23	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	116 ug/L		5.0	1	04/15/14 13:09	04/15/14 15:55	7439-96-5	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/08/14 02:58	67-64-1	
Benzene	ND ug/L		5.0	1		04/08/14 02:58	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/08/14 02:58	75-27-4	
Bromoform	ND ug/L		5.0	1		04/08/14 02:58	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/08/14 02:58	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/08/14 02:58	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/08/14 02:58	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/08/14 02:58	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/08/14 02:58	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/08/14 02:58	75-00-3	
Chloroform	ND ug/L		5.0	1		04/08/14 02:58	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/08/14 02:58	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/08/14 02:58	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/08/14 02:58	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/08/14 02:58	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/08/14 02:58	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 02:58	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 02:58	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 02:58	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/08/14 02:58	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/08/14 02:58	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/08/14 02:58	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/08/14 02:58	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 02:58	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 02:58	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/08/14 02:58	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 02:58	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 02:58	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/08/14 02:58	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/08/14 02:58	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/08/14 02:58	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/08/14 02:58	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/08/14 02:58	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/08/14 02:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/08/14 02:58	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/08/14 02:58	1634-04-4	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-132	Lab ID: 92195702009	Collected: 04/02/14 10:15	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Styrene	ND ug/L		5.0	1		04/08/14 02:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		04/08/14 02:58	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		04/08/14 02:58	127-18-4	
Toluene	ND ug/L		5.0	1		04/08/14 02:58	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		04/08/14 02:58	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		04/08/14 02:58	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		04/08/14 02:58	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		04/08/14 02:58	79-00-5	
Trichloroethene	ND ug/L		5.0	1		04/08/14 02:58	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		04/08/14 02:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		04/08/14 02:58	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		04/08/14 02:58	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		04/08/14 02:58	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		04/08/14 02:58	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101 %		70-130	1		04/08/14 02:58	460-00-4	
1,2-Dichloroethane-d4 (S)	97 %		70-130	1		04/08/14 02:58	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		04/08/14 02:58	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	13.1 mg/L		5.0	1		04/11/14 12:24		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	5.2 mg/L		1.0	1		04/16/14 16:30	16887-00-6	

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Sample: MW-134	Lab ID: 92195702010	Collected: 04/02/14 11:40	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon, GWD		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 23:51	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 23:51	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 23:51	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		04/08/14 23:51	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		04/08/14 23:51	7440-44-0	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	53.8 ug/L		5.0	1	04/15/14 13:09	04/15/14 15:58	7439-96-5	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		04/08/14 03:14	67-64-1	
Benzene	ND ug/L		5.0	1		04/08/14 03:14	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		04/08/14 03:14	75-27-4	
Bromoform	ND ug/L		5.0	1		04/08/14 03:14	75-25-2	
Bromomethane	ND ug/L		10.0	1		04/08/14 03:14	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/08/14 03:14	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		04/08/14 03:14	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		04/08/14 03:14	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		04/08/14 03:14	108-90-7	
Chloroethane	ND ug/L		10.0	1		04/08/14 03:14	75-00-3	
Chloroform	5290 ug/L		250	50		04/09/14 13:23	67-66-3	
Chloromethane	ND ug/L		5.0	1		04/08/14 03:14	74-87-3	
Cyclohexane	ND ug/L		5.0	1		04/08/14 03:14	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		04/08/14 03:14	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		04/08/14 03:14	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		04/08/14 03:14	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 03:14	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 03:14	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		04/08/14 03:14	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		04/08/14 03:14	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		04/08/14 03:14	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		04/08/14 03:14	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		04/08/14 03:14	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 03:14	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		04/08/14 03:14	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		04/08/14 03:14	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 03:14	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		04/08/14 03:14	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		04/08/14 03:14	100-41-4	
2-Hexanone	ND ug/L		10.0	1		04/08/14 03:14	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		04/08/14 03:14	98-82-8	
Methyl acetate	ND ug/L		10.0	1		04/08/14 03:14	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		04/08/14 03:14	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		04/08/14 03:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/08/14 03:14	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		04/08/14 03:14	1634-04-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AURIGA, SPARTANBURG SC
Pace Project No.: 92195702

Sample: MW-134	Lab ID: 92195702010	Collected: 04/02/14 11:40	Received: 04/02/14 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Styrene	ND ug/L		5.0	1		04/08/14 03:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		04/08/14 03:14	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		04/08/14 03:14	127-18-4	
Toluene	ND ug/L		5.0	1		04/08/14 03:14	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		04/08/14 03:14	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		04/08/14 03:14	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		04/08/14 03:14	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		04/08/14 03:14	79-00-5	
Trichloroethene	ND ug/L		5.0	1		04/08/14 03:14	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		04/08/14 03:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		04/08/14 03:14	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		04/08/14 03:14	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		04/08/14 03:14	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		04/08/14 03:14	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98 %		70-130	1		04/08/14 03:14	460-00-4	
1,2-Dichloroethane-d4 (S)	97 %		70-130	1		04/08/14 03:14	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		04/08/14 03:14	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	8.3 mg/L		5.0	1		04/11/14 12:52		
4500 Chloride		Analytical Method: SM 4500-Cl-E						
Chloride	2.3 mg/L		1.0	1		04/16/14 16:31	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

QC Batch: GWD/1157

Analysis Method: EPA 9060A

QC Batch Method: EPA 9060A

Analysis Description: 9060 TOC, GWD

Associated Lab Samples: 92195702002, 92195702003, 92195702004

METHOD BLANK: 1173364

Matrix: Water

Associated Lab Samples: 92195702002, 92195702003, 92195702004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	ND	1.0	04/08/14 13:41	
Total Organic Carbon	mg/L	ND	1.0	04/08/14 13:41	
Total Organic Carbon	mg/L	ND	1.0	04/08/14 13:41	
Total Organic Carbon	mg/L	ND	1.0	04/08/14 13:41	
Total Organic Carbon	mg/L	ND	1.0	04/08/14 13:41	

LABORATORY CONTROL SAMPLE: 1173365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	50	48.0	96	75-125	
Total Organic Carbon	mg/L	50	48.2	96	75-125	
Total Organic Carbon	mg/L	50	47.7	95	75-125	
Total Organic Carbon	mg/L	50	47.8	96	75-125	
Total Organic Carbon	mg/L	50	48.4	97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1173482 1173483

Parameter	Units	92195574005		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.							
Mean Total Organic Carbon	mg/L	ND	50	50	50	49.5	49.8	97	98	75-125	1	
Total Organic Carbon	mg/L					48.9	49.7				2	
Total Organic Carbon	mg/L					49.2	49.9				1	
Total Organic Carbon	mg/L					50.0	49.9				0	
Total Organic Carbon	mg/L					49.7	49.7				0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

QC Batch: GWD/1158

Analysis Method: EPA 9060A

QC Batch Method: EPA 9060A

Analysis Description: 9060 TOC, GWD

Associated Lab Samples: 92195702005, 92195702006, 92195702007, 92195702008, 92195702009, 92195702010

METHOD BLANK: 1173372

Matrix: Water

Associated Lab Samples: 92195702005, 92195702006, 92195702007, 92195702008, 92195702009, 92195702010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	ND	1.0	04/08/14 21:02	
Total Organic Carbon	mg/L	ND	1.0	04/08/14 21:02	
Total Organic Carbon	mg/L	ND	1.0	04/08/14 21:02	
Total Organic Carbon	mg/L	ND	1.0	04/08/14 21:02	
Total Organic Carbon	mg/L	ND	1.0	04/08/14 21:02	

LABORATORY CONTROL SAMPLE: 1173373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	50	47.3	95	75-125	
Total Organic Carbon	mg/L	50	47.0	94	75-125	
Total Organic Carbon	mg/L	50	47.5	95	75-125	
Total Organic Carbon	mg/L	50	47.7	95	75-125	
Total Organic Carbon	mg/L	50	47.2	94	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1173493 1173494

Parameter	Units	92196006001		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Mean Total Organic Carbon	mg/L	ND	50	50	49.3	49.7	97	98	98	75-125	1	
Total Organic Carbon	mg/L	ND	50	50	49.2	49.8	97	98	98	75-125	1	
Total Organic Carbon	mg/L	ND	50	50	49.2	49.7	97	98	98	75-125	1	
Total Organic Carbon	mg/L	ND	50	50	48.8	49.8	96	98	98	75-125	2	
Total Organic Carbon	mg/L	ND	50	50	49.8	49.7	98	98	98	75-125	0	

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC
Pace Project No.: 92195702

QC Batch: MPRP/15688 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Filtered
Associated Lab Samples: 92195702002, 92195702003, 92195702004, 92195702005, 92195702006, 92195702007, 92195702008, 92195702009, 92195702010

METHOD BLANK: 1178192 Matrix: Water
Associated Lab Samples: 92195702002, 92195702003, 92195702004, 92195702005, 92195702006, 92195702007, 92195702008, 92195702009, 92195702010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	5.0	04/15/14 15:12	

LABORATORY CONTROL SAMPLE: 1178193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	500	440	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1178194 1178195

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		92195702002	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Manganese, Dissolved	ug/L	190	500	500	599	602	82	82	75-125	0		

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

QC Batch: MSV/26317

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV SC

Associated Lab Samples: 92195702001, 92195702002, 92195702003

METHOD BLANK: 1171666

Matrix: Water

Associated Lab Samples: 92195702001, 92195702002, 92195702003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/04/14 12:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/04/14 12:31	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/04/14 12:31	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	04/04/14 12:31	
1,1-Dichloroethane	ug/L	ND	5.0	04/04/14 12:31	
1,1-Dichloroethene	ug/L	ND	5.0	04/04/14 12:31	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	04/04/14 12:31	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/04/14 12:31	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	04/04/14 12:31	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	04/04/14 12:31	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/04/14 12:31	
1,2-Dichloroethane	ug/L	ND	5.0	04/04/14 12:31	
1,2-Dichloropropane	ug/L	ND	5.0	04/04/14 12:31	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/04/14 12:31	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/04/14 12:31	
2-Butanone (MEK)	ug/L	ND	10.0	04/04/14 12:31	
2-Hexanone	ug/L	ND	10.0	04/04/14 12:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/04/14 12:31	
Acetone	ug/L	ND	25.0	04/04/14 12:31	
Benzene	ug/L	ND	5.0	04/04/14 12:31	
Bromodichloromethane	ug/L	ND	5.0	04/04/14 12:31	
Bromoform	ug/L	ND	5.0	04/04/14 12:31	
Bromomethane	ug/L	ND	10.0	04/04/14 12:31	
Carbon disulfide	ug/L	ND	10.0	04/04/14 12:31	
Carbon tetrachloride	ug/L	ND	5.0	04/04/14 12:31	
Chlorobenzene	ug/L	ND	5.0	04/04/14 12:31	
Chloroethane	ug/L	ND	10.0	04/04/14 12:31	
Chloroform	ug/L	ND	5.0	04/04/14 12:31	
Chloromethane	ug/L	ND	5.0	04/04/14 12:31	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/04/14 12:31	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/04/14 12:31	
Cyclohexane	ug/L	ND	5.0	04/04/14 12:31	
Dibromochloromethane	ug/L	ND	5.0	04/04/14 12:31	
Dichlorodifluoromethane	ug/L	ND	5.0	04/04/14 12:31	
Ethylbenzene	ug/L	ND	5.0	04/04/14 12:31	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	04/04/14 12:31	
Methyl acetate	ug/L	ND	10.0	04/04/14 12:31	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/04/14 12:31	
Methylcyclohexane	ug/L	ND	10.0	04/04/14 12:31	
Methylene Chloride	ug/L	ND	5.0	04/04/14 12:31	
Styrene	ug/L	ND	5.0	04/04/14 12:31	
Tetrachloroethene	ug/L	ND	5.0	04/04/14 12:31	
Toluene	ug/L	ND	5.0	04/04/14 12:31	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

METHOD BLANK: 1171666

Matrix: Water

Associated Lab Samples: 92195702001, 92195702002, 92195702003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/04/14 12:31	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/04/14 12:31	
Trichloroethene	ug/L	ND	5.0	04/04/14 12:31	
Trichlorofluoromethane	ug/L	ND	10.0	04/04/14 12:31	
Vinyl acetate	ug/L	ND	10.0	04/04/14 12:31	
Vinyl chloride	ug/L	ND	5.0	04/04/14 12:31	
Xylene (Total)	ug/L	ND	10.0	04/04/14 12:31	
1,2-Dichloroethane-d4 (S)	%	102	70-130	04/04/14 12:31	
4-Bromofluorobenzene (S)	%	99	70-130	04/04/14 12:31	
Toluene-d8 (S)	%	102	70-130	04/04/14 12:31	

LABORATORY CONTROL SAMPLE: 1171667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.9	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.8	96	70-130	
1,1,2-Trichloroethane	ug/L	50	51.7	103	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	60.8	122	70-130	
1,1-Dichloroethane	ug/L	50	49.8	100	70-130	
1,1-Dichloroethene	ug/L	50	47.3	95	70-130	
1,2,3-Trichlorobenzene	ug/L	50	53.3	107	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.7	95	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.2	104	70-130	
1,2-Dichlorobenzene	ug/L	50	50.3	101	70-130	
1,2-Dichloroethane	ug/L	50	51.6	103	70-130	
1,2-Dichloropropane	ug/L	50	51.1	102	70-130	
1,3-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,4-Dichlorobenzene	ug/L	50	51.2	102	70-130	
2-Butanone (MEK)	ug/L	100	95.5	95	70-130	
2-Hexanone	ug/L	100	91.7	92	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.3	92	70-130	
Acetone	ug/L	100	103	103	70-130	
Benzene	ug/L	50	53.0	106	70-130	
Bromodichloromethane	ug/L	50	50.9	102	70-130	
Bromoform	ug/L	50	50.1	100	70-130	
Bromomethane	ug/L	50	49.9	100	70-130	
Carbon disulfide	ug/L	50	48.0	96	70-130	
Carbon tetrachloride	ug/L	50	55.1	110	70-130	
Chlorobenzene	ug/L	50	51.2	102	70-130	
Chloroethane	ug/L	50	45.7	91	70-130	
Chloroform	ug/L	50	50.2	100	70-130	
Chloromethane	ug/L	50	38.4	77	70-130	
cis-1,2-Dichloroethene	ug/L	50	48.9	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.6	103	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

LABORATORY CONTROL SAMPLE: 1171667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyclohexane	ug/L	50	55.0	110	70-130	
Dibromochloromethane	ug/L	50	52.6	105	70-130	
Dichlorodifluoromethane	ug/L	50	58.2	116	70-130	
Ethylbenzene	ug/L	50	50.7	101	70-130	
Isopropylbenzene (Cumene)	ug/L	50	53.1	106	70-130	
Methyl acetate	ug/L	50	35.5	71	70-130	
Methyl-tert-butyl ether	ug/L	50	51.5	103	70-130	
Methylcyclohexane	ug/L	50	60.9	122	70-130	
Methylene Chloride	ug/L	50	51.1	102	70-130	
Styrene	ug/L	50	52.9	106	70-130	
Tetrachloroethene	ug/L	50	52.4	105	70-130	
Toluene	ug/L	50	51.8	104	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.4	107	70-130	
Trichloroethene	ug/L	50	51.2	102	70-130	
Trichlorofluoromethane	ug/L	50	53.1	106	70-130	
Vinyl acetate	ug/L	100	109	109	70-130	
Vinyl chloride	ug/L	50	48.3	97	70-130	
Xylene (Total)	ug/L	150	157	104	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1172765 1172766

Parameter	Units	92195574005		MS	MSD	MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,1,1-Trichloroethane	ug/L	ND	50	50	59.7	61.9	119	124	70-130	4		
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	46.3	48.6	93	97	70-130	5		
1,1,2-Trichloroethane	ug/L	ND	50	50	50.5	51.6	101	103	70-130	2		
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	65.7	72.4	131	145	70-130	10 M0		
1,1-Dichloroethane	ug/L	ND	50	50	52.0	55.8	104	112	70-130	7		
1,1-Dichloroethene	ug/L	ND	50	50	56.0	59.6	104	111	70-130	6		
1,2,3-Trichlorobenzene	ug/L	ND	50	50	53.1	55.7	106	111	70-130	5		
1,2,4-Trichlorobenzene	ug/L	ND	50	50	49.0	51.7	98	103	70-130	5		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	48.6	48.9	97	98	70-130	1		
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	48.8	49.6	98	99	70-130	1		
1,2-Dichlorobenzene	ug/L	ND	50	50	49.2	49.9	98	100	70-130	1		
1,2-Dichloroethane	ug/L	ND	50	50	52.7	56.9	105	114	70-130	8		
1,2-Dichloropropane	ug/L	ND	50	50	49.1	51.1	98	102	70-130	4		
1,3-Dichlorobenzene	ug/L	ND	50	50	47.8	49.2	96	98	70-130	3		
1,4-Dichlorobenzene	ug/L	ND	50	50	48.6	51.0	97	102	70-130	5		
2-Butanone (MEK)	ug/L	ND	100	100	92.1	99.3	92	99	70-130	8		
2-Hexanone	ug/L	ND	100	100	88.6	92.4	89	92	70-130	4		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	92.5	95.7	93	96	70-130	3		
Acetone	ug/L	ND	100	100	84.6	94.3	85	94	70-130	11		
Benzene	ug/L	ND	50	50	53.9	55.3	108	111	70-130	3		

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1172765			1172766			MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	92195574005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Bromodichloromethane	ug/L	ND	50	50	51.8	53.2	104	106	70-130	3	
Bromoform	ug/L	ND	50	50	49.2	51.4	98	103	70-130	4	
Bromomethane	ug/L	ND	50	50	55.9	60.5	112	121	70-130	8	
Carbon disulfide	ug/L	ND	50	50	53.9	56.4	108	113	70-130	5	
Carbon tetrachloride	ug/L	ND	50	50	58.3	59.9	117	120	70-130	3	
Chlorobenzene	ug/L	ND	50	50	49.9	51.5	100	103	70-130	3	
Chloroethane	ug/L	ND	50	50	50.0	50.9	100	102	70-130	2	
Chloroform	ug/L	39.8	50	50	96.5	98.0	113	116	70-130	2	
Chloromethane	ug/L	ND	50	50	44.6	45.7	89	91	70-130	2	
cis-1,2-Dichloroethene	ug/L	ND	50	50	51.7	55.2	103	110	70-130	6	
cis-1,3-Dichloropropene	ug/L	ND	50	50	51.3	52.9	103	106	70-130	3	
Cyclohexane	ug/L	ND	50	50	61.7	64.3	123	129	70-130	4	
Dibromochloromethane	ug/L	ND	50	50	49.8	51.1	100	102	70-130	3	
Dichlorodifluoromethane	ug/L	ND	50	50	61.3	65.1	123	130	70-130	6	
Ethylbenzene	ug/L	ND	50	50	49.4	51.2	99	102	70-130	4	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	53.5	54.9	107	110	70-130	3	
Methyl acetate	ug/L	ND	50	50	35.4	38.6	71	77	70-130	9	
Methyl-tert-butyl ether	ug/L	ND	50	50	52.7	56.9	105	114	70-130	8	
Methylcyclohexane	ug/L	ND	50	50	62.5	64.0	125	128	70-130	2	
Methylene Chloride	ug/L	ND	50	50	51.6	55.0	103	110	70-130	6	
Styrene	ug/L	ND	50	50	50.6	51.6	101	103	70-130	2	
Tetrachloroethene	ug/L	ND	50	50	55.5	55.1	111	110	70-130	1	
Toluene	ug/L	ND	50	50	52.1	54.3	104	109	70-130	4	
trans-1,2-Dichloroethene	ug/L	ND	50	50	52.3	54.6	105	109	70-130	4	
trans-1,3-Dichloropropene	ug/L	ND	50	50	52.5	55.9	105	112	70-130	6	
Trichloroethene	ug/L	ND	50	50	53.5	54.7	107	109	70-130	2	
Trichlorofluoromethane	ug/L	ND	50	50	61.8	64.3	124	129	70-130	4	
Vinyl acetate	ug/L	ND	100	100	110	119	110	119	70-130	8	
Vinyl chloride	ug/L	ND	50	50	52.8	56.2	106	112	70-130	6	
1,2-Dichloroethane-d4 (S)	%						106	106	70-130		
4-Bromofluorobenzene (S)	%						104	104	70-130		
Toluene-d8 (S)	%						102	101	70-130		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

QC Batch:	MSV/26326	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV SC
Associated Lab Samples:	92195702004		

METHOD BLANK: 1171951 Matrix: Water

Associated Lab Samples: 92195702004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/04/14 22:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/04/14 22:03	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/04/14 22:03	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	04/04/14 22:03	
1,1-Dichloroethane	ug/L	ND	5.0	04/04/14 22:03	
1,1-Dichloroethene	ug/L	ND	5.0	04/04/14 22:03	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	04/04/14 22:03	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/04/14 22:03	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	04/04/14 22:03	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	04/04/14 22:03	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/04/14 22:03	
1,2-Dichloroethane	ug/L	ND	5.0	04/04/14 22:03	
1,2-Dichloropropane	ug/L	ND	5.0	04/04/14 22:03	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/04/14 22:03	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/04/14 22:03	
2-Butanone (MEK)	ug/L	ND	10.0	04/04/14 22:03	
2-Hexanone	ug/L	ND	10.0	04/04/14 22:03	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/04/14 22:03	
Acetone	ug/L	ND	25.0	04/04/14 22:03	
Benzene	ug/L	ND	5.0	04/04/14 22:03	
Bromodichloromethane	ug/L	ND	5.0	04/04/14 22:03	
Bromoform	ug/L	ND	5.0	04/04/14 22:03	
Bromomethane	ug/L	ND	10.0	04/04/14 22:03	
Carbon disulfide	ug/L	ND	10.0	04/04/14 22:03	
Carbon tetrachloride	ug/L	ND	5.0	04/04/14 22:03	
Chlorobenzene	ug/L	ND	5.0	04/04/14 22:03	
Chloroethane	ug/L	ND	10.0	04/04/14 22:03	
Chloroform	ug/L	ND	5.0	04/04/14 22:03	
Chloromethane	ug/L	ND	5.0	04/04/14 22:03	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/04/14 22:03	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/04/14 22:03	
Cyclohexane	ug/L	ND	5.0	04/04/14 22:03	
Dibromochloromethane	ug/L	ND	5.0	04/04/14 22:03	
Dichlorodifluoromethane	ug/L	ND	5.0	04/04/14 22:03	
Ethylbenzene	ug/L	ND	5.0	04/04/14 22:03	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	04/04/14 22:03	
Methyl acetate	ug/L	ND	10.0	04/04/14 22:03	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/04/14 22:03	
Methylcyclohexane	ug/L	ND	10.0	04/04/14 22:03	
Methylene Chloride	ug/L	ND	5.0	04/04/14 22:03	
Styrene	ug/L	ND	5.0	04/04/14 22:03	
Tetrachloroethene	ug/L	ND	5.0	04/04/14 22:03	
Toluene	ug/L	ND	5.0	04/04/14 22:03	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

METHOD BLANK: 1171951

Matrix: Water

Associated Lab Samples: 92195702004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/04/14 22:03	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/04/14 22:03	
Trichloroethene	ug/L	ND	5.0	04/04/14 22:03	
Trichlorofluoromethane	ug/L	ND	10.0	04/04/14 22:03	
Vinyl acetate	ug/L	ND	10.0	04/04/14 22:03	
Vinyl chloride	ug/L	ND	5.0	04/04/14 22:03	
Xylene (Total)	ug/L	ND	10.0	04/04/14 22:03	
1,2-Dichloroethane-d4 (S)	%	103	70-130	04/04/14 22:03	
4-Bromofluorobenzene (S)	%	101	70-130	04/04/14 22:03	
Toluene-d8 (S)	%	101	70-130	04/04/14 22:03	

LABORATORY CONTROL SAMPLE: 1171952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.7	107	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.2	98	70-130	
1,1,2-Trichloroethane	ug/L	50	50.0	100	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	60.0	120	70-130	
1,1-Dichloroethane	ug/L	50	49.5	99	70-130	
1,1-Dichloroethene	ug/L	50	49.0	98	70-130	
1,2,3-Trichlorobenzene	ug/L	50	53.6	107	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.6	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	50.2	100	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.1	100	70-130	
1,2-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,2-Dichloroethane	ug/L	50	51.6	103	70-130	
1,2-Dichloropropane	ug/L	50	48.0	96	70-130	
1,3-Dichlorobenzene	ug/L	50	47.2	94	70-130	
1,4-Dichlorobenzene	ug/L	50	48.0	96	70-130	
2-Butanone (MEK)	ug/L	100	95.3	95	70-130	
2-Hexanone	ug/L	100	94.5	94	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	94.0	94	70-130	
Acetone	ug/L	100	93.5	94	70-130	
Benzene	ug/L	50	50.6	101	70-130	
Bromodichloromethane	ug/L	50	48.4	97	70-130	
Bromoform	ug/L	50	50.3	101	70-130	
Bromomethane	ug/L	50	55.2	110	70-130	
Carbon disulfide	ug/L	50	50.2	100	70-130	
Carbon tetrachloride	ug/L	50	51.6	103	70-130	
Chlorobenzene	ug/L	50	48.8	98	70-130	
Chloroethane	ug/L	50	47.0	94	70-130	
Chloroform	ug/L	50	49.1	98	70-130	
Chloromethane	ug/L	50	41.3	83	70-130	
cis-1,2-Dichloroethene	ug/L	50	49.3	99	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.8	96	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

LABORATORY CONTROL SAMPLE: 1171952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyclohexane	ug/L	50	55.1	110	70-130	
Dibromochloromethane	ug/L	50	49.1	98	70-130	
Dichlorodifluoromethane	ug/L	50	64.9	130	70-130	
Ethylbenzene	ug/L	50	48.1	96	70-130	
Isopropylbenzene (Cumene)	ug/L	50	52.0	104	70-130	
Methyl acetate	ug/L	50	37.6	75	70-130	
Methyl-tert-butyl ether	ug/L	50	53.5	107	70-130	
Methylcyclohexane	ug/L	50	55.6	111	70-130	
Methylene Chloride	ug/L	50	52.0	104	70-130	
Styrene	ug/L	50	50.7	101	70-130	
Tetrachloroethene	ug/L	50	51.4	103	70-130	
Toluene	ug/L	50	49.0	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.7	97	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.4	103	70-130	
Trichloroethene	ug/L	50	49.9	100	70-130	
Trichlorofluoromethane	ug/L	50	55.8	112	70-130	
Vinyl acetate	ug/L	100	111	111	70-130	
Vinyl chloride	ug/L	50	50.8	102	70-130	
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1172767

Parameter	Units	92195665001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	66.4	133	70-130	MO
1,1,2,2-Tetrachloroethane	ug/L	ND	50	49.0	98	70-130	
1,1,2-Trichloroethane	ug/L	ND	50	55.7	111	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	74.4	149	70-130	MO
1,1-Dichloroethane	ug/L	ND	50	59.9	120	70-130	
1,1-Dichloroethene	ug/L	ND	50	59.4	119	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	50	57.4	115	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	50	52.9	106	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	48.5	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	50	52.5	105	70-130	
1,2-Dichlorobenzene	ug/L	ND	50	51.8	104	70-130	
1,2-Dichloroethane	ug/L	ND	50	60.7	121	70-130	
1,2-Dichloropropane	ug/L	ND	50	53.6	107	70-130	
1,3-Dichlorobenzene	ug/L	ND	50	50.3	101	70-130	
1,4-Dichlorobenzene	ug/L	ND	50	51.8	104	70-130	
2-Butanone (MEK)	ug/L	ND	100	107	107	70-130	
2-Hexanone	ug/L	ND	100	91.8	92	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	103	103	70-130	
Acetone	ug/L	ND	100	99.7	100	70-130	
Benzene	ug/L	ND	50	59.1	118	70-130	
Bromodichloromethane	ug/L	ND	50	58.0	116	70-130	

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

MATRIX SPIKE SAMPLE: 1172767		92195665001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromoform	ug/L	ND	50	53.5	107	70-130	
Bromomethane	ug/L	ND	50	66.8	134	70-130	M0
Carbon disulfide	ug/L	ND	50	60.6	121	70-130	
Carbon tetrachloride	ug/L	ND	50	64.3	129	70-130	
Chlorobenzene	ug/L	ND	50	52.3	105	70-130	
Chloroethane	ug/L	ND	50	55.0	110	70-130	
Chloroform	ug/L	ND	50	60.0	120	70-130	
Chloromethane	ug/L	ND	50	47.9	96	70-130	
cis-1,2-Dichloroethene	ug/L	ND	50	58.4	117	70-130	
cis-1,3-Dichloropropene	ug/L	ND	50	55.8	112	70-130	
Cyclohexane	ug/L	ND	50	66.3	133	70-130	M0
Dibromochloromethane	ug/L	ND	50	53.7	107	70-130	
Dichlorodifluoromethane	ug/L	ND	50	68.5	137	70-130	M0
Ethylbenzene	ug/L	ND	50	51.5	103	70-130	
Isopropylbenzene (Cumene)	ug/L	ND	50	55.3	111	70-130	
Methyl acetate	ug/L	ND	50	42.2	84	70-130	
Methyl-tert-butyl ether	ug/L	ND	50	60.4	121	70-130	
Methylcyclohexane	ug/L	ND	50	67.2	134	70-130	M0
Methylene Chloride	ug/L	ND	50	58.6	117	70-130	
Styrene	ug/L	ND	50	54.3	109	70-130	
Tetrachloroethene	ug/L	ND	50	56.8	114	70-130	
Toluene	ug/L	ND	50	57.6	115	70-130	
trans-1,2-Dichloroethene	ug/L	ND	50	58.7	117	70-130	
trans-1,3-Dichloropropene	ug/L	ND	50	59.8	120	70-130	
Trichloroethene	ug/L	ND	50	58.4	117	70-130	
Trichlorofluoromethane	ug/L	ND	50	68.1	136	70-130	M0
Vinyl acetate	ug/L	ND	100	124	124	70-130	
Vinyl chloride	ug/L	ND	50	59.0	118	70-130	
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1172768

Parameter	Units	92195665002	Dup	RPD	Qualifiers
		Result	Result		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

SAMPLE DUPLICATE: 1172768

Parameter	Units	92195665002 Result	Dup Result	RPD	Qualifiers
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon disulfide	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Cyclohexane	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Isopropylbenzene (Cumene)	ug/L	ND	ND		
Methyl acetate	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylcyclohexane	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	102	106	4	
4-Bromofluorobenzene (S)	%	98	102	4	
Toluene-d8 (S)	%	102	100	1	

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

QC Batch: MSV/26340

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV SC

Associated Lab Samples: 92195702005, 92195702006

METHOD BLANK: 1172788

Matrix: Water

Associated Lab Samples: 92195702005, 92195702006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/07/14 12:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/07/14 12:21	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/07/14 12:21	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	04/07/14 12:21	
1,1-Dichloroethane	ug/L	ND	5.0	04/07/14 12:21	
1,1-Dichloroethene	ug/L	ND	5.0	04/07/14 12:21	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	04/07/14 12:21	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/07/14 12:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	04/07/14 12:21	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	04/07/14 12:21	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/07/14 12:21	
1,2-Dichloroethane	ug/L	ND	5.0	04/07/14 12:21	
1,2-Dichloropropane	ug/L	ND	5.0	04/07/14 12:21	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/07/14 12:21	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/07/14 12:21	
2-Butanone (MEK)	ug/L	ND	10.0	04/07/14 12:21	
2-Hexanone	ug/L	ND	10.0	04/07/14 12:21	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/07/14 12:21	
Acetone	ug/L	ND	25.0	04/07/14 12:21	
Benzene	ug/L	ND	5.0	04/07/14 12:21	
Bromodichloromethane	ug/L	ND	5.0	04/07/14 12:21	
Bromoform	ug/L	ND	5.0	04/07/14 12:21	
Bromomethane	ug/L	ND	10.0	04/07/14 12:21	
Carbon disulfide	ug/L	ND	10.0	04/07/14 12:21	
Carbon tetrachloride	ug/L	ND	5.0	04/07/14 12:21	
Chlorobenzene	ug/L	ND	5.0	04/07/14 12:21	
Chloroethane	ug/L	ND	10.0	04/07/14 12:21	
Chloroform	ug/L	ND	5.0	04/07/14 12:21	
Chloromethane	ug/L	ND	5.0	04/07/14 12:21	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/07/14 12:21	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/07/14 12:21	
Cyclohexane	ug/L	ND	5.0	04/07/14 12:21	
Dibromochloromethane	ug/L	ND	5.0	04/07/14 12:21	
Dichlorodifluoromethane	ug/L	ND	5.0	04/07/14 12:21	
Ethylbenzene	ug/L	ND	5.0	04/07/14 12:21	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	04/07/14 12:21	
Methyl acetate	ug/L	ND	10.0	04/07/14 12:21	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/07/14 12:21	
Methylcyclohexane	ug/L	ND	10.0	04/07/14 12:21	
Methylene Chloride	ug/L	ND	5.0	04/07/14 12:21	
Styrene	ug/L	ND	5.0	04/07/14 12:21	
Tetrachloroethene	ug/L	ND	5.0	04/07/14 12:21	
Toluene	ug/L	ND	5.0	04/07/14 12:21	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

METHOD BLANK: 1172788

Matrix: Water

Associated Lab Samples: 92195702005, 92195702006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/07/14 12:21	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/07/14 12:21	
Trichloroethene	ug/L	ND	5.0	04/07/14 12:21	
Trichlorofluoromethane	ug/L	ND	10.0	04/07/14 12:21	
Vinyl acetate	ug/L	ND	10.0	04/07/14 12:21	
Vinyl chloride	ug/L	ND	5.0	04/07/14 12:21	
Xylene (Total)	ug/L	ND	10.0	04/07/14 12:21	
1,2-Dichloroethane-d4 (S)	%	105	70-130	04/07/14 12:21	
4-Bromofluorobenzene (S)	%	101	70-130	04/07/14 12:21	
Toluene-d8 (S)	%	101	70-130	04/07/14 12:21	

LABORATORY CONTROL SAMPLE: 1172789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.1	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.0	98	70-130	
1,1,2-Trichloroethane	ug/L	50	52.5	105	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	58.5	117	70-130	
1,1-Dichloroethane	ug/L	50	50.4	101	70-130	
1,1-Dichloroethene	ug/L	50	47.4	95	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.0	104	70-130	
1,2,4-Trichlorobenzene	ug/L	50	46.7	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.3	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.8	104	70-130	
1,2-Dichlorobenzene	ug/L	50	48.2	96	70-130	
1,2-Dichloroethane	ug/L	50	54.5	109	70-130	
1,2-Dichloropropane	ug/L	50	48.7	97	70-130	
1,3-Dichlorobenzene	ug/L	50	46.9	94	70-130	
1,4-Dichlorobenzene	ug/L	50	48.4	97	70-130	
2-Butanone (MEK)	ug/L	100	92.3	92	70-130	
2-Hexanone	ug/L	100	89.0	89	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.8	96	70-130	
Acetone	ug/L	100	95.8	96	70-130	
Benzene	ug/L	50	50.7	101	70-130	
Bromodichloromethane	ug/L	50	52.7	105	70-130	
Bromoform	ug/L	50	51.8	104	70-130	
Bromomethane	ug/L	50	46.2	92	70-130	
Carbon disulfide	ug/L	50	48.0	96	70-130	
Carbon tetrachloride	ug/L	50	53.9	108	70-130	
Chlorobenzene	ug/L	50	49.9	100	70-130	
Chloroethane	ug/L	50	45.5	91	70-130	
Chloroform	ug/L	50	51.1	102	70-130	
Chloromethane	ug/L	50	41.9	84	70-130	
cis-1,2-Dichloroethene	ug/L	50	50.1	100	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.2	102	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

LABORATORY CONTROL SAMPLE: 1172789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyclohexane	ug/L	50	53.8	108	70-130	
Dibromochloromethane	ug/L	50	52.1	104	70-130	
Dichlorodifluoromethane	ug/L	50	53.5	107	70-130	
Ethylbenzene	ug/L	50	49.1	98	70-130	
Isopropylbenzene (Cumene)	ug/L	50	52.2	104	70-130	
Methyl acetate	ug/L	50	39.7	79	70-130	
Methyl-tert-butyl ether	ug/L	50	54.7	109	70-130	
Methylcyclohexane	ug/L	50	56.5	113	70-130	
Methylene Chloride	ug/L	50	51.3	103	70-130	
Styrene	ug/L	50	51.6	103	70-130	
Tetrachloroethene	ug/L	50	51.4	103	70-130	
Toluene	ug/L	50	50.8	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.8	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.7	107	70-130	
Trichloroethene	ug/L	50	51.1	102	70-130	
Trichlorofluoromethane	ug/L	50	53.1	106	70-130	
Vinyl acetate	ug/L	100	115	115	70-130	
Vinyl chloride	ug/L	50	47.7	95	70-130	
Xylene (Total)	ug/L	150	154	102	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1173344 1173345

Parameter	92196171004		MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,1,1-Trichloroethane	ug/L	ND	50	50	67.4	63.0	135	126	70-130	7	M1	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	60.9	57.5	122	115	70-130	6		
1,1,2-Trichloroethane	ug/L	ND	50	50	63.0	60.4	126	121	70-130	4		
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	72.2	65.6	144	131	70-130	10	M1	
1,1-Dichloroethane	ug/L	ND	50	50	61.1	57.4	122	115	70-130	6		
1,1-Dichloroethene	ug/L	ND	50	50	67.8	63.0	136	126	70-130	7	M1	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	62.0	59.1	124	118	70-130	5		
1,2,4-Trichlorobenzene	ug/L	ND	50	50	61.9	58.5	124	117	70-130	6		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	60.8	59.0	122	118	70-130	3		
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	63.7	60.8	127	122	70-130	5		
1,2-Dichlorobenzene	ug/L	ND	50	50	63.6	60.9	127	122	70-130	4		
1,2-Dichloroethane	ug/L	ND	50	50	61.3	57.9	123	116	70-130	6		
1,2-Dichloropropane	ug/L	ND	50	50	61.6	59.7	123	119	70-130	3		
1,3-Dichlorobenzene	ug/L	ND	50	50	63.0	60.0	126	120	70-130	5		
1,4-Dichlorobenzene	ug/L	ND	50	50	62.6	59.0	125	118	70-130	6		
2-Butanone (MEK)	ug/L	ND	100	100	118	119	118	119	70-130	1		
2-Hexanone	ug/L	ND	100	100	126	122	126	122	70-130	3		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	122	118	122	118	70-130	3		
Acetone	ug/L	ND	100	100	120	127	116	123	70-130	5		
Benzene	ug/L	ND	50	50	62.7	60.1	125	120	70-130	4		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Parameter	92196171004		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1173344														
Bromodichloromethane	ug/L	ND	50	50	67.2	64.7	134	129	70-130	4	M1			
Bromoform	ug/L	ND	50	50	57.6	55.3	115	111	70-130	4				
Bromomethane	ug/L	ND	50	50	53.8	56.3	108	113	70-130	4				
Carbon disulfide	ug/L	ND	50	50	73.7	69.2	147	138	70-130	6	M1			
Carbon tetrachloride	ug/L	ND	50	50	68.3	65.1	137	130	70-130	5	M1			
Chlorobenzene	ug/L	ND	50	50	62.0	59.4	124	119	70-130	4				
Chloroethane	ug/L	ND	50	50	52.6	48.4	105	97	70-130	8				
Chloroform	ug/L	ND	50	50	60.9	58.5	122	117	70-130	4				
Chloromethane	ug/L	ND	50	50	58.6	58.0	117	116	70-130	1				
cis-1,2-Dichloroethene	ug/L	ND	50	50	60.7	57.4	121	115	70-130	6				
cis-1,3-Dichloropropene	ug/L	ND	50	50	65.5	63.2	131	126	70-130	4	M1			
Cyclohexane	ug/L	ND	50	50	65.5	60.2	131	120	70-130	8	M1			
Dibromochloromethane	ug/L	ND	50	50	60.2	56.7	120	113	70-130	6				
Dichlorodifluoromethane	ug/L	ND	50	50	73.1	66.5	146	133	70-130	9	M1			
Ethylbenzene	ug/L	ND	50	50	64.3	61.0	129	122	70-130	5				
Isopropylbenzene (Cumene)	ug/L	ND	50	50	66.3	63.3	133	127	70-130	5	M1			
Methyl acetate	ug/L	ND	50	50	49.7	46.7	99	93	70-130	6				
Methyl-tert-butyl ether	ug/L	ND	50	50	62.1	58.2	124	116	70-130	6				
Methylcyclohexane	ug/L	ND	50	50	65.3	60.9	131	122	70-130	7	M1			
Methylene Chloride	ug/L	ND	50	50	63.2	60.0	126	120	70-130	5				
Styrene	ug/L	ND	50	50	67.4	64.0	135	128	70-130	5	M1			
Tetrachloroethene	ug/L	ND	50	50	65.4	61.8	131	124	70-130	6	M1			
Toluene	ug/L	ND	50	50	62.3	59.7	125	119	70-130	4				
trans-1,2-Dichloroethene	ug/L	ND	50	50	63.7	59.0	127	118	70-130	8				
trans-1,3-Dichloropropene	ug/L	ND	50	50	60.0	57.6	120	115	70-130	4				
Trichloroethene	ug/L	ND	50	50	62.8	60.8	126	122	70-130	3				
Trichlorofluoromethane	ug/L	ND	50	50	63.1	57.3	126	115	70-130	10				
Vinyl acetate	ug/L	ND	100	100	125	117	125	117	70-130	7				
Vinyl chloride	ug/L	ND	50	50	65.7	60.2	131	120	70-130	9	M1			
1,2-Dichloroethane-d4 (S)	%						96	96	70-130					
4-Bromofluorobenzene (S)	%						102	102	70-130					
Toluene-d8 (S)	%						101	101	70-130					

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

QC Batch: MSV/26342

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV SC

Associated Lab Samples: 92195702007, 92195702008, 92195702009, 92195702010

METHOD BLANK: 1172974

Matrix: Water

Associated Lab Samples: 92195702007, 92195702008, 92195702009, 92195702010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/08/14 01:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/08/14 01:25	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/08/14 01:25	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	04/08/14 01:25	
1,1-Dichloroethane	ug/L	ND	5.0	04/08/14 01:25	
1,1-Dichloroethene	ug/L	ND	5.0	04/08/14 01:25	
1,2,3-Trichlorobenzene	ug/L	5.7	5.0	04/08/14 01:25	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/08/14 01:25	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	04/08/14 01:25	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	04/08/14 01:25	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/08/14 01:25	
1,2-Dichloroethane	ug/L	ND	5.0	04/08/14 01:25	
1,2-Dichloropropane	ug/L	ND	5.0	04/08/14 01:25	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/08/14 01:25	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/08/14 01:25	
2-Butanone (MEK)	ug/L	ND	10.0	04/08/14 01:25	
2-Hexanone	ug/L	ND	10.0	04/08/14 01:25	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/08/14 01:25	
Acetone	ug/L	ND	25.0	04/08/14 01:25	
Benzene	ug/L	ND	5.0	04/08/14 01:25	
Bromodichloromethane	ug/L	ND	5.0	04/08/14 01:25	
Bromoform	ug/L	ND	5.0	04/08/14 01:25	
Bromomethane	ug/L	ND	10.0	04/08/14 01:25	
Carbon disulfide	ug/L	ND	10.0	04/08/14 01:25	
Carbon tetrachloride	ug/L	ND	5.0	04/08/14 01:25	
Chlorobenzene	ug/L	ND	5.0	04/08/14 01:25	
Chloroethane	ug/L	ND	10.0	04/08/14 01:25	
Chloroform	ug/L	ND	5.0	04/08/14 01:25	
Chloromethane	ug/L	ND	5.0	04/08/14 01:25	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/08/14 01:25	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/08/14 01:25	
Cyclohexane	ug/L	ND	5.0	04/08/14 01:25	
Dibromochloromethane	ug/L	ND	5.0	04/08/14 01:25	
Dichlorodifluoromethane	ug/L	ND	5.0	04/08/14 01:25	
Ethylbenzene	ug/L	ND	5.0	04/08/14 01:25	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	04/08/14 01:25	
Methyl acetate	ug/L	ND	10.0	04/08/14 01:25	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/08/14 01:25	
Methylcyclohexane	ug/L	ND	10.0	04/08/14 01:25	
Methylene Chloride	ug/L	ND	5.0	04/08/14 01:25	
Styrene	ug/L	ND	5.0	04/08/14 01:25	
Tetrachloroethene	ug/L	ND	5.0	04/08/14 01:25	
Toluene	ug/L	ND	5.0	04/08/14 01:25	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

METHOD BLANK: 1172974

Matrix: Water

Associated Lab Samples: 92195702007, 92195702008, 92195702009, 92195702010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/08/14 01:25	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/08/14 01:25	
Trichloroethene	ug/L	ND	5.0	04/08/14 01:25	
Trichlorofluoromethane	ug/L	ND	10.0	04/08/14 01:25	
Vinyl acetate	ug/L	ND	10.0	04/08/14 01:25	
Vinyl chloride	ug/L	ND	5.0	04/08/14 01:25	
Xylene (Total)	ug/L	ND	10.0	04/08/14 01:25	
1,2-Dichloroethane-d4 (S)	%	101	70-130	04/08/14 01:25	
4-Bromofluorobenzene (S)	%	100	70-130	04/08/14 01:25	
Toluene-d8 (S)	%	100	70-130	04/08/14 01:25	

LABORATORY CONTROL SAMPLE: 1172975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.2	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	70-130	
1,1,2-Trichloroethane	ug/L	50	47.1	94	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	49.9	100	70-130	
1,1-Dichloroethane	ug/L	50	47.2	94	70-130	
1,1-Dichloroethene	ug/L	50	47.6	95	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.1	100	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.5	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	42.9	86	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.0	100	70-130	
1,2-Dichlorobenzene	ug/L	50	47.6	95	70-130	
1,2-Dichloroethane	ug/L	50	47.9	96	70-130	
1,2-Dichloropropane	ug/L	50	48.2	96	70-130	
1,3-Dichlorobenzene	ug/L	50	46.0	92	70-130	
1,4-Dichlorobenzene	ug/L	50	47.8	96	70-130	
2-Butanone (MEK)	ug/L	100	99.0	99	70-130	
2-Hexanone	ug/L	100	92.5	92	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.3	96	70-130	
Acetone	ug/L	100	92.0	92	70-130	
Benzene	ug/L	50	50.5	101	70-130	
Bromodichloromethane	ug/L	50	48.0	96	70-130	
Bromoform	ug/L	50	47.5	95	70-130	
Bromomethane	ug/L	50	45.3	91	70-130	
Carbon disulfide	ug/L	50	47.8	96	70-130	
Carbon tetrachloride	ug/L	50	49.9	100	70-130	
Chlorobenzene	ug/L	50	48.9	98	70-130	
Chloroethane	ug/L	50	46.6	93	70-130	
Chloroform	ug/L	50	47.3	95	70-130	
Chloromethane	ug/L	50	47.2	94	70-130	
cis-1,2-Dichloroethene	ug/L	50	47.1	94	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.1	96	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

LABORATORY CONTROL SAMPLE: 1172975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyclohexane	ug/L	50	48.6	97	70-130	
Dibromochloromethane	ug/L	50	49.0	98	70-130	
Dichlorodifluoromethane	ug/L	50	50.1	100	70-130	
Ethylbenzene	ug/L	50	48.7	97	70-130	
Isopropylbenzene (Cumene)	ug/L	50	51.2	102	70-130	
Methyl acetate	ug/L	50	47.9	96	70-130	
Methyl-tert-butyl ether	ug/L	50	49.9	100	70-130	
Methylcyclohexane	ug/L	50	50.4	101	70-130	
Methylene Chloride	ug/L	50	50.2	100	70-130	
Styrene	ug/L	50	50.5	101	70-130	
Tetrachloroethene	ug/L	50	48.9	98	70-130	
Toluene	ug/L	50	49.1	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.4	95	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.1	96	70-130	
Trichloroethene	ug/L	50	46.0	92	70-130	
Trichlorofluoromethane	ug/L	50	50.2	100	70-130	
Vinyl acetate	ug/L	100	96.5	97	70-130	
Vinyl chloride	ug/L	50	51.7	103	70-130	
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1174574 1174575

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92196006001 Result	Spike Conc.	Spike Conc.	MS Result					
1,1,1-Trichloroethane	ug/L	ND	50	50	52.4	67.0	105	134	70-130	24 M1
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	46.5	60.0	93	120	70-130	25
1,1,2-Trichloroethane	ug/L	ND	50	50	49.2	62.4	98	125	70-130	24
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	54.1	68.4	108	137	70-130	23 M1
1,1-Dichloroethane	ug/L	ND	50	50	48.2	60.7	96	121	70-130	23
1,1-Dichloroethene	ug/L	ND	50	50	50.9	63.7	102	127	70-130	22
1,2,3-Trichlorobenzene	ug/L	ND	50	50	48.3	63.5	97	127	70-130	27
1,2,4-Trichlorobenzene	ug/L	ND	50	50	48.0	62.3	96	125	70-130	26
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	ND	59.4	3	119	70-130	M1
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	49.8	63.2	100	126	70-130	24
1,2-Dichlorobenzene	ug/L	ND	50	50	49.2	63.3	98	127	70-130	25
1,2-Dichloroethane	ug/L	ND	50	50	47.5	61.8	95	124	70-130	26
1,2-Dichloropropane	ug/L	ND	50	50	49.0	61.7	98	123	70-130	23
1,3-Dichlorobenzene	ug/L	ND	50	50	48.4	62.5	97	125	70-130	26
1,4-Dichlorobenzene	ug/L	ND	50	50	48.2	61.8	96	124	70-130	25
2-Butanone (MEK)	ug/L	ND	100	100	92.0	115	92	115	70-130	22
2-Hexanone	ug/L	ND	100	100	97.1	121	97	121	70-130	22
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	95.8	119	96	119	70-130	22
Acetone	ug/L	ND	100	100	91.7	120	92	120	70-130	26
Benzene	ug/L	ND	50	50	50.4	62.3	101	125	70-130	21

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Parameter	92196006001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec						
Bromodichloromethane	ug/L	ND	50	50	52.5	67.0	105	134	70-130	24	M1			
Bromoform	ug/L	ND	50	50	44.4	58.4	89	117	70-130	27				
Bromomethane	ug/L	ND	50	50	39.6	57.9	79	116	70-130	38	R1			
Carbon disulfide	ug/L	ND	50	50	53.1	68.6	106	137	70-130	25	M1			
Carbon tetrachloride	ug/L	ND	50	50	54.3	68.8	109	138	70-130	23	M1			
Chlorobenzene	ug/L	ND	50	50	48.4	60.6	97	121	70-130	22				
Chloroethane	ug/L	ND	50	50	42.6	51.9	85	104	70-130	20				
Chloroform	ug/L	149	50	50	215	231	132	164	70-130	7	E			
Chloromethane	ug/L	ND	50	50	42.1	56.3	84	113	70-130	29				
cis-1,2-Dichloroethene	ug/L	ND	50	50	46.9	59.8	94	120	70-130	24				
cis-1,3-Dichloropropene	ug/L	ND	50	50	52.2	66.1	104	132	70-130	23	M1			
Cyclohexane	ug/L	ND	50	50	50.6	63.7	101	127	70-130	23				
Dibromochloromethane	ug/L	ND	50	50	46.7	59.4	93	119	70-130	24				
Dichlorodifluoromethane	ug/L	ND	50	50	55.7	70.0	111	140	70-130	23	M1			
Ethylbenzene	ug/L	ND	50	50	49.9	62.9	100	126	70-130	23				
Isopropylbenzene (Cumene)	ug/L	ND	50	50	52.4	66.4	105	133	70-130	24	M1			
Methyl acetate	ug/L	ND	50	50	42.2	52.7	84	105	70-130	22				
Methyl-tert-butyl ether	ug/L	ND	50	50	47.8	61.5	96	123	70-130	25				
Methylcyclohexane	ug/L	ND	50	50	52.0	65.4	104	131	70-130	23	M1			
Methylene Chloride	ug/L	ND	50	50	47.6	60.1	95	120	70-130	23				
Styrene	ug/L	ND	50	50	52.1	66.1	104	132	70-130	24	M1			
Tetrachloroethene	ug/L	ND	50	50	51.3	64.4	103	129	70-130	23				
Toluene	ug/L	ND	50	50	50.2	62.1	100	124	70-130	21				
trans-1,2-Dichloroethene	ug/L	ND	50	50	49.6	61.8	99	124	70-130	22				
trans-1,3-Dichloropropene	ug/L	ND	50	50	47.1	60.5	94	121	70-130	25				
Trichloroethene	ug/L	ND	50	50	50.2	62.0	100	124	70-130	21				
Trichlorofluoromethane	ug/L	ND	50	50	49.3	62.0	99	124	70-130	23				
Vinyl acetate	ug/L	ND	100	100	96.8	123	97	123	70-130	24				
Vinyl chloride	ug/L	ND	50	50	49.1	61.1	98	122	70-130	22				
1,2-Dichloroethane-d4 (S)	%						95	97	70-130					
4-Bromofluorobenzene (S)	%						102	102	70-130					
Toluene-d8 (S)	%						103	102	70-130					

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC
Pace Project No.: 92195702

QC Batch: MSV/26316 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92195702001, 92195702002, 92195702003, 92195702004, 92195702005, 92195702006, 92195702007

METHOD BLANK: 1171636 Matrix: Water
Associated Lab Samples: 92195702001, 92195702002, 92195702003, 92195702004, 92195702005, 92195702006, 92195702007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	04/08/14 12:41	
1,2-Dichloroethane-d4 (S)	%	102	50-150	04/08/14 12:41	
Toluene-d8 (S)	%	100	50-150	04/08/14 12:41	

LABORATORY CONTROL SAMPLE: 1171637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	22.2	111	50-150	
1,2-Dichloroethane-d4 (S)	%			100	50-150	
Toluene-d8 (S)	%			101	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1171638 1171639

Parameter	Units	92195116002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	22.7	22.1	113	110	50-150	3	
1,2-Dichloroethane-d4 (S)	%						105	105	50-150		
Toluene-d8 (S)	%						94	94	50-150		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1171640 1171641

Parameter	Units	92196006001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	2.3	20	20	25.5	26.8	116	123	50-150	5	
1,2-Dichloroethane-d4 (S)	%						101	103	50-150		
Toluene-d8 (S)	%						95	95	50-150		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

QC Batch: OEXT/26857 Analysis Method: EPA 8270
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
 Associated Lab Samples: 92195702002, 92195702003, 92195702004, 92195702005, 92195702006, 92195702007

METHOD BLANK: 1171964 Matrix: Water
 Associated Lab Samples: 92195702002, 92195702003, 92195702004, 92195702005, 92195702006, 92195702007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	ND	10.0	04/07/14 16:26	
2,4,5-Trichlorophenol	ug/L	ND	10.0	04/07/14 16:26	
2,4,6-Trichlorophenol	ug/L	ND	10.0	04/07/14 16:26	
2,4-Dichlorophenol	ug/L	ND	10.0	04/07/14 16:26	
2,4-Dimethylphenol	ug/L	ND	10.0	04/07/14 16:26	
2,4-Dinitrophenol	ug/L	ND	50.0	04/07/14 16:26	
2,4-Dinitrotoluene	ug/L	ND	10.0	04/07/14 16:26	
2,6-Dinitrotoluene	ug/L	ND	10.0	04/07/14 16:26	
2-Chloronaphthalene	ug/L	ND	10.0	04/07/14 16:26	
2-Chlorophenol	ug/L	ND	10.0	04/07/14 16:26	
2-Methylnaphthalene	ug/L	ND	10.0	04/07/14 16:26	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/07/14 16:26	
2-Nitroaniline	ug/L	ND	50.0	04/07/14 16:26	
2-Nitrophenol	ug/L	ND	10.0	04/07/14 16:26	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	04/07/14 16:26	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	04/07/14 16:26	
3-Nitroaniline	ug/L	ND	50.0	04/07/14 16:26	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	04/07/14 16:26	
4-Bromophenylphenyl ether	ug/L	ND	10.0	04/07/14 16:26	
4-Chloro-3-methylphenol	ug/L	ND	20.0	04/07/14 16:26	
4-Chloroaniline	ug/L	ND	20.0	04/07/14 16:26	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	04/07/14 16:26	
4-Nitroaniline	ug/L	ND	20.0	04/07/14 16:26	
4-Nitrophenol	ug/L	ND	50.0	04/07/14 16:26	
Acenaphthene	ug/L	ND	10.0	04/07/14 16:26	
Acenaphthylene	ug/L	ND	10.0	04/07/14 16:26	
Anthracene	ug/L	ND	10.0	04/07/14 16:26	
Atrazine	ug/L	ND	20.0	04/07/14 16:26	
Benzaldehyde	ug/L	ND	20.0	04/07/14 16:26	
Benzo(a)anthracene	ug/L	ND	10.0	04/07/14 16:26	
Benzo(a)pyrene	ug/L	ND	10.0	04/07/14 16:26	
Benzo(b)fluoranthene	ug/L	ND	10.0	04/07/14 16:26	
Benzo(g,h,i)perylene	ug/L	ND	10.0	04/07/14 16:26	
Benzo(k)fluoranthene	ug/L	ND	10.0	04/07/14 16:26	
Biphenyl (Diphenyl)	ug/L	ND	10.0	04/07/14 16:26	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	04/07/14 16:26	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	04/07/14 16:26	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	04/07/14 16:26	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	04/07/14 16:26	
Butylbenzylphthalate	ug/L	ND	10.0	04/07/14 16:26	
Caprolactam	ug/L	ND	10.0	04/07/14 16:26	
Carbazole	ug/L	ND	10.0	04/07/14 16:26	
Chrysene	ug/L	ND	10.0	04/07/14 16:26	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

METHOD BLANK: 1171964

Matrix: Water

Associated Lab Samples: 92195702002, 92195702003, 92195702004, 92195702005, 92195702006, 92195702007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Di-n-butylphthalate	ug/L	ND	10.0	04/07/14 16:26	
Di-n-octylphthalate	ug/L	ND	10.0	04/07/14 16:26	
Dibenz(a,h)anthracene	ug/L	ND	10.0	04/07/14 16:26	
Dibenzofuran	ug/L	ND	10.0	04/07/14 16:26	
Diethylphthalate	ug/L	ND	10.0	04/07/14 16:26	
Dimethylphthalate	ug/L	ND	10.0	04/07/14 16:26	
Diphenyl ether (Phenyl ether)	ug/L	ND	20.0	04/07/14 16:26	
Fluoranthene	ug/L	ND	10.0	04/07/14 16:26	
Fluorene	ug/L	ND	10.0	04/07/14 16:26	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	04/07/14 16:26	
Hexachlorobenzene	ug/L	ND	10.0	04/07/14 16:26	
Hexachlorocyclopentadiene	ug/L	ND	10.0	04/07/14 16:26	
Hexachloroethane	ug/L	ND	10.0	04/07/14 16:26	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	04/07/14 16:26	
Isophorone	ug/L	ND	10.0	04/07/14 16:26	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	04/07/14 16:26	
N-Nitrosodiphenylamine	ug/L	ND	10.0	04/07/14 16:26	
Naphthalene	ug/L	ND	10.0	04/07/14 16:26	
Nitrobenzene	ug/L	ND	10.0	04/07/14 16:26	
Pentachlorophenol	ug/L	ND	25.0	04/07/14 16:26	
Phenanthrene	ug/L	ND	10.0	04/07/14 16:26	
Phenol	ug/L	ND	10.0	04/07/14 16:26	
Pyrene	ug/L	ND	10.0	04/07/14 16:26	
2,4,6-Tribromophenol (S)	%	66	27-110	04/07/14 16:26	
2-Fluorobiphenyl (S)	%	77	27-110	04/07/14 16:26	
2-Fluorophenol (S)	%	46	12-110	04/07/14 16:26	
Nitrobenzene-d5 (S)	%	79	21-110	04/07/14 16:26	
Phenol-d6 (S)	%	34	10-110	04/07/14 16:26	
Terphenyl-d14 (S)	%	102	31-107	04/07/14 16:26	

LABORATORY CONTROL SAMPLE: 1171965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	50	48.3	97	17-115	
2,4,5-Trichlorophenol	ug/L	50	47.9	96	23-116	
2,4,6-Trichlorophenol	ug/L	50	45.3	91	21-114	
2,4-Dichlorophenol	ug/L	50	35.1	70	22-120	
2,4-Dimethylphenol	ug/L	50	33.5	67	15-109	
2,4-Dinitrophenol	ug/L	250	282	113	10-103	L0
2,4-Dinitrotoluene	ug/L	50	51.5	103	24-119	
2,6-Dinitrotoluene	ug/L	50	50.4	101	25-116	
2-Chloronaphthalene	ug/L	50	49.5	99	18-110	
2-Chlorophenol	ug/L	50	43.0	86	10-104	
2-Methylnaphthalene	ug/L	50	33.9	68	16-110	
2-Methylphenol(o-Cresol)	ug/L	50	40.3	81	13-110	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

LABORATORY CONTROL SAMPLE: 1171965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Nitroaniline	ug/L	100	108	108	20-117	
2-Nitrophenol	ug/L	50	35.4	71	16-108	
3&4-Methylphenol(m&p Cresol)	ug/L	50	38.6	77	14-110	
3,3'-Dichlorobenzidine	ug/L	250	83.8	34	13-131	
3-Nitroaniline	ug/L	100	100	100	15-117	
4,6-Dinitro-2-methylphenol	ug/L	100	104	104	13-119	
4-Bromophenylphenyl ether	ug/L	50	39.4	79	23-120	
4-Chloro-3-methylphenol	ug/L	100	75.7	76	21-119	
4-Chloroaniline	ug/L	100	68.9	69	10-122	
4-Chlorophenylphenyl ether	ug/L	50	46.6	93	22-112	
4-Nitroaniline	ug/L	100	105	105	14-118	
4-Nitrophenol	ug/L	250	122	49	10-110	
Acenaphthene	ug/L	50	41.9	84	20-105	
Acenaphthylene	ug/L	50	44.5	89	23-106	
Anthracene	ug/L	50	43.5	87	25-120	
Atrazine	ug/L	50	40.4	81	17-115	
Benzaldehyde	ug/L	50	ND	0	17-115 L2	
Benzo(a)anthracene	ug/L	50	46.0	92	21-128	
Benzo(a)pyrene	ug/L	50	48.6	97	25-116	
Benzo(b)fluoranthene	ug/L	50	49.2	98	23-117	
Benzo(g,h,i)perylene	ug/L	50	51.8	104	17-128	
Benzo(k)fluoranthene	ug/L	50	46.0	92	25-127	
Biphenyl (Diphenyl)	ug/L	50	43.7	87	17-115	
bis(2-Chloroethoxy)methane	ug/L	50	46.0	92	19-107	
bis(2-Chloroethyl) ether	ug/L	50	44.5	89	10-108	
bis(2-Chloroisopropyl) ether	ug/L	50	42.3	85	10-108	
bis(2-Ethylhexyl)phthalate	ug/L	50	47.0	94	16-123	
Butylbenzylphthalate	ug/L	50	46.0	92	20-118	
Caprolactam	ug/L	50	13.4	27	17-115	
Carbazole	ug/L	50	45.3	91	17-115	
Chrysene	ug/L	50	47.0	94	24-125	
Di-n-butylphthalate	ug/L	50	42.7	85	23-115	
Di-n-octylphthalate	ug/L	50	46.1	92	20-115	
Dibenz(a,h)anthracene	ug/L	50	51.0	102	18-131	
Dibenzofuran	ug/L	50	48.1	96	23-106	
Diethylphthalate	ug/L	50	45.3	91	24-115	
Dimethylphthalate	ug/L	50	45.1	90	22-113	
Diphenyl ether (Phenyl ether)	ug/L	50	46.4	93	17-115	
Fluoranthene	ug/L	50	44.9	90	24-125	
Fluorene	ug/L	50	45.5	91	24-114	
Hexachloro-1,3-butadiene	ug/L	50	30.2	60	10-110	
Hexachlorobenzene	ug/L	50	39.2	78	22-127	
Hexachlorocyclopentadiene	ug/L	50	45.7	91	10-110	
Hexachloroethane	ug/L	50	45.2	90	10-110	
Indeno(1,2,3-cd)pyrene	ug/L	50	52.9	106	18-130	
Isophorone	ug/L	50	40.1	80	23-114	
N-Nitroso-di-n-propylamine	ug/L	50	46.6	93	21-114	
N-Nitrosodiphenylamine	ug/L	50	33.7	67	24-123	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

LABORATORY CONTROL SAMPLE: 1171965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	33.2	66	14-110	
Nitrobenzene	ug/L	50	38.5	77	16-106	
Pentachlorophenol	ug/L	250	83.3	33	10-123	
Phenanthrene	ug/L	50	42.8	86	25-119	
Phenol	ug/L	50	23.4	47	10-110	
Pyrene	ug/L	50	49.2	98	22-127	
2,4,6-Tribromophenol (S)	%			80	27-110	
2-Fluorobiphenyl (S)	%			89	27-110	
2-Fluorophenol (S)	%			60	12-110	
Nitrobenzene-d5 (S)	%			73	21-110	
Phenol-d6 (S)	%			45	10-110	
Terphenyl-d14 (S)	%			98	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1171966 1171967

Parameter	92195993004		MS	MSD	MS		MSD		% Rec	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,2,4,5-Tetrachlorobenzene	ug/L	ND	100	100	91.2	83.7	91	84	50-150	9	
2,4,5-Trichlorophenol	ug/L	ND	100	100	94.4	102	94	102	19-105	8	
2,4,6-Trichlorophenol	ug/L	ND	100	100	87.3	91.7	87	92	13-108	5	
2,4-Dichlorophenol	ug/L	ND	100	100	68.4	80.1	68	80	29-111	16	
2,4-Dimethylphenol	ug/L	ND	100	100	64.1	68.6	64	69	21-103	7	
2,4-Dinitrophenol	ug/L	ND	500	500	506	445	101	89	10-109	13	
2,4-Dinitrotoluene	ug/L	ND	100	100	124	115	124	115	27-104	7	M1
2,6-Dinitrotoluene	ug/L	ND	100	100	117	121	117	121	28-101	3	M1
2-Chloronaphthalene	ug/L	ND	100	100	93.1	90.7	93	91	14-102	3	
2-Chlorophenol	ug/L	ND	100	100	101	116	101	116	16-110	14	M1
2-Methylnaphthalene	ug/L	ND	100	100	64.7	72.7	65	73	13-110	12	
2-Methylphenol(o-Cresol)	ug/L	ND	100	100	91.5	118	92	118	19-110	25	M1
2-Nitroaniline	ug/L	ND	200	200	223	229	112	115	26-103	3	M1
2-Nitrophenol	ug/L	ND	100	100	76.4	78.5	76	78	20-110	3	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	100	100	80.7	110	81	110	20-110	31	M1
3,3'-Dichlorobenzidine	ug/L	ND	500	500	228	242	46	48	25-112	6	
3-Nitroaniline	ug/L	ND	200	200	231	228	116	114	29-110	1	M1
4,6-Dinitro-2-methylphenol	ug/L	ND	200	200	185	192	92	96	10-117	4	
4-Bromophenylphenyl ether	ug/L	ND	100	100	71.5	79.7	71	80	20-105	11	
4-Chloro-3-methylphenol	ug/L	ND	200	200	140	183	70	92	22-110	27	
4-Chloroaniline	ug/L	ND	200	200	127	162	64	81	20-100	24	
4-Chlorophenylphenyl ether	ug/L	ND	100	100	87.6	92.0	88	92	19-102	5	
4-Nitroaniline	ug/L	ND	200	200	292	265	146	133	29-110	10	M1
4-Nitrophenol	ug/L	ND	500	500	434	434	87	87	10-110	0	
Acenaphthene	ug/L	ND	100	100	82.7	85.8	83	86	17-100	4	
Acenaphthylene	ug/L	ND	100	100	86.7	90.6	87	91	21-100	4	
Anthracene	ug/L	ND	100	100	87.0	89.8	87	90	24-109	3	
Atrazine	ug/L	ND	100	100	113	115	113	115	50-150	2	
Benzaldehyde	ug/L	ND	100	100	ND	ND	3	3	50-150		M0

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Parameter	92195993004		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Benzo(a)anthracene	ug/L	ND	100	100	89.0	91.2	89	91	22-117	2				
Benzo(a)pyrene	ug/L	ND	100	100	98.0	100	98	100	23-104	2				
Benzo(b)fluoranthene	ug/L	ND	100	100	108	103	108	103	23-103	4	M1			
Benzo(g,h,i)perylene	ug/L	ND	100	100	90.1	94.1	90	94	18-111	4				
Benzo(k)fluoranthene	ug/L	ND	100	100	80.8	86.4	81	86	22-113	7				
Biphenyl (Diphenyl)	ug/L	ND	100	100	85.4	83.9	85	84	50-150	2				
bis(2-Chloroethoxy)methane	ug/L	ND	100	100	81.4	83.5	81	84	22-110	3				
bis(2-Chloroethyl) ether	ug/L	ND	100	100	89.1	101	89	101	16-110	13				
bis(2-Chloroisopropyl) ether	ug/L	ND	100	100	88.9	95.1	89	95	14-110	7				
bis(2-Ethylhexyl)phthalate	ug/L	ND	100	100	74.6	68.9	75	69	23-102	8				
Butylbenzylphthalate	ug/L	ND	100	100	85.0	81.6	85	82	25-110	4				
Caprolactam	ug/L	ND	100	100	46.7	73.0	47	73	50-150	44	M1, R1			
Carbazole	ug/L	ND	100	100	114	120	114	120	50-150	5				
Chrysene	ug/L	ND	100	100	90.6	93.6	91	94	23-115	3				
Di-n-butylphthalate	ug/L	ND	100	100	98.4	98.9	98	99	26-110	0				
Di-n-octylphthalate	ug/L	ND	100	100	86.0	83.3	86	83	22-110	3				
Dibenz(a,h)anthracene	ug/L	ND	100	100	93.3	97.2	93	97	21-112	4				
Dibenzofuran	ug/L	ND	100	100	94.0	99.0	94	99	19-102	5				
Diethylphthalate	ug/L	ND	100	100	94.8	93.0	95	93	29-110	2				
Dimethylphthalate	ug/L	ND	100	100	89.6	92.2	90	92	27-110	3				
Diphenyl ether (Phenyl ether)	ug/L	ND	100	100	84.5	85.1	85	85	50-150	1				
Fluoranthene	ug/L	ND	100	100	117	123	117	123	23-112	5	M1			
Fluorene	ug/L	ND	100	100	95.8	96.8	96	97	22-104	1				
Hexachloro-1,3-butadiene	ug/L	ND	100	100	74.0	68.0	74	68	10-110	8				
Hexachlorobenzene	ug/L	ND	100	100	78.3	85.9	78	86	21-116	9				
Hexachlorocyclopentadiene	ug/L	ND	100	100	91.1	76.5	91	76	10-110	17				
Hexachloroethane	ug/L	ND	100	100	93.5	98.3	93	98	10-110	5				
Indeno(1,2,3-cd)pyrene	ug/L	ND	100	100	96.4	100	96	100	20-113	4				
Isophorone	ug/L	ND	100	100	68.9	74.6	69	75	50-150	8				
N-Nitroso-di-n-propylamine	ug/L	ND	100	100	83.4	102	83	102	21-105	20				
N-Nitrosodiphenylamine	ug/L	ND	100	100	63.7	70.2	64	70	23-107	10				
Naphthalene	ug/L	ND	100	100	68.4	69.3	68	69	10-110	1				
Nitrobenzene	ug/L	ND	100	100	65.7	65.2	66	65	20-110	1				
Pentachlorophenol	ug/L	ND	500	500	198	200	40	40	10-118	1				
Phenanthrene	ug/L	ND	100	100	81.7	85.0	82	85	24-106	4				
Phenol	ug/L	ND	100	100	63.4	85.4	63	85	12-110	30				
Pyrene	ug/L	ND	100	100	70.5	67.3	71	67	24-114	5				
2,4,6-Tribromophenol (S)	%						95	101	27-110					
2-Fluorobiphenyl (S)	%						86	83	27-110					
2-Fluorophenol (S)	%						70	79	12-110					
Nitrobenzene-d5 (S)	%						67	67	21-110					
Phenol-d6 (S)	%						57	79	10-110					
Terphenyl-d14 (S)	%						70	67	31-107					

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC
Pace Project No.: 92195702

QC Batch: WET/30472 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92195702002, 92195702003, 92195702004, 92195702005, 92195702006, 92195702007, 92195702008, 92195702009, 92195702010

METHOD BLANK: 1176325 Matrix: Water
Associated Lab Samples: 92195702002, 92195702003, 92195702004, 92195702005, 92195702006, 92195702007, 92195702008, 92195702009, 92195702010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	04/11/14 10:11	

LABORATORY CONTROL SAMPLE: 1176326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.3	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1176327 1176328

Parameter	Units	92196432001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Alkalinity, Total as CaCO3	mg/L	46.7	50	50	96.2	98.2	99	103	75-125	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1176329 1176330

Parameter	Units	92196432004 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Alkalinity, Total as CaCO3	mg/L	106	50	50	151	155	91	99	75-125	3	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

QC Batch:	WETA/18649	Analysis Method:	SM 4500-Cl-E
QC Batch Method:	SM 4500-Cl-E	Analysis Description:	4500 Chloride
Associated Lab Samples:	92195702002, 92195702003		

METHOD BLANK: 1175993 Matrix: Water

Associated Lab Samples: 92195702002, 92195702003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	04/10/14 18:55	

LABORATORY CONTROL SAMPLE: 1175994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.2	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1175995 1175996

Parameter	Units	92196224008		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Chloride	mg/L	67.0	20	20	87.1	87.8	101	104	75-125	1				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

QC Batch: WETA/18710

Analysis Method: SM 4500-Cl-E

QC Batch Method: SM 4500-Cl-E

Analysis Description: 4500 Chloride

Associated Lab Samples: 92195702004, 92195702005, 92195702006, 92195702007, 92195702008, 92195702009, 92195702010

METHOD BLANK: 1179255

Matrix: Water

Associated Lab Samples: 92195702004, 92195702005, 92195702006, 92195702007, 92195702008, 92195702009, 92195702010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	04/16/14 16:20	

LABORATORY CONTROL SAMPLE: 1179256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1179257 1179258

Parameter	Units	92195024001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.							
Chloride	mg/L	2.1	20	20	23.2	23.3	106	106	75-125	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1179259 1179260

Parameter	Units	92195702004 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.							
Chloride	mg/L	3.0	20	20	23.4	23.4	102	102	75-125	0	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: AURIGA, SPARTANBURG SC
Pace Project No.: 92195702

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville
PASI-C Pace Analytical Services - Charlotte
PASI-G Pace Analytical Services - Greenwood

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.
L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92195702002	MW-116	EPA 9060A	GWD/1157		
92195702003	MW-118	EPA 9060A	GWD/1157		
92195702004	RW-119	EPA 9060A	GWD/1157		
92195702005	MW-114	EPA 9060A	GWD/1158		
92195702006	MW-402	EPA 9060A	GWD/1158		
92195702007	RW-115	EPA 9060A	GWD/1158		
92195702008	MW-401	EPA 9060A	GWD/1158		
92195702009	MW-132	EPA 9060A	GWD/1158		
92195702010	MW-134	EPA 9060A	GWD/1158		
92195702002	MW-116	EPA 3010	MPRP/15688	EPA 6010	ICP/14207
92195702003	MW-118	EPA 3010	MPRP/15688	EPA 6010	ICP/14207
92195702004	RW-119	EPA 3010	MPRP/15688	EPA 6010	ICP/14207
92195702005	MW-114	EPA 3010	MPRP/15688	EPA 6010	ICP/14207
92195702006	MW-402	EPA 3010	MPRP/15688	EPA 6010	ICP/14207
92195702007	RW-115	EPA 3010	MPRP/15688	EPA 6010	ICP/14207
92195702008	MW-401	EPA 3010	MPRP/15688	EPA 6010	ICP/14207
92195702009	MW-132	EPA 3010	MPRP/15688	EPA 6010	ICP/14207
92195702010	MW-134	EPA 3010	MPRP/15688	EPA 6010	ICP/14207
92195702002	MW-116	EPA 3510	OEXT/26857	EPA 8270	MSSV/8944
92195702003	MW-118	EPA 3510	OEXT/26857	EPA 8270	MSSV/8944
92195702004	RW-119	EPA 3510	OEXT/26857	EPA 8270	MSSV/8944
92195702005	MW-114	EPA 3510	OEXT/26857	EPA 8270	MSSV/8944
92195702006	MW-402	EPA 3510	OEXT/26857	EPA 8270	MSSV/8944
92195702007	RW-115	EPA 3510	OEXT/26857	EPA 8270	MSSV/8944
92195702001	MW-302	EPA 8260	MSV/26317		
92195702002	MW-116	EPA 8260	MSV/26317		
92195702003	MW-118	EPA 8260	MSV/26317		
92195702004	RW-119	EPA 8260	MSV/26326		
92195702005	MW-114	EPA 8260	MSV/26340		
92195702006	MW-402	EPA 8260	MSV/26340		
92195702007	RW-115	EPA 8260	MSV/26342		
92195702008	MW-401	EPA 8260	MSV/26342		
92195702009	MW-132	EPA 8260	MSV/26342		
92195702010	MW-134	EPA 8260	MSV/26342		
92195702001	MW-302	EPA 8260B Mod.	MSV/26316		
92195702002	MW-116	EPA 8260B Mod.	MSV/26316		
92195702003	MW-118	EPA 8260B Mod.	MSV/26316		
92195702004	RW-119	EPA 8260B Mod.	MSV/26316		
92195702005	MW-114	EPA 8260B Mod.	MSV/26316		
92195702006	MW-402	EPA 8260B Mod.	MSV/26316		
92195702007	RW-115	EPA 8260B Mod.	MSV/26316		
92195702002	MW-116	SM 2320B	WET/30472		
92195702003	MW-118	SM 2320B	WET/30472		
92195702004	RW-119	SM 2320B	WET/30472		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AURIGA, SPARTANBURG SC

Pace Project No.: 92195702

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92195702005	MW-114	SM 2320B	WET/30472		
92195702006	MW-402	SM 2320B	WET/30472		
92195702007	RW-115	SM 2320B	WET/30472		
92195702008	MW-401	SM 2320B	WET/30472		
92195702009	MW-132	SM 2320B	WET/30472		
92195702010	MW-134	SM 2320B	WET/30472		
92195702002	MW-116	SM 4500-CI-E	WETA/18649		
92195702003	MW-118	SM 4500-CI-E	WETA/18649		
92195702004	RW-119	SM 4500-CI-E	WETA/18710		
92195702005	MW-114	SM 4500-CI-E	WETA/18710		
92195702006	MW-402	SM 4500-CI-E	WETA/18710		
92195702007	RW-115	SM 4500-CI-E	WETA/18710		
92195702008	MW-401	SM 4500-CI-E	WETA/18710		
92195702009	MW-132	SM 4500-CI-E	WETA/18710		
92195702010	MW-134	SM 4500-CI-E	WETA/18710		

REPORT OF LABORATORY ANALYSIS

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Client Name: AECOM

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used: IR Gun T1102 T1301 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor T1102: No Correction T1301: No Correction

Corrected Cooler Temp.: 2.8 °C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Optional
 Proj. Due Date:
 Proj. Name:

Date and Initials of person examining contents: 4/2/14

		Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [Signature] Date: 4/2/14
 SRF Review: [Signature] Date: 4/3/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92195702

92195702

Chain of Custody and Analytical Request

Project Name / Location: Auriga, Spartanburg SC

Page _____ of _____
 Project Number: 60280417
 Chain of Custody Number (1): _____
 LIMS Number: _____

Client Name: Celanese

Collected by: Justin Butler / Randy Morgan

Project Manager: Bryon Dahlgren

Sample Analysis Requested

Quality Assurance Samples

Sample ID	Date Collected (dd-mm-yyyy)	Time Collected (hh:mm)	See Comments			Sample Information	Sample Analysis Requested							Quality Assurance Samples	Cooler ID			
			COMP	GRAB	Well		VOCS 8260	TOC	Alkalinity	Chloride	Dissolved Manganese	1,4 Dioxane (8260 SIM)	Dow Therm A					
MW-302	1-APR-2014	1300	X				X											
RLD-116	1-APR-2014	1455	X				X	X	X	X	X	X	X					
MW-118	1-1-RR-2014	1730	X				X	X	X	X	X	X	X					
RLD-119	1-APR-2014	1825	X				X	X	X	X	X	X	X					
MW-401	2-APR-2014	830	X				X	X	X	X	X	X	X					
MW-114	2-APR-2014	925	X				X	X	X	X	X	X	X					
MW-402	2-APR-2014	955	X				X	X	X	X	X	X	X					
MW-132	2-APR-2014	1015	X				X	X	X	X	X	X	X					
MW-134	2-APR-2014	1140	X				X	X	X	X	X	X	X					
RLD-115	2-APR-2014	1200	X				X	X	X	X	X	X	X					

COMMENTS
 92195702

Dissolved Manganese Field Filter

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received By (Signed)	Date	Time
<i>[Signature]</i>	4/2/14	1245	<i>[Signature]</i>	4/2/14	1245
<i>[Signature]</i>	4/2/14	1405	<i>[Signature]</i>	4/2/14	1405
<i>[Signature]</i>	4/2/14	1405	<i>[Signature]</i>	4/2/14	1405

Delivered Directly to Lab: Pace Courier
 Method of Shipment: Pace Analytical
 Analytical Lab: _____
 Lab Recipient: _____
 Sample Delivery Details / Laboratory Receipt
 Shipped: Airbill #: _____
 Location: Huntersville, NC
 Date: _____ Time: _____

1.) Chain of Custody Number = date collected + custody number (e.g. 01-19-2004-01)



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 12-6-13 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Daniel Bergman, Creamer, E. Hammond

BRIEF SUMMARY OF WORK PERFORMED: _____

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
8:00	ON S.F.
8:15	HCS Meeting
8:30	Install MW-120 Screen + Plug 44.7-55
9:30	Install Sand 7 Bags to 44.2 42.2
10:15	Bentonite 1 Bag to 39.7
11:00	Clean access to MW-116. Cut approx. 20' 2-3" diam. trees and 3 6-10" trees (diameters).
12:00	Grout MW-120 14 Bags + gel - 2 Batches MW-120 Generated 3 Drums of sol.
12:40	Clean up MW-120 area
13:10	Lunch
13:40	Decon.
14:30	Set up on MW-116
15:00	Drill MW-116
15:50	TD @ 32' refusal
16:00	Move 3 Drum Pan MW-120 inside & 1 Drum Pan MW-116
16:15	Rain - offsite

FIELD REPRESENTATIVES SIGNATURE: *Mark Dwyer* DATE: 12-6-13

PROJECT NUMBER: 60280417 DATE: 12-10-13 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Creamer, Bergman

BRIEF SUMMARY OF WORK PERFORMED: _____

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
800	ON S.E. = DECON
845	NE S meet
900	Drill MW-118 to 44.3 Auger Refusal Generated 3 Drums
930	Install MW-118 screen plug 34-44.3
940	Sand well to 32 7 Bags sand
1115	Hole plug to — 1 Bag
1130	Lunch
1230	Grout MW-118
1330	Clean up. Spread straw.
1430	Put 3 Drum from MW-118 inside Bldg 15 Drum soil from MW-112-120 inside Bldg.
1445	Haul Drill Rig to Auriga - Gorman
1500	Take down decon PAD.
1510	Put 3 Decon water Drum inside Building - Will water pump into a waste tank and haul to auriga
1600	Move to DM area - 28 Corn lucky coat iron hand holes were delivered
1615	Tom Jamison at Res. Bldg area - said he would issue permit in the morning
1630	Setup Rig on MW-122
1700	Offsite

FIELD REPRESENTATIVES SIGNATURE: *Mark Hartford* DATE: 12-10-13



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 12-11-13 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: well development

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0630		pack equipment - leave for Auriga Spartanburg
	0720	arrive on site
	0730	met Mark and drilling crew
	0753	safety briefing
0830		at Bruckner site
		calibrate YSI 556
		D DO% ambient air @ 18.01C 9.39
		Conductivity 17.67 1.278
		Ph 7.02 7.02
		Ph 4.00 4.00
		Ph 10.05 9.95
		ORP 237.5 237.5
		Turbidity accepts all standards 100, 10.0, 0.02 NTUs
0845		begin to develop MW-114 w/ teflon reusable bailer
0920		begin to develop MW-114 w/ Grundfos pump
1045		complete developing MW-114 126.6 gals removed
		decon the teflon bailer / Grundfos pump
1125		at Auriga site WWTP to empty development water
	1145	at MW-122 location where Mark is to cover for Thom White
		he's in a meeting during lunch
1200		lunch
1300		back on site to cover for Mark w/ drillers
1440		leave to go back to Bruckner site

FIELD REPRESENTATIVES SIGNATURE: Randy Morgan DATE: Dec 11, 2013

PROJECT NUMBER: 60280417 DATE: 12-12-13 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Dan Bergman, Creamer

BRIEF SUMMARY OF WORK PERFORMED: Well Installation

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
730	Off s.t
740	HRJ meeting Safe work Permit
810	Continue study MW-124 4 more Bags total 7 to 47.2
810	TO well w 60' 5.9 10' screen + 0.3 Plug
920	Add one Bag hole Plug to 44'
930	Drill crew off-s.t to purchase portland cement
1030	Grant MW-124 1 st Bag 47 lb + gel = 50 gal
1110	clean up.
1140	Lunch
1240	Decom Auger / 2 nd AE crew top off Grant @ BRUCKNER
1340	Drill MW-126 to 50' AR
1530	Install MW-126 16' screen + 0.3 Bottom Plug to 49.5'
1540	Sand well 7 Bags to 37.1
1610	Bedstone well 1 Bag to 34'
-	clean up / Pull Plugs.
1645	Grant MW 126 6 bag + Gel 47 th Bags
1725	Off s.t
	Randy Roudy:
	MW-116 - 65.5
	MW-120 - In Program

FIELD REPRESENTATIVES SIGNATURE: *Mark Huff* DATE: 12-12-13



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 12-13-13 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: D Bergman, TJ Creechman

BRIEF SUMMARY OF WORK PERFORMED: _____

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
700	ON SITE
740	HES MEET
750	Move to setup to Drill MW-136
800	Calibrate PID - Isochylene 99.9 ppm
900	Drill MW-136 to 40.5 bl 4 Drum Soil
1030	Install MW-136 ^{160.5} 2 in well 10' screen + 0.3 Golden Plug
1040	Sand well to 46.7 - 7 Bags
1140	Hole Plug to 43 1 Bag
1200	Leak
1250	Grout well 1 Bag + Cell
1330	Decon Auger
1415	Clean Access to MW-138
1430	Setup on MW-138 4 Drum Soil
1445	Drill MW-138
1620	Install MW-138 16' Screen + 0.3 Plug - to 59.6
1630	Sand well to 49.9 - well top off Monday
1700	Driller pack up.
	- Randy Well Development
	MW-120 finished - total 40.75 Gal
	MW-118 purge 43 gal
	MW-122 purged - 208 Gal

FIELD REPRESENTATIVES SIGNATURE: Mark Ward DATE: 12-13-13

PROJECT NUMBER: 60280417 DATE: Dec 12, 13 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: Well development

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0630		leave for Auriga Spartanburg SC
	0710	onsite calibrate YSI 554
		DO% saturated air @ 20.11 8.85
		Conductivity 1.278 @ 19.48 1.278
		Ph 7.02 @ 19.63 7.02
		Ph 4.00 4.00
		Ph 10.05 10.02
		ORP 237.5 237.5
		Turbidity meter accepts all standards 1000, 10.0, 0.02 NTUs
	0735	at Home depot to get barb fitting for 1/2 poly tubing to pump development water to truck from creek area.
	0800	on site take equipment to MW-116 at creek to muddy to drive
	0815	begin to develop MW-116 w/ bailer bailed out 10 gals
	0908	begin to develop MW-116 w/ ground pump max rate .5 GPM
	1052	complete developing MW-116
	1100	begin to pull up the 250 poly run through the wood and
		Secor pump / tetraon bailer
	1125	complete activities at MW-116
	1145	1245 lunch w/ Mark Hartford
	1250	empty poly tank of development water from MW-116
	1310	truck won't start had checked at Advance everything checked
	1340	at Buckner site AE Drilling crew on site to finish
		grouting up wells and the pads

FIELD REPRESENTATIVES SIGNATURE: Randy Morgan DATE: 12-12-13

PROJECT NUMBER: 60280417 DATE: Dec 13, 2013 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: well development

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0630		leave for Auriga Spartanburg
0710		calibrate YSI 956
		DO% saturated air @ 19.95 8.89
		Conductivity 1.278 @ 19.31 1.278
		Ph 7.02 @ 19.48 7.02
		Ph 4.00 4.00
		Ph 10.05 10.01
		ORP 237.5 237.5
		Turbidity meter accepts all standards 1000, 10.0, 0.02 NTUs
0730		set back up on MW-120 to continue developing w/ grinder
0745		pumped 120 GPM dry allow to recover to pump out again
0845		considered MW-120 complete of developing
0900	1030	off site
1030		at MW-118 set pump and begin to develop (batted in 127213) well is low yield, pump at .5 gals minute till dry (Surging)
		turn off for recovery - repeat until developed
1145		John Wakeman w/ AECOM on site to get walk thru of Bruckner bldg as client (celanee) instructed him to do have us show background and what information to fill out for another site.
1200		back at MW-118 continue developing w/ pump
	1245	Consider MW-118 developed.
1300		decon pump
1325		empty purge water at Auriga WWTP

FIELD REPRESENTATIVES SIGNATURE: Randy Morgan DATE: Dec 13, 2013

PROJECT NUMBER: 60280417 DATE: 12-16-13 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Hartford
Morgan

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Bergman, Crasman

BRIEF SUMMARY OF WORK PERFORMED: _____

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
1300	Hartford on site - See R Morgan for AM activities.
-	Completing MW-138
1310	HES orientation with Auriga - Perm. t
1330	Decon
-	Gary Winborne buildy Pads -
1400	Made Drums to storage area Place drum on pallets near WWTP in Bermed area -
	MW-138 - 5 ; MW-136-4 ; MW-122-4 ; MW-124 - 4
	MW-126 - 3 = 20
1515	Set up to drill MW-128
1525	Cal RAE 300 100.1 BSM
1535	Drill MW-128 to 60'
1705	Secure pump / drain -
1730	at 65.6'
	Gary Winborne prepared 4 Pads as Breaker for Pumping
	Randy develop
	MW-124 - 97 Gal
	MW-126 175.5 Gal

FIELD REPRESENTATIVES SIGNATURE:  DATE: 12-16-13

PROJECT NUMBER: 60280417 DATE: Dec 16, 2013 REPORT NUMBER: 1072

PROJECT & LOCATION: Auriga Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: well development / oversight MW-138

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0630		leave AECOM for Auriga Spartanburg
	0708	arrive on site
0715		calibrate YSI 556
		DO% saturated air @ 20.40° 8.76
		Conductivity 1.278 @ 20.55 1.278
		ph 7.02 @ 20.51 7.02
		ph 4.00 4.00
		ph 10.05 10.03
		ORP 237.5 2375
		Turbidity meter accepts all standards
		at MW-124 fog bottom & WL well was under pressure waiting for stabilization.
0753		begin to haul develop MW124 (124)
0805		begin developing MW124 w/grundfos pump
0821		Mark called will be in late. I need to be w/ drivers when they show up
	0910	drivers on site - unloading drums & supplies
	0935	finish developing MW-124
		decom feather batter & grundfos pump
0953		at MW-138 to oversight well completion
	1000	finish putting sand up to 46.7' BGS
	1008	bentonite up to 43.5' BGS
	1047	begin to mix grout - portland cement (6 Bags)

FIELD REPRESENTATIVES SIGNATURE: Randy Morgan DATE: Dec 16, 2013

PROJECT NUMBER: 60280417 DATE: 12-17-13 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Hartford Morgan

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Bergman, Creasman

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Install & Decom
Gary Winburn - Pad construction at Bruckner.

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
730	o.w s.b
745	H.S. meet. - Safe work Permit
8W	Take Down Decom PAD
815	Prep to install MW-128 - Cal PED - 101.1 PPM
820	Install MW-128 10' screen + 0.2 Plug TO TD of 60.9
825	Sand MW-128 7.5 Bags @ 47.5'
920	Take plug 1 Bag to 45'
1015	Pump Grout MW-128 3 94# Bags + Gall. Batch #1
1035	Pump Grout MW-128 3 94# Bags + Gall. Batch #2
1100	Build Decom Pad inside Fero - 1 Decom Auger
1140	Land
1230	Decom. Spread 7 Bags straight MW-138 Access. - need to order load of gravel for Jam for this loc.
1330	Cut Asphalt at MW-130 Air liquids
1400	Drill MW-130 to 60.7 - 6 Soil Blows
1600	Install MW-130 to 60.7 with 10' screen + 0.2 Bottom Plug
1610	Sand MW-130 to 47.5' - 7 Bags
1620	Bentonite MW-130 to 44.5' 1 Bags
	- Gary Winburn completed well pads at Bruckner
	- Randy Morgan finished development
	MW-136-74.5 gal MW-136, MW-138 & MW-128
	MW-138 206 Gal
	MW-128 69 Gal

FIELD REPRESENTATIVES SIGNATURE: *Mark Hays* DATE: 12-17-13

PROJECT NUMBER: 60280417 DATE: Dec 17, 2013 REPORT NUMBER: 1 of 2

PROJECT & LOCATION: Auriga Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: well development

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0630		leave for Auriga Spartanburg
0708		arrive on site - calibrate YSD 556
		DO% saturated air @ 19.41 8.94
		Conductivity 1.278 @ 19.64 1.278
		Ph 7.02 @ 19.76 7.02
		Ph 4.00 4.00
		Ph 10.05 10.01
		ORP 2375 2375
		Turbidity meter accepts all standards 1000, 10.0, 0.02 NTUs
0726		at MW-136 continue to develop w/ groutless
0734		begin pumping - developing MW-136
	0900	Completed developing MW-136 decon pump + tetlon boiler
0915		at MW-138 begin to develop w/ boiler
0935		begin developing MW-136 w/ groutless pump (very high producer)
	1130	Complete developing MW-136
	1145	empty 2nd tank of water
		decon pump + tetlon boiler
1200		lunch w/ mark - purchase straw to put out at MW-138
1245		spread straw
1337		at MW-128 begin to develop w/ tetlon boiler
1358		low yield well begin developing w/ groutless pump keep turning pump off to allow well to recharge
	1630	Complete developing MW-128

FIELD REPRESENTATIVES SIGNATURE: Randy Morgan DATE: Dec 17, 2013

PROJECT NUMBER: 60280417.610 DATE: Dec 18, 2013 REPORT NUMBER: 105
 PROJECT & LOCATION: Auriga Spartanburg
 CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Meyer
 SUBCONTRACTOR: _____
 SUBCONTRACTOR PERSONNEL ON SITE: _____
 BRIEF SUMMARY OF WORK PERFORMED: Well development

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0730		leave to go to program part to get groundfor pump repaired
0805		leave for Auriga Spartanburg
	0843	arrive on site - calibrate YSI 556
		D0% saturated air @ 19.93 8.83
		conductivity 1.278 @ 20.03 1.278
		Ph 7.02 @ 20.14 7.02
		Ph 4.00 4.00
		Ph 10.05 10.01
		ORP 237.5 237.5
		Turbid meter accepts all standards 1000 10.4 0.02 NTU's
	0908	at MW-114 to switch out well cap
0918		on site at MW-130 well just completed need to wait for grout to dry.
1100		at MW-130 begin to bail to develop WL 53.42 not much water will use bailing method more than normal then
	1153	switch to groundfor
1200	1300	lunch
1310		back at MW-130 bailed 5 more gals for total of 20 gals
1337		begin to use groundfor to develop MW-130

FIELD REPRESENTATIVES SIGNATURE: Randy Meyer DATE: Dec 18, 2013

PROJECT NUMBER: 60280417 DATE: 12-19-13 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Hartford

SUBCONTRACTOR: AE Drilling Services Morgan

SUBCONTRACTOR PERSONNEL ON SITE: Bergman, Colesman

BRIEF SUMMARY OF WORK PERFORMED: Install, Develop Monitoring wells

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
730	On site
740	Obtain safe work permit from Auriga
800	Clear Rec Area Parking Lot with Blower
800	Grout MW-132 Batch #1 3 #94 Bags Portland + Gel
830	Batch #2 3 #94 Bags Portland + Gel
900	Batch #3 3 #94 Bags Portland + Gel
940	Clean up - 5-Hour Clean
1030	Move Rig to MW-134
1100	Saw cut Asphalt at MW-134
1130	Lunch
1215	Move down - to staging area MW-128 (S), MW-130(S), MW-132 (S)
1330	Drill MW-134 to 75.5'
1600	Install MW-134 - to 75.4' 10' screen + 0.3 Plug
1620	Sand well 7 Bags to 62.8'
1630	Backfill well 1 Bag to 60'
1710	Grout Batch #1 3 #94 Bags Portland + Gel
1730	Grout Batch #2 3 #94 Bags Portland + Gel
	Develop MW 132 - 92.5 GPD
	- Initial Inventory in staging area - 35

FIELD REPRESENTATIVES SIGNATURE: *Morgan* DATE: 12-19-13

PROJECT NUMBER: 60280417 DATE: Dec 19, 2013 REPORT NUMBER: 1 of 1

PROJECT & LOCATION: Auriga Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: well development / clean parking lots of mud.

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0630		leave for Home Depot Spartanburg to pick-up leaf blower
0715		return leaf blower to blow off parking lots and roadways at Home Depot.
	0738	arrive on site - calibrate YSI 556 water quality meter
		DO% saturated air @ 20.45 8.79
		conductivity 1.298 @ 19.38 1.298
		Ph 7.02 @ 19.40 7.02
		Ph 4.00 @ 19.71 4.00
		Ph 10.05 10.02
		ORP 237.5 237.5
		Temperature meter accepts all standards 1000, 100, 002 NTU's
0745		Health & Safety briefing - while calibrating meter
0805		begin to clean parking lot and roadway of mud
1100		at MW-132 begin developing w/ bailer
1130	1230	lunch
1235		back at MW-132 continue developing w/ groundwater pump
	1430	complete developing MW-132
1438		empty development water
	1455	off site to Home Depot to return leaf blower
	1600	back at AECOM office End of day

FIELD REPRESENTATIVES SIGNATURE: Randy Morgan DATE: Dec 19, 2013

PROJECT NUMBER: 60280417 DATE: 12-20-13 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Bergman, Crisman

BRIEF SUMMARY OF WORK PERFORMED: Grout + Well Pads

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
740	on site Auriga Site work permit
800	Top off Grout MW-134, MW-132, MW-130, MW-128
930	- Collect Trash - From DM & Bowker
1020	Surface completion MW-128 - Decur Auger
1100	Called Greg Jenkins w D&F re quick turn 3-4 day - Chromium sample collected Jan 8-10 and possibly - Jan 20-22 - He will deliver bottles to facility and get back to me on TRT -
1100	Surface completion MW-130
1140	Surface completion MW-134
1230	Surface completion MW-132
1250	Surface completion MW-128
1300	Move Drums to staging area - MW-134 (6) Total 41 Empty drum water drum full WWT P - store empty drum water drum in staging area
	- Secure decur Pad/Pump water off - will leave for Rockwell (see)
1430	OT's
	Munday - Finish 5 Pads
	Develop - MW-134

FIELD REPRESENTATIVES SIGNATURE: Mark Darrif DATE: 12-20-13

PROJECT NUMBER: 60280417 DATE: Dec 23, 2013 REPORT NUMBER: 1 of 2

PROJECT & LOCATION: Auriga Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: Well development / install wells in all wells newly installed (inside vault)

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0700		leave for Auriga Spartanburg - purchase gas for van
0800		on site Calibrate YSZ 356
		DO% saturated air @ 18.97 8.97
		Conductivity 1.278 @ 18.71 1.278
		Ph 7.02 @ 19.16 7.02
		Ph 4.00 4.00
		Ph 10.05 10.02
		ORP 237.5 237.5
0823		Turbidity meters accepts all standards 100U, 10.0, 0.02 NTUs called Shay about obtaining safe work permit, Shay said with what I and drillers were doing today we did not need one. No work permits issued
0830		R Morgan at MW-134 begin to develop w/ batter Daniel Bergman w/ AE Drilling on site to pour well pads at 5 remaining wells outside fenced area, obtained well tags to place in wells when complete developing.
	1050	complete developing MW-134, decon pump
	1108	empty development water
1120	1200	put well tags in well inside fence and remove cones
1200	1300	lunch
1300		put well tags in wells at Bruckner Road site
	1338	back at Auriga site
1300		driller back from lunch to continue well completion

FIELD REPRESENTATIVES SIGNATURE: Randy Morgan DATE: Dec 23, 13



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 1/10/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnett, Carlos Swain, John Gorman

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Installation

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
730	On site.
800	Obtain safe work permit from Auriga
830	Purchase 7 Bags straw from id Dept
900	Drill crew 1400 portland cement.
930	Prop to Grout R4-127
946	Grouted 6-in core via frame and grout shoe - - 16 40 lb bags -
1000	Drill Rig is stuck trying to get out
1030	Wrecked on site pulling out drill rig - Call T. Jamison re leaving the drum until it dries out. He said OK.
1100	met with Tim Jamison re - r45 - He said that he will send an e-mail to let facility personnel know that we will take care of it when it dries out
1130	Wrecked site to get different equipment to get support truck out.
	Randy will get as from PAR grading to repair R45. Total 12 Drum Drill Mud.
1330	Toll company back - pulls out support truck.
1400	Decon Drill Tools
1420	Clean up mud Cook Dinner
1500	Demob

FIELD REPRESENTATIVES SIGNATURE: _____ DATE: _____

PROJECT NUMBER: _____ DATE: 1-21-14

PROJECT & LOCATION: Amiga

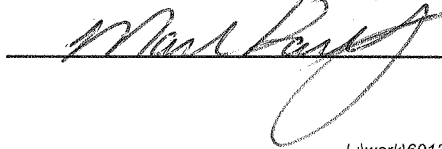
CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Hartford

SUBCONTRACTOR: AE Drilling

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnett, Carlos Swain, John Gorman

BRIEF SUMMARY OF WORK PERFORMED: _____

TIME	DESCRIPTION OF ACTIVITIES
815	On site - Tim Jameson asked that I send him an e-mail with schedule for the week -
	Called Tony Perna w PAR grading to schedule meet 864-680-8404
830	Safe Work Permits for Amiga -
900	Unload AirV, fill water truck,
1000	Set up on location RW-125 with CM750 for shaft casing b.t circumference 8.38 ft = 9.2 diameter
1045	Drill mud / Load Rotary RW-125
1200	Load
1230	Drill RW-125 shaft casing -
1340	move Drums from RW-12 area to Low Bay in Rec parking Lot.
1400	RW-125 at 53'
	PO went to Perna Grading for \$2,500. \$2,500 was added to the original quote to cover the new 3rd area near the Rec building that needs work
1600	Top of Rock at 73 MW-12# is at 60'
1615	Circulation mud Pump quit work - work on Pump and drain hoses and pump. Had freeze tonight. - 2 Drums of mud so far.

FIELD REPRESENTATIVES SIGNATURE:  DATE: 1-21-14



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 1/22/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnette, Carlos Swain, John Gorman

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Installation

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
800	On site. NEES Meet / Auriga Safe Work permit
830	Set up air compressor and wildcat air diaphragm pump Mud pump on rig not working.
840	Move 2 drums from RW-125 area to low bay trailer in parking lot.
900	Fill mud drum from mud tub.
945	Resume drilling Rock socket 73-76
1030	Pump off Mud Tub
1040	Put Rock
1110	Install 6-in SCL 40 PVC casing to 76' - RW-125
1230	Lunch
1320	Go out RW-125 Batch #1 9 Bags + Gel
1430	Batch #2 - 7 Bags + Gel - Total 150 gal
1615	Off load Mud Drum in storage area RW-127-12 RW-125-20 Total 32 Drums - Plan to try to consolidate later, pump water off and transfer to WHIP.
1650	Load case 750 -
1700	off site.

FIELD REPRESENTATIVES SIGNATURE:  DATE: 1/22/14



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 1 28 / 14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnett, Carlos Swain, John Gorman

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Installation

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
8:30	Out site Auriga safe work permits
9:00	Resume drilling RW-131 mud rotary for surface casing - Consolidate drill mud drum - - Pump off decomposed water & haul to WWTP
11:40	Lunch
12:30	Pull Rod
1:30	Install 6-inch PVC casing - RW-131 - Recd. approval from Brian DeBlaze to use the former GW Eq. tank for thin mud/water deep temp storage - limited to mill that can be pumped with a sump pump - not notified Chuck Amher. He will notify his supervisor and start drawing water in the tank tomorrow so we can start with an empty tank.
1:40	Casing will not go to the bottom. - stuck won't go upon down. - work on pre casing.
1:50	Casing will not budge. 27 drum filled - circulation through turbine pump but casing is stuck. Haul drum to storage area from RW-131 - 24th drum to storage area - 4th WWTP tank pumped off It planned well sit
2:15	OBS sit due to snags, out of drum, will tremie cements inside and outside casing tomorrow

FIELD REPRESENTATIVES SIGNATURE:  DATE: _____



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 2 4 14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnett, Carlos Swain, John Gaine

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Installation

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
800	on site
815	Auriga Safe work permit
830	Drill RW-129 to Auger Refund at 77 ft
930	Switch to air hammer for rock socket
1000	Work on drill R.j top hook chain
1030	Switch over to air hammer for rock socket
1100	Pump 150 gal water from mud sump off and transfer to well TP
1115	Drill socket 77-88 85-88 Head RW-129
1200	Pull Drill tube
1210	Insert casing into Auger with gravel shoe Auger filled with mud to 50
1300	Drill Auger deeper in attempt to seal
1530	Connect diverter again
1700	Clean out hole with air. Will have to flush with water tomorrow to clean mud out of hole - It is sticky to the side of auger and not enough water in hole to aid in flushing. Cover Pullup 3

FIELD REPRESENTATIVES SIGNATURE: _____ DATE: _____



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 2, 6, 114 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnett, Carter Swain, John Garner

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Installation

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
800	Auriga Safe Work permits.
815	Down
930	Setup on location: RW-133 Saw cut asphalt
1000	Mud Rotary drill RW-133 9 1/4" roller bit. Haul mud directly to mud siltuff in skid steel bucket
1100	isolate Pump 150 Gal clean water from mud siltuff and haul to WWTP
1130	end
1230	Continue drilling RW-133 at 27'
1400	Pump 150 gal of clean water from top of existing mud column and transfer to WWTP.
1500	Drill Rock socket RW-133.
1600	Drill cross cut s.t. Steel casing will be here in the AM
1630	Pumped 150 gal clean water from top of existing mud column and haul to WWTP
-	Total 450 gal today

FIELD REPRESENTATIVES SIGNATURE: _____ DATE: _____

PROJECT NUMBER: 60280417 DATE: 2/17/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnett, Carlos Suarez, Dave, John Carme

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Installation

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
815	on site
830	Safe Work Permit
900	Drill crew on site - Bought compressor to use air drilling next week with the cone 750
	Shag said Recycle filter don't want us to use them dump for
930	Pump 150 gal water from mud roll-off and dispose at LWTF
	- Recd. AEO Rates will work up on/capex
	- Schedule PAA Casing for some time next week - WIA call
930	Clean out hole - thin mud
1000	Get load of water at LWTF
1100	Pull tools, prep to set casing
1130	Install 6" ID welded steel casing in 21' section
	x 4 + 6' find section = 90' slip joint shoe on bottom -
1300	Unload cement - take water truck back to LWTF to fill.
1330	Load
1430	Get RLW-133 casing via trailer? slip joint shoe - 25 #40 bags
1530	ON CON
1630	off site

FIELD REPRESENTATIVES SIGNATURE: _____ DATE: _____

PROJECT NUMBER: 60280417 DATE: 2/10/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnett, Carlos Swain, Nate Hawthorn

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Installation, Packer Test

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
900	On site - Always safe work permit
930	Pump 150 gal water from mud sump and transfer to WWTP
1000	Safety orientation for Nate Hawthorn
1000	Setup for Rock Drill RW-129
1030	Trip Rock to Base of Core
1130	Lunch
1230	Drill Rock RW-129
1330	Stop at 105' Pull Rock
1415	Transfer 150 Gal water from packer drilling hopper to WWTP
1425	Pump 88.5-105 zone Pump at 103'
1505	Sample RW-129-105 (88.5-105)
1510	Trip Rock Back into hole
	Transfer 150 Gal water from packer drill/sump to WWTP
1600	At 120' Pull Rock
1620	Rock out
1645	Transfer 150 gal water from RW-129 Hopper to WWTP
	~300 Gal contained to disposal of dunnage

FIELD REPRESENTATIVES SIGNATURE: *Mark Hartford* DATE: 2/10/14

PROJECT NUMBER: 60280417 DATE: 2/14/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnett, Carlos Swain, TJ Cremona

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Installation

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
815	on site
820	Auriga Site Work Permits
	Prep to Rock drill RW129 120-135 interval for
	GW Sample - Calibrate YSI & PID.
900	Roe 3000 Cal 99.2 or 100 PPM Isobutylene
	YSI - DO- 10.06, PH 7.01, PH. 4.03, SC 1.142 mg/cm, ORP - 239.5 mV.
915	Transfer stored IOW water in Dopper to Poly tote
930	Drill 120 - 135 Transfer 600 gal to mud rollout
1030	Pull Rods
1045	Install Packer to 120 Install to 200 PPS
1120	Purge 120-135 zone Drg did not receive
1200	Lunch
1300	Prep to Drill 135-150
1330	Drains 150 Gal water to LWTP
1315	Drill 135-150
1415	Pull Rods -
1445	Reel Rock Chip slurry to mud rollout in dopper
1445	Install Packer to (130-135) open 135-150
1512	Purge RW-129-150 (135-150) zone
1737	Sample RW-129-150
1740	Clean up
1730	off site

FIELD REPRESENTATIVES SIGNATURE: Mark Hartford DATE: 2/14/14

PROJECT NUMBER: 60280417 DATE: 2/17/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnett, Carlos Strain, Nate Hawthorn, Dan Bergman, JS Curran

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Installation

Relinquished RW-129-150 sample to Paul Cooney

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
800	On site
830	Auriga Safe work Permit
900	Transfer 350 gal water from RW-129 to mud roll-off
	Decor Risk & Jobs
	- feedback from Chuck Amick to permit off color water to WWTP
	- Chuck collected a sample from roll-off & checked PH & COD.
1000	Dan ordered skid steel & hopper - set up CME 550 on location RW-137 - set up Schium on RW-137 135
1100	Transfer 150 gal water from RW-129 down to WWTP
1200	Lunch
1300	Continue setup at RW-137
	- Contact AEO re schedule - may need additional roll-off at Brackner next week or end of this week - order Roll off for Brackner Friday
1330	Start drill RW-135
1400	Call SPT water to have hydrant meter made this week
1430	Call PDR Brady - shut for wed/Thu this week
1600	Transfer 150 Gal water from RW-129 down to WWTP
1640	Transfer 150 Gal water from RW-129 down to WWTP RW-135 - stop at 106 for the day - met TD, RW-137 - setup at 20' and PD
1705	Off site.

FIELD REPRESENTATIVES SIGNATURE:  DATE: 2-17-14

PROJECT NUMBER: 60280417 DATE: 2/18/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

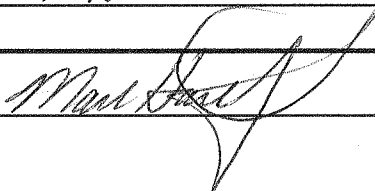
SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnett, Carlos Salinas, Nathaniel Thomas, Dan Bergman, JS Graham

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Installation

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
800	ON S.T.
	Assign Safe Work Permit 135
830	Schram Continue on RW-135 106-121 -15
	CME 53 Continue on RW-137 121-123 -2
900	Transfer 150 gal from mud pit-off to LWTP
	RW-129-105 3.88 msp RW-127-120 -3.29 msp 137
1130	Steel Pipe & Portland delivery 20-87-67
1230	Lunch 87-89.5 -25
1330	Transfer 150 gal from mud pit-off to LWTP
	RW-135 competent rock @ 121-123
1400	Install 6-in OD steel surface casing RW-135 - 123
1600	Install furniture inside casing
1630	Transfer 150 Gal water from mud pit-off to LWTP
1700	Transfer 150 Gal water from mud-pit-off to LWTP
	RW-135 to Grant tomorrow
	RW-137 to off clock hole & set casing + grant tomorrow -
	Transfer 600 Gal to LWTP
	Schram + RW-129 SAT SPT water hooked up hydrant meter on start other logs at Brinkner
	CME to RW-139 next
	AEO to meet at site tomorrow AM - PAR - Lito Knowles

FIELD REPRESENTATIVES SIGNATURE: _____



DATE: 2-18-14



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 2/19/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnett, Carlos Swain, Nate Hawthorn, Dan Bergman, TS Cresman

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Installation

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
830	ON s.t. - Pump clean water from mud roll-off
800	Auriga Safe work permits
830	Transfer 150 gal water from mud - roll-off to WWTP
900	- RW-135 Prep to grout casing
900	RW-137 Prep to install casing
930	Grout RW-135 46 #47 Bags grout
930	Install Casing RW-137 to
1000	ABO Josh on site to plan drum emptying and roll-off delivery.
1030	PAR Grady to start gravel work at RW-139 & - Several Buckhorn locations
1215	Transfer 150 gal water from mud roll-off to WWTP
1300	Ordered 9 sets chloroform aquam & 4 sets soil/mud VOC, 1,4D, PCRA metals
1300	Grout RW-137 - 160 gal 12 Bags + Cell
1300	PAR Grady work on RW-139 area - 3 loads stone
1300	Deco Schramm Setup on RW-129 to Rock drill to 165'
1430	Transfer 150 gal water from Mud roll-off to WWTP
1500	Drill RW-129 to 165 set packer 147-150
1400	Deco CME Setup on RW-139
1730	OFF s.t.

FIELD REPRESENTATIVES SIGNATURE: _____

DATE: 2-19-14

PROJECT NUMBER: 60280417 DATE: 2/20/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnett, Carlos Swain, Paul Bergman, TJ Cherman

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Installation

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
800	CME 550 Prg to Mud rotary & set core at RL-139 Schram Prg to Packer sample & RL-129
830	Runriga Safe with Pump
900	Transfer RL-129 drill water 300 gal directly to WSTP
900	Recon quantity Pump. - Packer at 260 PSI set Crown for Pump inside drop pipe for 150165 samples Due to very slow recovery after 2" rods were evacuated the interval was determined dry. slow recovery could have been packer leakage
1050	Drill 165-180
1130	Pull Drill Rods
1145	Install Packer 162-165
1234	Pump dry after 1 Rod up 20 gal
1335	only recovered 11.5 ft. Carl Bergman D. Reids dry zone
1345	Pull Packer
1530	RECON
1630	Set up on RL-125
1730	RL-139 continue mud rotary drilling off site
	Packer 2 + 2
	Recon 1

FIELD REPRESENTATIVES SIGNATURE: Mark Hartford DATE: 2-20-14



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 2/21/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnett

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Installation

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
800	ON SITE - Rain - Drill crew not on site
900	Schem crew empty Hopper for mud box
930	AEQ deliver Fork lift. prep to empty drums. - CME 550 Prep to set casing at RW-139
1020	AEQ deliver Rolloff - AE Drilling Hopper not working - decide to use rolloff box at RW-125 - AEQ will bring another Box for mud
1130	Lock
1215	Drill Rock RW-125 Target 146'
1330	CME crew set casing at RW-139 to 88 ft - Great casing 3 Batches 7 Bg ea 21 Bg. T get
1330	RW-125 at Target. No free. no water during drill. Sit 15 min produce 1/4 GPM Mud - PL 11.6. Talk with Bryan - Drill to 160 no change
1410	Roll Rock - Decur
1630	off site - Schem t crew.
1630	Pumper 150 GPD water from mud rolloff to WHSP. - This area is ready for sample AEQ. Filled Sol Pallet H with Sep Well Drum - In process fill Mud/box with mud drum - Exist mud box will be fill from mudbox - RW-125 Boxes will be moved for RW-137/RW-139 wells Mar - Will need new box at location on Wed

FIELD REPRESENTATIVES SIGNATURE: Mark Hartford DATE: _____

Plan to sample 3 Boxes on Monday for Q.T. AEQ out of Boxes

PROJECT NUMBER: 60280417 DATE: 2/24/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

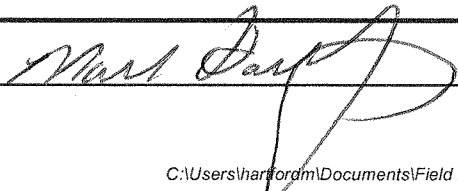
SUBCONTRACTOR: AE Drilling Services / AECU

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnett Dan Bergman TJ Cannon

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Installation

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
800	Prep to sample Roll-off -
830	Sample mud roll-off - 1 TCLP VOL. 140, RCRA metal
830	AE crew Prep to Rock drill RW-139
915	Sample Sol Roll-off - 1 TCLP vol, 140, RCRA metal
930	Sample mud roll-off - 2 TCLP vol, 140, RCRA metal *
930	Design Site Work Permit
935	- AECU empty remaining mud drum out mud drum - 2 * Sampled drum to be emptied -
910	Spoke w Bryan re - RW-125 - may construct 2 - in well - in Rock hrd - Interval to be determined. - Let M-Eva know to start on Boring / well con logs.
940	Moved RW-125 Roll-off - to RW-137 / 139 area.
1100	Drill crew ^{continue} set up to air drill at RW-139. Move compressor / decur etc.
1050	Released roll-off samples to DACE / M&E
1230	Set up to Drill RW-139 - Drill to 97' - Good Penetration at 95'
1600	Move compressor out / stuck. Attempt to pull W AEO fish / stuck - Spoke w Bryan re - RW-129 - saw 135-150 Bentonite 157-158.
1700	Clear up
1730	off site

FIELD REPRESENTATIVES SIGNATURE: _____



DATE: _____

PROJECT NUMBER: 60280417 DATE: 2/25/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnett, ~~DAN~~ Bergman, John Gorman

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Installation

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
800	ON SITE - HRS meeting
815	Set up CME 550 & Air Compressor on RW-137 - Target depth 107'
820	Calibrate mini Rec 99.7 ppm - 100 ppm isomethyl
900	Decor / load water -
1000	Transfer 150 gal water from RW-139 to WWT
1020	Drill RW-137 to 107' - Free at 98.5'
1130	Lunch
1300	Blow air in RW-137 air lift develop - PL 8.8
1430	Plant hub w/air PL 8.15 - total = 500 gal
1520	Transfer 150 gal water from RW-137 to WWT
	Drill crew prep to move to Machine & Install RW-137/139
	Tomorrow 2-1/2" PVC w/10' screen
1700	Transfer 150 gal water from RW-137 to WWT.
	Plan to set
	RW-137 - screen 97-107 Free 98.5
	RW-139 - screen 87-97

FIELD REPRESENTATIVES SIGNATURE: _____



DATE: _____



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 2/27/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: M. Law
Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnett, Dan Bergman, TJ Cozman

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Installation drilling surface casing RW-115

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0735	Onsite at RW-137/139 drilling location, waiting on drillers
0801	Called Dan; drillers running behind, on their way over.
0810	Called Josh w/ AEO to confirm Hopper replacement & rolloff moving schedule for RW-137/139 rolloff to Buckner; left message.
0830	Drillers onsite, H&S meeting; drillers to finish moving equipment over to Buckner side, then setup and drill RW-115 surface casing.
0932	Josh w/ AEO called and confirmed rolloff is scheduled to be move over to Buckner Rd mid-morning. Dan says that water truck is overheating and that they need to go off site to grab part to fix it. (play for a hose fitting).
1020	Josh w/ AEO onsite to drop off rolloff RW-137/139.
1034	Alarm system Tech ^{"Tony"} onsite to check out Alarm in Buckner Rd Building. Josh offsite.
1058	Drillers back onsite, setup on RW-115 to drill surface casing.
1130	Tony says that either the dialer or modem is not working, replace would require an upgrade to the control panel. Alarm left off. Tony offsite.
1149	Break for lunch
1240	Back onsite, continue setup on RW-115
1350	Start mud rotary drilling on RW-115
1710	stop @ 485' Bgs, drain pumps & winterize rig; will continue drilling tomorrow morning.
	Offsite, lockup gate; noa back to office; End of Day

FIELD REPRESENTATIVES SIGNATURE: J. Mark Hartford DATE: 2/27/14



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 3/3/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: M. Law
Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Tommy Burnett Dan Bergman, TJ Casemich

BRIEF SUMMARY OF WORK PERFORMED: Monitoring Well Installation drill + packer test RW-115

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0830	Onsite at Bruckner; waiting on drillers, moderate rain falling.
0840	Drillers called, they are running late after their staff meeting, on their way now. Celebrate YSI.
0928	Drillers onsite; H&S meeting, prep to drill out and conduct packer test at 15' intervals on RW-115.
1245	Drillers finished switching tooling over to Air Hammer, start drilling from 57.5' Bgs to 74.5' Bgs.
1330	Stop @ 72' Bgs, water blowing out of MW-114; called Mark Hartford. He said to try continuing to 75' Bgs then packer test.
1422	@ 75' Bgs, water still spewing from MW-114, stop Pull tooling + Rods, drill thinks soft soils from 60'-72', then Rock to 75'.
1450	Loss 6' after pulling tooling, inside of casing is covered in cuttings from cyclone getting jammed up from all the mud. Drillers checking with shop to see if 5" casing is reasonable to use. MOB over to RW-129 to seal bottom 25' with coated bentonite pellets.
1515	Onsite @ RW-129, called Tim Jameson for SAFE work permit approval, He said none needed.
1545	Added five buckets of coated pellets lot Hydrate; tagged top of seal @ 164.4' Bgs. Will need to add more to get to 155' Bgs. site clean up
1600	Offsite, MOB back to Office; End of Day.

FIELD REPRESENTATIVES SIGNATURE: J. Pugh DATE: 3/3/14

PROJECT NUMBER: 60280417 DATE: 3/10/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Spartansburg

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: M. Law

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Dan Bergman, TJ Caseman

BRIEF SUMMARY OF WORK PERFORMED: Installation of RW-119 surface casing, drilling & Installation of RW-117 surface casing

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0815		Onsite, waiting on drivers; start pump off water portion of Mudroll off into Tanker at Brackner
0842		Called Josh w/ AEO to setup meeting to dump three rolloffs at location provided by Westwater personnel at Auriga. Josh to be onsite at 10am.
0908		Over at Auriga, meet w/ WW personnel to see where they wanted rolloffs dumped by fence behind former Maintenance Building. Drillers still at Brackner Rd installing surface casing at RW-119.
1005		AEO onsite to dump rolloffs at Auriga side.
1035		Dumped first Mud roll off, mostly mud, Chuck @ Auriga said not very useful soil and not to dump the other roll off of mud here other than the the with soils in fine. AEO onsite to drop other empty roll off will return to dump soil roll off only, then return this roll off and deliver to Brackner.
1050		Chuck talked w/ Bill @ Auriga, decided to dump two remaining roll offs down by roll off outfall #3 off access road outside fence area.
1216		AEO finished dumping the other two roll offs; will come back with small excavator to pick out liners after delivering roll off to Brackner
1320		AEO onsite at Brackner to drop off second roll off; Drillers grinding in surface casing @ RW-119, hole had to be flushed out since sitting over the weekend.
1508		AEO finished pulling liners out of dumped materials from roll offs, Drillers moving over to RW-117 location to setup to drill surface casing.

FIELD REPRESENTATIVES SIGNATURE: J. M. Law DATE: 3/10/14

PROJECT NUMBER: 60280417 DATE: 3/12/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Spangenberg

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: M. Law

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: (Bill) Don Bergman, TJ Casanova (Pete) John Gunn, Jeff Roubal

BRIEF SUMMARY OF WORK PERFORMED: Install temp casing in RW-115, packer test.
pad completions on RW-137 & 139

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0753		Onsite, waiting on drilling crews
0808		Second crew onsite, waiting on driller.
0830		Driller onsite, had lockal keys in his truck, H&S meeting, 5" Air Hammer onsite so crews moving rig over to RW-115 hole to run 5" PW rods as temporary casing down to 75' Bgs, then start packer testing. Second crew over at RW-125 to abandon borehole which is 166' using grout machine, then move down to RW-137 & RW-139 to complete pads.
1120		Drillers finish PIZONING PW rods & rig, rig setup back up on RW-115 second crew working to grout up RW-125, break for lunch.
1219		Back onsite, driller prep to install temporary 5" PW rods to 75' Bgs borehole has caved in to 62.2' Bgs, Flush out hole install temp casing.
1350		Second crew finish pad completion on RW-137 & 139, and also pumped ~300 Gals of portland/grout into RW-125; 4 batches (5x94lb Bags into 75 Gals) needs topping off; crew onsite.
1421		Temp casing @ 75' Bgs, switch tooling over to Air Rotary.
1503		Start hammering from 75' to 90' Bgs.
1510		Blew Air line, stop to repair line, hole pinching water thought to be Bypass from temp casing.
1530		Continue drilling, then stop at 78.8' Bgs, bypass in RW-114 again problem drilling
1542	1541	Continue drilling to see if bypass stops at depth.
1608		Stop @ 90' Bgs, log cutting, wait for recharge, then see if cleans up.

FIELD REPRESENTATIVES SIGNATURE: J. M. Law DATE: 3/12/14

PROJECT NUMBER: _____ DATE: 3/14/14 REPORT NUMBER: _____

PROJECT & LOCATION: Amigo

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Paul

SUBCONTRACTOR: RE Drilling

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: Set Casing

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
800		- HQ's meet - Discus Revis
900		- Pull Air Hammer tool - RL-115
930		Install 6" steel casing to 75' RL-115
1200		Lunch
1230		Grant RL-115 - Egg Batcher - RE 94# Portland
		+ Bell - Grant down $\approx 15'$ will finish with frame on outside
1345		Clean-up Pumps Move to RL-129
1425		Pay to Install RL-129
1430		Assign Safe Work Permit
1500		Unload pipe for RL-129 - some pipe was missing o-rings and some had wrong threads - did not install.
-		Clearance up mud when roll off was damaged near main Bldg
		Spread 7 Bags stones at RL-117 -
		Payed roll off water int Tanker.
		- notify white about lactate delivery in early April

FIELD REPRESENTATIVES SIGNATURE: Mark Paul DATE: _____

PROJECT NUMBER: _____ DATE: 3-17-14

PROJECT & LOCATION: Avonlea - Bracknow -

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Hartford

SUBCONTRACTOR: AE Drilling

SUBCONTRACTOR PERSONNEL ON SITE: TJ Cresmer, John Gorman

BRIEF SUMMARY OF WORK PERFORMED: _____

TIME	DESCRIPTION OF ACTIVITIES
830	ON SITE - HPS met - Prep to drill out RL-115 casing Prep to drill out RL-115 to packers sample
	Calibrate VSI SSB - conductivity out of range - cleaned Sensor - Cal ok
930	Air hammer kicked off on landing after exiting casing RL-115
1030	Pull Air tools - call Rexel Philips for advice. AE sending a stabilizer tool to keep air hammer from kicking off -
1140	Prep to Add stabilizer and trip rods back into RL-115
1300	Trip Back in RL-115 w/ 10' Stabilizer & 5' Hammer
1325	Stabilizer not working - Hammer is tracking into pre-drilled hole on 1 blow in casing - Drill called shop - Dan is coming with roller bit -
1430	Dan Bergman on site - Trip in Roller Bit RL-115 to clear out hole already drilled to 90'
1430	Pull Roller Bit - switch back to air hammer - Roller Bit made it to 83'
1700	Drill air hammer to 90
1800	OFF SITE

FIELD REPRESENTATIVES SIGNATURE: _____ DATE: _____

PROJECT NUMBER: _____ DATE: 3-19-14 REPORT NUMBER: _____

PROJECT & LOCATION: Alusiga Sparta Bay

CLIENT: Celanesa AECOM FIELD REPRESENTATIVE: _____

SUBCONTRACTOR: AE Drilling

SUBCONTRACTOR PERSONNEL ON SITE: Dan Bergman, Casman, Gorman

BRIEF SUMMARY OF WORK PERFORMED: _____

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
8:00		ON S.E. NES met Call to Request Roll-off / double lined delivers to Plant side by Friday
8:30		Rec'd / Clean tubes for RW-113 casing
10:00		Setup Rig at RW-113
8:00	-	Pump off Roll-off water to Tanker -
10:30		Drill RW-113 to set surface casing -43.5 Hard -49 - In/out of Hm.
1:20		49 Hard TOP Rx - TO 52 - 30 min/in Will set casing in AM. -
		<div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> M. to Wilcox and female Resident - Wilcox Resident - came to gate and requested to know if we what we were doing - I provided them with the phone # & e-mail address to Travis Jacobson. </div>
		Contacted T. Jamison - re - SE visit in April 8 th - Training Room for videos & - 25 hard hats 15 gloves

FIELD REPRESENTATIVES SIGNATURE: *Mark [Signature]* DATE: _____



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 3/20/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: AE Drilling Services

BRIEF SUMMARY OF WORK PERFORMED: Bergman, Calomen, Gorman, Winburn, Monallo.

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
800	on site Pump pull-off water to tanker. 1085 met
830	Install surface casing - RW-113 6-in steel
1000	2nd AE crew. Gary Winburn & Monallo on site
1115	RW-113 steel casing set to 52' 55" Pay to grout
1100	RW-115 Trueme Bentonite hulk ply 94-120
-	-
-	Install RW-115 2-in well. to 88.8 - saw 78.5 - 88.5
1300	RW-113 Pull casing, grout shoe breaks
1600	Ream hole Reinstall casing -
1600	Grout Casing - 3 Batches - 7 48# Bq 1 batch + cell
	RW-113 Driller noted that while I was at RW-115
	Black Tube pulled in turned around & took photo
	picture of them at RW-113 before - speeds off
	Blacked female driver in 305
1650	Finish Grout RW-113 - Cleanup
	Other crew dropped trailer at DMS

FIELD REPRESENTATIVES SIGNATURE: Mark Hartford DATE: 3/20/14



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 3-22-14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: AE Drilling Services Tommy Burnett
Marcello Gonzalez

BRIEF SUMMARY OF WORK PERFORMED: Drill Borehole

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
820	Move Equipment From Bruchner Side
900	Assign Safe Work Permit
1000	Decom Rig
1045	Set up on RW-131
1100	Trip Rod / Drill RW-131 Target depth 150'
1230	Drill to 141 - Small Water Zone at 137' - Stop at 141
1300	Run develop Rh 12 - Driller thinks it from ground inside cyclone
1310	Pen Rod RW-131 wt 129 at 140.3 124.8 at 141.5
1330	Decom / Set up on RW-135
1430	Drill RW-135 to 162 - D/S 123-162 Target 144
1530	Trip Rods / Decom / set up at RW-133 - Target 148
1625	RW-131 WL @ 16.25 - 93.3
1630	Set up on RW-133 - Drill -
1635	RW-135 TD 162 Water 161.97
1645	Drill Rod RW-133 88-162 - Trace Water - 1/46PM - From at 102.5, 112, 128, 140. Water at from 112 Proc.
1855	Pen Rod
1915	RW-135 DTW 161.2 RW-133
1920	RW-131 DTW 69.3 19.28 154.7
1940	Load Bobcat to return to Bruchner 1935 153.3
2030	Return to Picking Steam cleaner.

FIELD REPRESENTATIVES SIGNATURE: Mark Hartford DATE: _____



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 3-24-14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: Crew #1 Dan Bergman, RJ Mesman, Sebastian Arrington, Bruckner, R. Phillip T, U R Morge

BRIEF SUMMARY OF WORK PERFORMED: _____

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
800	on S.G.
830	H&S meet
900	Drill RW-117 72.7 - 88 Dry Drilling - - at 3000 had accumulated in hole at start from Fracture end of edge
1030	Pull Rods
1100	Down
1130	Setup Rig on RW-121
1200	Lunch
1300	Setup and wait on Replacement Compressor
1450	Replacement Compressor on Site
1500	Drill Rock 69.5 - 83 - 76-77 Fracture
1610	Air Develop -
1650	Pull Rods
1700	Down
1730	Setup Rig - RW=119
	RW-117 -
	Time hole
	1030 87.9
	1330 86.2

FIELD REPRESENTATIVES SIGNATURE: Mark Hartford DATE: _____

PROJECT NUMBER: 60280417 DATE: 3-24-2014 REPORT NUMBER: 1 of 2

PROJECT & LOCATION: Auriga Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: _____

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0700		Leave AECOM to pick up equipment
	0800	arrive on site - Bruckner site to meet w/ Mack for instruction on scope of work (Health and Safety briefing)
0918		at Auriga site to get water levels on newly drilled wells
0918		RW-129 39.90 TOL
0923		RW-131 52.24 TOL
0932		RW-133 45.25 TOL
0937		RW-135 149.33 TOL
1000		Tim Jamison arrives to sign gatework permit AE arrives on site
1020		at RW-133 to pump out water into roll off
1100		decided to use poly tank instead of roll off over to Bruckner site to get poly tank. Targeted RW-133 Total well depth 162.2 TOL
1125		planted out 120 gals pump quit working
1200	1230	lunch
1235		AE to Bruckner site to get hole plug
1300		at RW-133 begin pouring hole plug sifted to get dust out in well
	1520	
1520		hole plug up to 120' BGS 9 1/2 bags hole plug lowered pump back in well to remove water to be sure the well still produces

FIELD REPRESENTATIVES SIGNATURE: Randy Morgan DATE: March 24, 2014



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 3-25-14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: AE Drilling Services Dan Bergmann, Chrisman - Jonathan Arrington

BRIEF SUMMARY OF WORK PERFORMED: _____

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
800	ON site
815	HE S MEET - Discuss geology holes on Breakdown B. Plan moving to Auriga
830	Drill RW-119 - 86-113 ft.
1130	END
1230	Check logs - same as at 88
	Drill to 118 - no additional logs. Will backfill 95-118 and screen 80-90
1315	Phil Rodz - Record
1430	Setup on RW-117
1500	Drill RW-113 55-70
1630	Phil Rodz
1700	MOVE to DECOM
1715	OFF SITE
	2 nd Crew Approx
	Install RW-131 131-141
	RW-129 138-150
	RW-133 107-117
	Randy Re-develop RW- 114 114

FIELD REPRESENTATIVES SIGNATURE: _____ DATE: _____

PROJECT NUMBER: 60280417 DATE: March 25, 2014 REPORT NUMBER: 107

PROJECT & LOCATION: Auriga Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: well installation

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0715		leave for Auriga Spartanburg
0800		arrive on site - called Tim Johnson
0825		sign safe work permit
		AE load materials to set well at RW-133
0832		Water level RW-133 43.90 BGS
		logged bottom of well 119.7 BGS
		set the well at 117.0 BGS
0840		begin begin setting RW-133
0851	0917	begin filling in with sand up to 104.0 BGS 6-bags
0918		Y-bag hole plug from 104.0 to 99.7 ft
	0930	complete RW-133
0934		at RW-131 to get water level 57.90 BGS
		AE crew moves to RW 131 to install well
1018		begin to set PVC casing in well set at 140.0' BGS
1028		begin to pour sand in from 141.7 to 127.2
1038		hole plug from 127.2 to 123.1
1110		at RW-129 water level 38.90 BGS TD 154.5 BGS
1114		begin setting RW-129 2" PVC to 150' BGS
1122		begin pour sand in from 154.5 to 132.5 BGS
1157		begin to pour hole plug from 132.5 to 127.5 BGS 1-bag
1215	1255	Lunch
1300		at Bruckner site RW-121 water level 22.70 BGS
1315		AE on site - they do not have 5' screen will return 3-26-14

FIELD REPRESENTATIVES SIGNATURE: Randy Morgan DATE: 3-25-14



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 3-26-14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

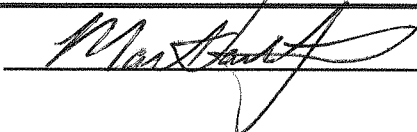
CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: AE Drilling Services

BRIEF SUMMARY OF WORK PERFORMED: Install & Grout wells

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
6:00	ONSITE
8:30	HES meet
9:00	- Prepare to Grout Abandon RW-117 Grout w Portland / Bentonite 3 Batches in down 7 Bag Portland each 1st 2 Then 2 Bag 3rd Batch
10:00	Grout RW- 117 115 Bentonite Tag 73
12:00	Lunch
13:00	Grout RW-121 from 67.5 2 Down Grout.
14:00	Grout RW-129 from 74 2 Down Grout
15:30	Grout RW-113 from 53 1.5 Down Grout
	Pump Pulloff water to Tanker
	Pump Down water to Tanker
16:00	Smooth Rotted areas -
17:00	Move Rig to Plant Randy Develop
17:30	Move Popper to Plant RW-139
18:30	Move Skid Steer to Plant RW-137
	Install
	RW-113 - 70
	RW-119 - 90
	RW-121 - 80

FIELD REPRESENTATIVES SIGNATURE:  DATE: _____

PROJECT NUMBER: 60280417 DATE: 3-26-14 REPORT NUMBER: 1 of 2

PROJECT & LOCATION: Auriga Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: installation of monitoring wells / development

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0745		leave for Augusta from Greenville
0750		arrive on site check WL & TD in RW-119
0755		WL 32.50 BGS TD 117.52 117.52 BGS
		checked WL & TD on RW-115 on 3-25-14
		WL 33.15 BGS TD 88.62 BGS
0810		AE crew on site
0817		check TD & WL at RW-121
		WL _____ TD 82.8 BGS
0820	0829	begin to set well - lower PVC to 80' BGS screen 75-80' BGS
0827		Sand from 82.8' to 73.0' Almost 2 bags sand
0838		1-bag hole plug 83.73.0 to 67.7 BGS
0905		at RW-119 to hole plug from 117.5 to 95'
	0955	hole plug up to 95' BGS
		move to RW-113 while hole plug sets up at RW-119
1003		at RW-113 to get WL 172.00 BGS TD RIM
		WL 18.28 BGS TD 70.00 BGS
1013		begin setting RW-113 to 70.00 BGS screen 70-60' BGS
1020		begin to sand up to 70.00 to 57.6' BGS 3-bags
1028		begin to hole plug from 57.6 to 52.6' 1-bag
1043		back to RW-119 to install well - set well at 90' BGS
1055		screen 80-90' BGS
1105	1122	begin to sand from 95' to 77.7 BGS
1124	1129	hole plug from 77.7' to 72.1 BGS 1-bag

FIELD REPRESENTATIVES SIGNATURE: Randy Morgan DATE: 3-26-14

PROJECT NUMBER: 60280417 DATE: 3-27-14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: AE Drilling Services D. Bergman, TJ Crew members

BRIEF SUMMARY OF WORK PERFORMED: Grout wells J Gorman

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
800	OP S.G. - Bruckner / DMT 2 crew
900	Water is off at DMT area -
	Go to main Plant to get water no pressure 1st location -
1000	2nd location
1200	Lunch
1230	Grout RW-129 Bentonite @ 129.5
	Pumped 4 Barrels grout 7 Bgs each - did not come up - will let setup and check. May be going in the good fracture @ 103' at 103' 20 Bgs 200 gal.
1435	Move to RW 130 131 Grout Bentonite @ 123' 2 1/2 Barrels
1530	move to RW-133 Bentonite 99.7
1600	Secured Grout RW-135 / Abandoned - TD 162
1715	Finish RW-133
1800	Finish RW-135 Abandoned.
	Randy M.
	Well Pade
	Development -
	RW-119 - Low yield
	RW-121 - Low yield
	RW-113 - Done
	RW-115

FIELD REPRESENTATIVES SIGNATURE: _____ DATE: _____

PROJECT NUMBER: 60280417 DATE: 3-27-2014 REPORT NUMBER: 1 of 2

PROJECT & LOCATION: Auriga Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: well development

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0630		Calibrate YSI 556 water quality meter before leaving
		DO% saturated air @ 19.60 8.95
		Conductivity 1.278 @ 18.00 1.278
		Ph 7.02 @ 17.55 7.02
		Ph 4.00 @ 17.86 4.00
		Ph 10.05 10.05
		ORP 237.5 237.5
0715		purchase gas for generator
0745	0815	arrive on site - waiting to meet Mark at Auriga
0823		arrive on Breckner site set up to develop wells
0853		at RW-113 begin to develop
	0953	complete developing RW-113 decan pump
1015		off site to empty development water at WWTTP
1103		back at Breckner site continue developing at RW-115
1128		begin to develop RW-115 w/Grundfos pump
	1248	complete developing RW-115 decan pump
1308		at RW-119 due to expected low yield - will bail to see if it draw down
	1352	Dry at 13.0 gals very low recharge will return on 3-28-14 to bail down again - check recovery rate .33
1409		off site to Auriga to empty development water at WWTTP
1433		empty development water at WWTTP
1450	1515	lunch

FIELD REPRESENTATIVES SIGNATURE: _____

Randy Morgan

DATE: 3-27-14

every 5 minutes

PROJECT NUMBER: 60280417 DATE: March 28, 2014 REPORT NUMBER: 1 of 2

PROJECT & LOCATION: Auriga Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: Well development

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0630		Calibrate YSI 556 water quality meter before leaving
		DO% saturated air @ 19.11 9.00
		Conductivity 1.278 @ 19.43 1.278
		Ph 7.02 @ 19.44 7.02
		Ph 4.00 @ 19.62 4.00
		Ph 10.05 10.03
		ORP 237.5 237.5
0730		Turbidity meter acceptable standards 100, 10.0, 0.02 NTUs on site at RW-119 to purge dry w/ 36" boiler
	0735	RW-119 dry at 6.0 gals will return later today
0810		back at RW-121 to pump dry
0818		begin to pump RW-121 dry at 8.5 gals allow to recover
0830		check total depths and water levels on newly installed wells
0848		at RW-112 after opening well found the pad has been run off over pond pushed over the well and will need to be replaced the well is OK.
1035		back at RW-121 pump dry again at 9.0 gals pulled pump and decoupled
		crew on site to spread straw in need areas show where these area area
1130		off Buckner site to Auriga to pump off development water at WRP
1148		back to Buckner site to lock gate

FIELD REPRESENTATIVES SIGNATURE: Randy Morgan DATE: March 28, 2014



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 3-31-14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services *R. Morgan - Development
J. Butler - Sample*

SUBCONTRACTOR PERSONNEL ON SITE: *D. Bergman, J. Crummett, J. Gorman, C. S. Sain*
AE Drilling Services

BRIEF SUMMARY OF WORK PERFORMED: Drill RW-127

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
800	on site
830	Auriga Site Lunch Permit
900	Drill RW-127 - to 92.5
1145	Pull Rods -
1215	Lunch
1300	Install RW-127 to 92.7 10' screen ^{0.3 plus} + backfill
	Pump off Roll-off at Branchmen -
	AE 2 nd (MW) - Grant - 135, 123, 127 RW - 125, 129
	Put Well Tag in MW-124 Give MW-126 Well tag back to Don to correct
	Just in Sample MW-136 138 RW-137, 139
	Develop - RW-131, 133 129,
	Develop 129, 133 complet 131 Did not recover will check w/ the morning -
	Randy Sample IOW MW 124 2 Roll-offs, seal in one, seal seal in 15 down

FIELD REPRESENTATIVES SIGNATURE: _____ DATE: _____



1/1

DAILY REPORT

PROJECT NUMBER: 60280117 DATE: 3/31/14 REPORT NUMBER: _____

PROJECT & LOCATION: Avigo Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Justin Butler

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: _____

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0700		Mob to site from office
0815		Arrive @ site, wait for access badge.
0815		Leave welcome center with badge
0830		Meet with Mark Hartford to discuss Procedures
0900		Mob to meet with Randy Morgan to receive proper bottles/ear
0945		Arrive @ MW-138 + RW-139 Pits
1000		Begin calibration of YSE + turbidity meter
		Temp 19.98 Pressure 747.8 mmHg
		DO 9.26 corrected 9.76
		SpC Cond 0.703 1.147
		pH 7.14 7.04
		pH 4.21 4.00
		pH 10 9.96 10.07
		ORP 229.7 244.0 * Turbidity - yes
1145		Sample time MW-138
1230		Mob to pick up ice + lunch
1315		Arrive back @ RW-139
1405		Sample time RW-139
1445		Move to MW-136
1545		Sample time MW-136
1620		Move to RW-137
1710		Final - Sample time @ RW-137. Repack samples and make sample kits
1800		End of day Trip Blank MW-301 @ 1800 3/31/14

FIELD REPRESENTATIVES SIGNATURE: _____ DATE: _____

PROJECT NUMBER: 60280417 DATE: 3-31-14 REPORT NUMBER: 1072

PROJECT & LOCATION: Auriga Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: well development / flow sampling

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0630		left AECOM to go to Progress park to pick up certified unpreserved VOC vials for VOC sampling received from Pure labs was preserved.
0643		leave for Auriga Spartanburg
0718		arrive on site
		Calibrate YSI 556 water quality meter
		DO% saturated air @ 13.69 10.15
		Conductivity 1.278 @ 18.07 1.278
		Ph 7.02 @ 17.56 7.02
		Ph 4.00 @ 17.35 4.00
		Ph 10.05 10.03
		ORP 237.5 237.5
0730		at RW-131 set up to begin developing
	0812	dry at 19.0 gals allow to recover
	0850	begin to develop again dry at 10 gal will allow to recover all day then return - decon pump
0915		at RW-133 set up to develop - started on 3-28-14
	1005	dry at 15.0 gals allow to recover to continue developing decon pump
1030		at RW-129 the well is not flush to the ground yet - will need to be cut down our equipment is only 150' long and does not reach bottom of the well right now - the crew will cut it down flush with ground

FIELD REPRESENTATIVES SIGNATURE: Randy Morgan DATE: 3-31-14

Auriga Spartanburg SC

AECOM

DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 3-31-14 REPORT NUMBER: 2 of 2
Well Development Page #: _____

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
1053		at RW-129 set up to begin development
1105		begin developing RW-129
	1240	Complete developing RW-129 clean pump
1251	1303	empty poly tank of development water at WWTP
1310	1340	lunch
1345		at Hot Spot to meet Pace Courier to pick up additional bottleware and trip blanks unpreserved.
1400		take bottleware to Justin - He is sampling wells while I am developing wells.
1408		leave to go to Bruckner site to sample drums of soil IDW and 2-roll off and pump out water into tanker.
1430		go inside Bruckner bldg to open ⁽⁵⁾ drums of soil IDW then sample and then close back up. Resecure bldg
	1445	sampled BRUCKNER SOIL IDW
1451		resecure bldg from pump off roll offs at 2-Roll Off 1-will be 4 and the other 5 bottles will be labeled on roll offs
	1520	sampled roll off 5
	1535	sampled roll off 4
1543		leave Bruckner site to go to Auriga to sample roll off 6 sampled roll off 6
1620		at RW-133 check water level 98.52 BGS not recovered enough to start continue developing will start back at RW-131 after AE crew tops off grout
	1704	at RW-131 check water level 135.30 not recovered enough to develop will return on 4-1-14 to re-evaluate
1715		check w/ Justin see if he needs anything take his purge water to WWTP to empty
1743		oversee drill crew clean up and put lock on RW-129
	1815	off site to Greenville AECOM

1850 end of day

Randy Mayo 3-31-14



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 4-1-14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site, Spartanburg, SC

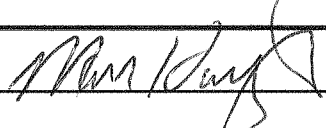
CLIENT: Celanese AECOM FIELD REPRESENTATIVE: Mark Hartford

SUBCONTRACTOR: AE Drilling Services

SUBCONTRACTOR PERSONNEL ON SITE: AE Drilling Services Dan Bergman, JS Crisman

BRIEF SUMMARY OF WORK PERFORMED: _____

START TIME	DESCRIPTION OF ACTIVITIES: REMARKS
8:30	on site
	Safe work permit.
	- Dec. to grab sample from RW-131 residual and then abandon hole
	TO DO -
	Clean up
	Pods - RW-123, 127, 129, 133
	Replace Pod 112
	Grant / Abandon RW-131
	Inspect RW-127 area with Tom - needs to be Ruled & stamped
	Develop All Remaining
	Sample LW Program
	Abandon RW-131
	Pod All Remaining

FIELD REPRESENTATIVES SIGNATURE:  DATE: _____



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 4/1/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Justin Butler
~~Randy Morgan~~

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: _____

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0700		Mod to site
0745		Arrive @ site, meet with R. Morgan to receive materials
0815		Arrive @ Bruckner wells
0825		Calibrate YSI + Turbidity meter
		Temp = 15.50°C Press 745.4 mmHg
		Do 9.23 corrected 9.76
		Spec Cond 1.075 1.147
		pH7 7.01 7.04
		pH4 3.96 4.00
		pH10 9.89 10.06
		ORP 242.3 244.0 Turbidity - yes
0850		Arrive @ RW-119. R Morgan helps with purge. purged dry/come back later
1005		Arrive @ MW-112
1055		Sample time for MW-112
1135		Arrive @ RW-113
1215		Sample time for RW-113
1300		Sample relinquish time to courier
1325		Sample time for MW-302, trip blank for VOC + 1,4 Dioxene
1345		Arrive @ RW-116
1435		Sample time for RW-116
1600		Arrive @ MW-118
1730		Sample time MW-118
1825		Sample time RW-119

FIELD REPRESENTATIVES SIGNATURE: _____ DATE: _____



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: April 1, 2014 REPORT NUMBER: 1072

PROJECT & LOCATION: Auriga Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: well development / ground water sampling

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0630		leave AECOM for Auriga Spartanburg
0706		arrive on site - check water level in RW-131
	0710	water level is 133.90 sent information to Mark He sent it to Bryan Dahlgren in Atlanta
0718		calibrate yst 556 5/11 05C1520 AU DO% saturated air @ 14.11° 10.07 Conductivity 1.278 @ 17.69 1.278 Ph 7.02 @ 17.60 7.02 Ph 4.00 4.00 Ph 10.05 10.05 ORP 237.5 237.5
		Turbidity meter accepts all standards 1000, 10.0, 0.02 NTU's
0758		at RW-133 begin developing w/ ground res pump
	0808	dry after 10 gals this is third and last time to pump it dry - pull pump and decon
0830		met w/ Mark Hartford - will need to go over and help Justin with RW-119 - bailed it dry then Justin will sample water today
0948		purchase ice for samples return to Justin to give him ice
	1020	at RW-131 now Residual Pump RW-131 well to pull a sample with a teflon bailer (per) Everettte Glover / Bryan Dahlgren then the well will be abandon due to low yield when sampling noticed an odor - called Mark & Bryan to inform them of it - sulfur odor - will still proceed with abandonment

FIELD REPRESENTATIVES SIGNATURE: Randy Morgan DATE: 4-1-2014

Auriga Spartanburg SC

AECOM

DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 4-1-14 REPORT NUMBER: 207

Page #: _____

groundwater sampling/well development

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
		AE Drill Crew just finish well pads - will need to wait till they dry before continuing development.
1103		at MW-130 to sample - set up Grundfos pump in screen zone to micro-low flow sample
1120		begin purging MW-130
1150		complete purging MW-130 - collect Fe sample 0.04 mg/L
1200		begin sampling MW-130 also collect MS/MSD all analysis
1223		complete sampling - pull pump - decon
		Face Counter will be on site ~ 1300 go to help Justin pack samples
	1317	relinquish samples to Face Counter
1325	1355	lunch
1400		back on site - at RW-123 set up to start developing well high yield well - pumping rate 2.0 gpm
	1519	complete developing RW-123 150 gals out pull pump - decon - empty poly tank at WWTP
1600		at RW-127 to develop - set up and begin developing well high yield well 2.0 gpm
	1737	complete developing RW-127 - pull pump - decon - empty poly tank at WWTP
1803		go down to well MW-130 + RW-137 to see if debris left behind was cleaned up - yes it was gone
1621		over to Bruchner site to get bottleware from Justin for groundwater sampling on 4-2-14 also empty Justin purge water
	1915	off site to Greenville AECOM
	1952	at AECOM office, EOD

Randy Mayo 4-1-2014



DAILY REPORT

PROJECT NUMBER: 60280417 DATE: 4/2/14 REPORT NUMBER: _____

PROJECT & LOCATION: Auriga site Spartanburg SC

CLIENT: A AECOM FIELD REPRESENTATIVE: Justin Butler

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: _____

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0645		Mob to site
0720		Stop to pick up ice
0730		Arrive @ Bruckner wells
0745		Calibrate YSI + turbidity
		Temp 12.68 Press 744.5
		DO 10.50 ^{corrected} 9.76
		Spec Cond 1142 1147
		Ph7 7.01 7.04
		Ph4 3.87 4.00
		Ph10 10.00 10.08
		ORP 244.4 244.0 Turbidity - Yes
0845		Arrive @ MW-114
0925		sample time for MW-114
0955		sample time for MW-402, duplicate of MW-114
1000		Arrive @ MW-115
1200		Sample time for MW-115
1300		Mob to MW Sample time MW-303 Trip blank VOC + 1,4 Dioxane
1400		Arrive @ MW-120
1500		Sample time MW-120 - MS/MSD
1615		Arrive @ MW-121
1710		sample time MW-121
1800		Empty purge water
1845		End of day / Arrive @ office

FIELD REPRESENTATIVES SIGNATURE: _____ DATE: _____

PROJECT NUMBER: 60280417 DATE: April 2, 2014 REPORT NUMBER: 1 of 2

PROJECT & LOCATION: Auriga Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: groundwater sampling

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0630		leave AECOM Greenville for Auriga Spartanburg SC
	0706	arrive at Inyles Spartanburg to purchase ice for samples
0711		arrive on site
		calibrate YSI 536 s/n 05C1520AU
		DO% saturated air @ 15.74 9.71
		Conductivity 1.278 @ 17.83 1.278
		Ph 7.02 @ 17.69 7.02
		Ph 4.00 @ 17.55 4.00
		Ph 10.05 10.02
		ORP 2375 2375
0735		at RW-133 set up to pump well dry due to low yield
0803		begin to purge RW-133
	0853	RW-133 dry allow to recover and sample w/ bailer
		pull pump - decon
0930		at MW-132 set up to begin purging w/ groundis pump
	1015	sampled MW-132 also collected 2 duplicate and it will be a blind sample called MW-401 time 0830
		pull pump and decon
1050		at MW-134 set up and begin to purge w/ groundis pump
	1140	sampled MW-134 - pull pump and decon
	1200	go to Justin to get samples and pack coolers to meet face courier
		at the Hot Spot gas station 1230-1245
	1245	relinquish samples to face courier

FIELD REPRESENTATIVES SIGNATURE: Randy Morgan DATE: April 2, 2014

PROJECT NUMBER: 60280417 DATE: April 3, 2014 REPORT NUMBER: 1 of 2

PROJECT & LOCATION: Auriga Site Spartanburg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: groundwater sampling low flow

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0630		leave AECOM Greenville SC for Auriga Spartanburg
0711		at Ingles Spartanburg to purchase ice for samples
0715		" " purchase gas for generator
0725		on site calibrate YSI 556 S/N 05C1520AU
		DO% saturated air @ 19.8C 9.03
		Conductivity 1.278 @ 18.96 1.278
		Ph 7.02 @ 18.75 7.02
		Ph 4.00 @ 18.26 4.00
		Ph 10.05 10.03
		ORP 237.5
0756		at RW-123 begin to low flow ^{purging} sampling w/Grundfos pump
	0843	sampled RW-123 also Blind duplicate RW-403 @ 0800
		pulled pump - decon
0910		at MW-122 set up to low flow purge/sample w/Grundfos pump
	1007	sampled MW-122 - pulled pump - decon pump
1030		at MW-124 set up w/Grundfos pump to low flow purge/sample
	1043	begin purging MW-124
	1125	sampled MW-124 - pulled pump - decon pump
1153		empty poly tank at WWTP
1210		off site to purchase stakes, paint, flagging to mark Injection Points on the Auriga site & Buckner site
1330		begin marking locations at the Auriga site w/ Justin Butler
1435		at Hot Spot gas station to rekeyish samples to face counter

FIELD REPRESENTATIVES SIGNATURE: Randy Morgan DATE: April 3, 2014

Well/Piezo ID:
RW-115-90

Ground Water Sample Collection Record

Client:	Celanese	Date:	3/18/14
Project No:	60280417	Time: Start	9:40 am/pm
Site Location:	Spartanburg, SC	Finish	1:05 am/pm
Weather Conds:	cloudy 30° Collector(s) <u>Mr. Law M. Hartford</u>		

WATER LEVEL DATA: (measured from Top of Casing) *stod. open borehole* Well Piezometer

a. Total Well Length 91.5 c. Casing Material PVC e. Length of Water Column 53.5 (a-b)

b. Water Table Depth 38 d. Casing Diameter 6" f. Calculated Well Volume (see back) 78

WELL PURGING DATA

a. Purge Method Ground for Pump *Blew out 1 vol with air sig prior to install pump*

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ N/A well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number
<u>YSI</u>	<u>556</u>	<u>05D1437 AR</u>
<u>HF Scientific</u>	<u>2000</u>	<u>2008/222K</u>

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (µmhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
9:45	5	13.55	9.05	0.155	500	7.77	99.5		40.6
12:35	30	16.22	8.15	0.140	46	7.65	135.5		40.5
12:45	30	16.47	8.15	0.146	39	5.97	95.7		42
12:55	90	16.40	8.23	0.141	20.51	7.97	99.2		44.1
1:00	30	16.41	8.16	0.142	10	7.81	98.2		44.3

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>RW-115-90</u>	<u>glass</u>	<u>3</u>	<u>HCL</u>	<u>VOCs (8260) Chloroform</u>	<u>1:05</u>

Comments Initial Packer test interval (Packer not needed)

Signature _____ Date 3/18/14 Start back - 12:25

Time - Gal WL

9:51 15 - Pump Fault quit *work on pump*

12:32 25 39

12:38 40 42

Stickup 2' Top Packer
Bottom Packer

89 - Pump Biter
92

512 Hk 90-105

Well/Piezo ID: RW-115-105

Dry Zone

Ground Water Sample Collection Record

Packer 200 PST

Client: Celanese Date: 3/18/14
 Project No: 60280417 Time: Start 1525 am/pm
 Site Location: Spartanburg, SC Finish _____ am/pm
 Weather Conds: C Cloudy Collector(s) Hartford

Stickup 2'
Tubing 2'

WATER LEVEL DATA: (measured from Top of Casing)
 a. Total Well Length 107 c. Casing Material 2-in Pipe Well Piezometer
 b. Water Table Depth 35.6 d. Casing Diameter _____ e. Length of Water Column _____ (a-b) 8.7 ft
 f. Calculated Well Volume (see back) _____

5-in Hk 15' = 15.3 gal

WELL PURGING DATA

a. Purge Method Ground for Pump 1 Vol - 24 Gal.
 b. Acceptance Criteria defined (from workplan)
 - Minimum Required Purge Volume (@ NA well volumes) _____
 - Maximum Allowable Turbidity NA NTUs
 - Stabilization of parameters _____
 c. Field Testing Equipment Used: Make YST Model 556 Serial Number _____

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond μ mhos	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1530	5	14.65	6.92	0.124	30	7.34	99.4		68.9
1533	8	16.01	6.85	0.130	25	6.97	80.4		

Dry

e. Acceptance criteria pass/fail Yes No N/A
 Has required volume been removed
 Has required turbidity been reached
 Have parameters stabilized
 If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>NO Sample</u>	glass	3		VOCs (8260) <u>Chloroform</u>	

Comments Dry

Signature _____ Date 3/18/14

Recovers 0.8 ft/min

$\frac{5}{0.8} \times \frac{4}{43.9} = 274 \text{ min}$ 10.2-l recovery 85P
16 gal 9.1 min

Sticky 3' Top Packer 105 BTOL
 Bottom Packer 108 BTOL

Well/Piezo ID: RW-115-120

Ground Water Sample Collection Record

Client: Celanese Date: 3/18/14
 Project No: 60280417 Time: Start 1734 am/pm
 Site Location: Spartanburg, SC Finish _____ am/pm
 Weather Conds: Cloudy Collector(s) Hartford

NO Sample

WATER LEVEL DATA: (measured from Top of Casing) Well Piezometer
 a. Total Well Length 123 c. Casing Material _____ e. Length of Water Column _____ (a-b)
 b. Water Table Depth 46.9 d. Casing Diameter _____ f. Calculated Well Volume (see back) _____

WELL PURGING DATA

- a. Purge Method _____
 b. Acceptance Criteria defined (from workplan)
 - Minimum Required Purge Volume (@ _____ well volumes) _____
 - Maximum Allowable Turbidity _____ NTUs
 - Stabilization of parameters _____
 c. Field Testing Equipment Used: Make _____ Model _____ Serial Number _____
 d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

*Vol 5" hole x 15' = 15.3 Gal
 Vol 2" Pipe 105' - 46.9 - 58.1 x 0.163 = 9.4*

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1737	5	14.27	7.16	0.128	243	7.61	40.4		88
1745	9	15.87	6.90	0.128	112	8.52	74.9		87

- e. Acceptance criteria pass/fail
 Has required volume been removed Yes No N/A
 Has required turbidity been reached
 Have parameters stabilized
 If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
	glass	3		VOCs (8260)	

Comments Def Aftk remaining vol in 2" pipe -

Signature _____ Date 3/18/14

*Recovery - Time - DTW
 1745 96.4
 1750 96.32
 1752 96.29 / Day*

3 mslp

88.5-105 Interval

Well/Piezo ID: RW-129-105

Ground Water Sample Collection Record

Client: Celanese
 Project No: 60280417
 Site Location: Spartanburg, SC
 Weather Conds: Cloudy/Amz Collector(s) Hans Ford
 Date: 2/10/14
 Time: Start 11:25 am/pm
 Finish 1:00 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well Piezometer open hole

a. Total Well Length 105 c. Casing Material PVC e. Length of Water Column _____ (a-b)
 b. Water Table Depth 40.5 d. Casing Diameter 6 f. Calculated Well Volume (see back) 94

WELL PURGING DATA

a. Purge Method Ground Surr Pump - minimal drawdown open 88.5-105

b. Acceptance Criteria defined (from workplan) N/A
 - Minimum Required Purge Volume (@ _____ well volumes)
 - Maximum Allowable Turbidity _____ NTUs
 - Stabilization of parameters _____

c. Field Testing Equipment Used: Make YSI Model 556 Serial Number _____

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond <u>Microhm</u>	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
<u>11:30</u>	<u>10</u>	<u>19.62</u>	<u>6.78</u>	<u>0.162</u>	<u>26.55</u>	<u>3.19</u>	<u>121.5</u>		<u>41</u>
<u>11:40</u>	<u>30</u>	<u>18.56</u>	<u>6.56</u>	<u>0.166</u>	<u>10.6</u>	<u>2.84</u>	<u>139.1</u>		<u>41</u>
<u>11:50</u>	<u>50</u>	<u>18.45</u>	<u>6.34</u>	<u>0.164</u>	<u>6.38</u>	<u>3.00</u>	<u>141.2</u>		<u>41</u>
<u>12:00</u>	<u>70</u>	<u>18.48</u>	<u>6.31</u>	<u>0.164</u>	<u>6.19</u>	<u>2.99</u>	<u>142.1</u>		<u>41</u>

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>RW-129-105</u>	<u>glass</u>	<u>3</u>	<u>HCL</u>	<u>VOCs (8260) Chloroform</u>	<u>1505</u>

Comments 1st Interval Below surface casing - NO packer.

Signature Matt Duff Date 2/10/14

Interval base of casing 88.5 to 105

Pump set to fracture depth 103 - minimal drawdown to verify formation water

3 mg/l

105-120 Interval

Well/Piezo ID: RW-129-120

Ground Water Sample Collection Record

Client: Celanese Date: 2/11/14
 Project No: 60280417 Time: Start 9:30 am/pm
 Site Location: Spartanburg, SC Finish 10:00 am/pm
 Weather Conds: cloudy Collector(s) Hartford

WATER LEVEL DATA: (measured from Top of Casing)

Well Piezometer Open hole

a. Total Well Length 120 c. Casing Material 2 in Pipe e. Length of Water Column _____ (a-b)
 b. Water Table Depth 44.45 d. Casing Diameter 6 f. Calculated Well Volume (see back) _____

WELL PURGING DATA

a. Purge Method Ground for Pump top of packer at 105 open 105-120 Stickers 3

b. Acceptance Criteria defined (from workplan)
 - Minimum Required Purge Volume (@ N/A well volumes) Volume 15" open hole = 1.23 x 15 = 18.5 Gal
 - Maximum Allowable Turbidity _____ NTUs
 - Stabilization of parameters _____
5 1/2" hole

c. Field Testing Equipment Used: Make YSI Model 556 Serial Number _____

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # Below TOC

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
9:30	10	15.77	6.48	0.229	6.5155	3.20	98.5		45.1
9:40	10	17.85	6.54	0.223	1.25	3.21	102.6		45.2
9:50	20	18.10	6.53	0.219	3.42	3.98	102.1		45.2
9:55	30	17.87	6.54	0.216	3.11	3.81	102.4		45.3
10:00	40	17.52	6.49	0.214	3.07	2.74	104.6		45.2

Packer 200 PSC

e. Acceptance criteria pass/fail
 Has required volume been removed Yes No N/A
 Has required turbidity been reached
 Have parameters stabilized
 If no or N/A - Explain below.

Vol in Rch (105-44.45) = 0.163 = 9.8 Gal

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
RW-129-120	glass	3	HCL	VOCs (8260) Chloroform	10:02

Comments _____

Signature Man Hardy

Date 2/11/14

Packer at 105 Sample 105-120

Tip Block Labeled
 MW-001 2-11-14 1300

0.4

120-135 Interval

Well/Piezo ID: KW-129 -135

NO
SAMPLE
DRY

Ground Water Sample Collection Record

Client: Celanese Date: 2/14/14
 Project No: 60280417 Time: Start 11:20 am/pm
 Site Location: Spartanburg, SC Finish _____ am/pm
 Weather Conds: Clear Collector(s) Hand find

WATER LEVEL DATA: (measured from Top of Casing)

Well Piezometer

- a. Total Well Length _____ c. Casing Material 2-in Pipe e. Length of Water Column _____ (a-b)
 b. Water Table Depth 42.5 d. Casing Diameter _____ f. Calculated Well Volume (see back) _____

WELL PURGING DATA

- a. Purge Method Ground for Pump on Top of 117' & Packer at 120' - open 120-135
 b. Acceptance Criteria defined (from workplan)
 - Minimum Required Purge Volume (@ _____ well volumes) 15' * 1.23 gal/ft = 18.5 gal. 1 vol.
 - Maximum Allowable Turbidity 1.0 NTUs
 - Stabilization of parameters _____
 c. Field Testing Equipment Used: Make YSS Model 556 Serial Number _____
 d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Below Top of Casing

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond mS/cm	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1122	0.5	18.10	6.40	0.180	49.6	2.81	124.7		57.1
1135	5	19.00	5.97	0.191	54.7	2.61	105.4		104.0
1145	10	19.75	6.32	0.201	77.5	2.47	86.5		109

0.4 11:46

- e. Acceptance criteria pass/fail
 Has required volume been removed Yes No N/A
 Has required turbidity been reached
 Have parameters stabilized
 If no or N/A - Explain below.

Did AVE Vol in Rids.
Vol in Rids
(120-42.5) * 1.23 gal/ft = 12.5 gal

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
	glass	3		VOCs (8260) <u>Chloroform</u>	

Comments _____

Signature [Signature]

Date 2/14/14

NO Sample - water did not recover any in 15 min -

1 mg/L

135-150 Intalud

Well/Piezo ID: RW-129-150

Ground Water Sample Collection Record

Client: Celanese Date: 2/14/14
 Project No: 60280417 Time: Start 1512 am/pm
 Site Location: Spartanburg, SC Finish 1637 am/pm
 Weather Conds: Clear Collector(s): Hartford

WATER LEVEL DATA: (measured from Top of Casing) Well Piezometer
 a. Total Well Length 150 c. Casing Material 2" w Pipe e. Length of Water Column _____ (a-b)
 b. Water Table Depth 39.45 d. Casing Diameter _____ f. Calculated Well Volume (see back) _____

WELL PURGING DATA Ground for Pump on Top of Packer at 132-135 BGS.
 a. Purge Method Rock Intalud
 b. Acceptance Criteria defined (from workplan)
 - Minimum Required Purge Volume (@ 15' well volumes) 1.23 gal/ft
 - Maximum Allowable Turbidity NTUs
 - Stabilization of parameters 18.5 gal = 1 vol intalud
 c. Field Testing Equipment Used: Make VSI Model 556 Serial Number _____
 d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # Better TOC at Ground

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1519		17.57	6.49	0.160	25.0	3.40	128.7		59.5
1520	5	18.17	5.53	0.161	44.4	3.36	140.0		70.9
1528	10	18.16	5.14	0.165	42.9	3.33	155.5		88.5
1538	15	18.77	5.19	0.163	61.4	4.17	151.2		97.5
1548	20	19.09	5.43	0.173	106.5	5.79	146.1		118.4
1558	25	19.32	5.74	0.178	180.2	6.05	141.7		128.5
1600									116

Packer 200 PSI

e. Acceptance criteria pass/fail
 Has required volume been removed Yes No N/A
 Has required turbidity been reached
 Have parameters stabilized
 If no or N/A - Explain below.

Vol Ridd (130-39.45) = 0.163 14.7 GPP

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
RW-129-150	glass	3		VOCs (8260) Chloroform	1637

Comments

Signature _____

Date 2/14/14

Recover 1600-1610

Time	Vol	Temp	pH	SP CON	Turb.	DU	ORP	DTW
1622	30	19.77	6.38	0.165	135.1	4.33	135.5	114.9
1635	30	19.77	6.41	0.165	60.71	3.45	139.1	115.2

419

Interval 150 -165

Well/Piezo ID: RW-129-165

Dry Interval

Ground Water Sample Collection Record

Client: <u>Celanese</u>	Date: <u>2/20/14</u>
Project No: <u>60280417</u>	Time: Start <u>9:15</u> am/pm
Site Location: <u>Spartanburg, SC</u>	Finish _____ am/pm
Weather Conds: <u>CLOUDY</u>	Collector(s) <u>Hartford</u>

WATER LEVEL DATA: (measured from Top of Casing)

Well Piezometer

a. Total Well Length 165 c. Casing Material _____ e. Length of Water Column _____ (a-b)

b. Water Table Depth 35.2 d. Casing Diameter _____ f. Calculated Well Volume (see back) _____

WELL PURGING DATA

a. Purge Method Ground for Pump. Packin (147-150) 8GS. Pipe vol (147-35.2) .163 = 18 gal.

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number
<u>VSI</u>		

Interval vol / 15 = 1.23 gal/ft = 18.5

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond μmhos	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
9:15	0	17.86	6.09	0.284	57	4.60	155.2		
9:28	10	18.95	6.61	0.246	81	3.19	151.9		100.5
9:40	10	18.61	6.77	0.244	82	3.16	154.4		122.5

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
	glass	3		VOCs (8260)	

Comments 9:42 Stop Pump to check for recharge @ 0.16 GPM. Recovery 1.5 min =

Signature Marcus [Signature] Date 2/20/14

60 gal
5 - 920 -
10 - 928 - 100.5
15 - 940 - 122.5

Recovery 1.5 min / ft = 0.163 gal/ft
@ 0.1 GPM - could be leakage around packer. Interval determined to be Dry -

Dry

Interp 165-180

Well/Piezo ID: RW-129-180

Ground Water Sample Collection Record

Client: Celanese Date: 2/20/14
 Project No: 60280417 Time: Start 1210 am/pm
 Site Location: Spartanburg, SC Finish _____ am/pm
 Weather Conds: Cloudy Collector(s) Hartford

WATER LEVEL DATA: (measured from Top of Casing) Well Piezometer
 a. Total Well Length 180 c. Casing Material _____ e. Length of Water Column _____ (a-b)
 b. Water Table Depth 40.5 d. Casing Diameter _____ f. Calculated Well Volume (see back) _____

280 PSI

WELL PURGING DATA
 a. Purge Method 6' Hard for Pump (Packer 162-165) Pipe v/d
 b. Acceptance Criteria defined (from workplan)
 - Minimum Required Purge Volume (@ _____ well volumes) _____
 - Maximum Allowable Turbidity _____ NTUs
 - Stabilization of parameters _____
 c. Field Testing Equipment Used: Make YSE Model 556 Serial Number _____
 d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

(162-40.5) 0.163
 20 Gal
 15' Rich H₂O
 18 gal.
 Total 38 Gal

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (µmhos/cm)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1210	0	18.57	6.02	0.192	13	3.25	144.5		40.5
1218	10	19.11	5.65	0.176	47	3.03	144.9		10.5
1224	15	20.09	5.68	0.189	61		146.2		133.5

e. Acceptance criteria pass/fail Yes No N/A
 Has required volume been removed
 Has required turbidity been reached
 Have parameters stabilized
 If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
	glass	3		VOCs (8260)	

Comments _____

Signature _____ Date ____/____/____

Recovery 1234 - ^{LL} 156 Firm Tubing Backflow Gcl Time ^{LL}
 1335 144.2 5 - 1214 - 75
 11.8 ft in 1 hr. 10 - 1218 105
 15 1224 133.5
 20 1234 Dry
 Need 110 ft of recovery to 2
 = Volume in Rock interval
 9-14 hr. Called Byron to discuss - decide to call interval DRY -

Well/Piezo ID: MW-112

Ground Water Sample Collection Record

Client:	<u>Celanese</u>	Date:	<u>4/11/14</u>
Project No:	<u>60280417</u>	Time: Start	<u>1005</u> @ <u>pm</u>
Site Location:	<u>Spartanburg, SC</u>	Finish	<u>1105</u> @ <u>pm</u>
Weather Conds:	<u>Partly Cloudy/50's</u> Collector(s) <u>Justin Butler</u>		

WATER LEVEL DATA: (measured from Top of Casing)

Well Piezometer

- a. Total Well Length 38.83 c. Casing Material PVC e. Length of Water Column _____
- b. Water Table Depth 12.13 d. Casing Diameter 2" f. Calculated Well Volume (see back) _____

WELL PURGING DATA

- a. Purge Method Peristaltic/Low Flow
- b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ _____ well volumes) _____
 - Maximum Allowable Turbidity _____ NTUs
 - Stabilization of parameters _____
- c. Field Testing Equipment Used:
- | Make | Model | Serial Number |
|------|-------|---------------|
| | | |
| | | |
- d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1020	Initial	14.36	3.61	0.128	0.68	6.50	131.4	NA	12.50
1025	1000	15.01	5.18	0.124	0.10	5.36	141.3	NA	12.52
1030	2000	15.73	5.12	0.119	0.07	5.26	146.3	NA	12.52
1035	3000	16.02	5.15	0.120	0.05	5.22	148.1	NA	12.53
1040	4000	15.80	5.16	0.122	0.09	5.52	148.8	NA	12.53
1045	5000	15.87	5.13	0.120	0.08	5.57	149.3	NA	12.53
1050	6000	15.74	5.12	0.118	0.17	5.50	152.9	NA	12.53

- e. Acceptance criteria pass/fail
- | | | | |
|-------------------------------------|------------------------------|-----------------------------|------------------------------|
| Has required volume been removed | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| Has required turbidity been reached | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| Have parameters stabilized | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
- If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-112</u>	<u>glass</u>	<u>3</u>		<u>VOCs (8260)</u>	<u>1055</u>
	<u>glass</u>	<u>3</u>	<u>Phosphoric Acid</u>	<u>TOC</u>	<u>1055</u>
	<u>plastic</u>	<u>1</u>		<u>Alkalinity</u>	<u>1055</u>
	<u>plastic</u>	<u>1</u>		<u>Fluoride</u>	<u>1055</u>
	<u>plastic</u>	<u>1</u>		<u>Dissolved metals</u>	<u>1055</u>
	<u>glass</u>	<u>3</u>	<u>HCL</u>	<u>1,1-dioxane</u>	<u>1055</u>
	<u>glass</u>	<u>2</u>		<u>Dow therm</u>	<u>1055</u>

Comments: Ferrrous Iron = 0.00

Signature: Justin Butler

Date: 4/11/14

Well/Piezo ID:
RW-113

Ground Water Sample Collection Record

Client:	Celanese	Date:	4/1/14
Project No:	60280417	Time: Start	1:35 am/pm
Site Location:	Spartanburg, SC	Finish	1:05 am/pm
Weather Conds:	Clear/60's	Collector(s)	Justin Butler

WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length	<u>88.95</u>	c. Casing Material	<u>PVC</u>	e. Length of Water Column	_____
b. Water Table Depth	<u>18.66</u>	d. Casing Diameter	<u>2"</u>	f. Calculated Well Volume (see back)	_____

Well Piezometer

WELL PURGING DATA

a. Purge Method Peristaltic / Low Flow

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1142	Inchol	20.17	7.50	0.252	0.38	6.82	107.5	NA	19.02
1147	1000	20.10	7.63	0.251	0.01	2.26	112.8	NA	19.09
1152	2000	20.28	7.65	0.252	0.28	1.77	112.4	NA	19.13
1157	3000	20.38	7.66	0.252	0.24	0.94	113.8	NA	19.16
1202	4000	20.46	7.66	0.252	0.06	1.80	112.5	NA	19.16
1207	5000	20.55	7.67	0.253	0.01	1.72	110.7	NA	19.16
1212	6000	20.64	7.68	0.252	0.00	1.91	109.5	NA	19.17

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Have parameters stabilized	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
↓	glass	3		VOCs (8260)	1215
	glass	3	Phosphoric Acid	TOC	1215
	plastic	1		Alkalinity	1215
	plastic	1		Chloride	1215
	plastic	1		Dissolved Metals	1215
	glass	3	HCL	1,4 Dioxane	1215
	glass	2		Dowtherm	1215

Comments: Ferrus Iron = 0.05

Signature: Justin Butler

Date: 4/1/14

Well/Piezo ID: MW-114

Ground Water Sample Collection Record

Client:	Celanese	Date:	4/2/14
Project No:	60280417	Time: Start	0845 am/pm
Site Location:	Spartanburg, SC	Finish	1010 am/pm
Weather Conds:	Clear/50's	Collector(s)	Justin Butler

WATER LEVEL DATA: (measured from Top of Casing)

Well Piezometer

a. Total Well Length 36.15 c. Casing Material PVC e. Length of Water Column _____

b. Water Table Depth 30.50 d. Casing Diameter 2" f. Calculated Well Volume (see back) _____

WELL PURGING DATA

a. Purge Method Grindles/Low Flow

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
0856	Inhal 2.0gal	14.82	5.08	1480.133	90.58	6.27	145.6	NA	30.66
0901	9375	15.66	5.00	0.128	47.51	6.17	151.0	NA	30.66
0906	11250	16.22	4.96	0.126	51.56	6.07	153.8	NA	30.66
0911	13125	16.63	4.95	0.126	13.79	6.03	153.7	NA	30.66
0916	15000	16.84	4.94	0.123	10.92	6.14	153.2	NA	30.66
0921	16875	16.95	4.95	0.123	5.03	6.07	153.3	NA	30.66

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-114	glass	3		VOCs (8260)	0925
↓	glass	3	phosphoric/lept	TOC	0925
	plastic	1		Alkalinity	0925
	plastic	1		Chloride	0925
	plastic	1		Dissolved Metals	0925
	glass	3	HCL	1,4 Dioxane	0925
	glass	2		Deuterium	0925

Comments: * Duplicate - Ferrus Iron - 0.17
MW-402 @ 0955

Signature: Justin Butler

Date: 4/2/14

Well/Piezo ID: RW-115

Ground Water Sample Collection Record

Client:	<u>Celanese</u>	Date:	<u>4/2/14</u>
Project No:	<u>60280417</u>	Time: Start	<u>1020</u> am/pm
Site Location:	<u>Spartanburg, SC</u>	Finish	<u>1245</u> am/pm
Weather Conds:	<u>Clear 60's</u>	Collector(s)	<u>Justin Butler</u>

WATER LEVEL DATA: (measured from Top of Casing)

Well Piezometer

a. Total Well Length 88.65 c. Casing Material PVC e. Length of Water Column _____
 b. Water Table Depth 32.87 d. Casing Diameter 2" f. Calculated Well Volume (see back) _____

WELL PURGING DATA

a. Purge Method Ground Posing / Low Flow

b. Acceptance Criteria defined (from workplan)
 - Minimum Required Purge Volume (@ _____ well volumes) _____
 - Maximum Allowable Turbidity _____ NTUs
 - Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
10:38	Initial gal	19.07	6.63	0.333	107.1	4.03	122.3	NA	33.34
10:43	5625	19.52	6.79	0.308	154.9	4.85	121.5	NA	33.34
10:48	7500	19.55	6.81	0.310	337.5	5.67	121.0	NA	33.34
10:53	9375	19.86	7.10	0.333	520.1	5.47	120.8	NA	33.30
10:58	11250	19.82	7.38	0.346	674.8	5.56	120.4	NA	33.28
11:03	15000	20.11	7.71	0.353	744.0	3.51	120.3	NA	33.27
11:08	16875	20.36	7.89	0.355	791.5	5.41	119.8	NA	33.27

Continued Next Page

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>RW-115</u>	<u>glass</u>	<u>3</u>		<u>VOCs (8260)</u>	<u>1200</u>
	<u>glass</u>	<u>3</u>	<u>phosphoric acid</u>	<u>Toc</u>	<u>1200</u>
	<u>plastic</u>	<u>1</u>		<u>Alkalinity</u>	<u>1200</u>
	<u>plastic</u>	<u>1</u>		<u>Chloride</u>	<u>1200</u>
	<u>plastic</u>	<u>1</u>		<u>Dissolved metals</u>	<u>1200</u>
	<u>glass</u>	<u>3</u>	<u>HCl</u>	<u>1,4 dioxene</u>	<u>1200</u>
	<u>glass</u>	<u>2</u>		<u>Dowtherm</u>	<u>1200</u>

Comments Ferrous Iron - 0.69

Signature [Signature]

Date 4/2/14

Well/Piezo ID: RW-115

Ground Water Sample Collection Record

Client: Celanese Date: 4/21/14
 Project No: 60280417 Time: Start _____ am/pm
 Site Location: Spartanburg, SC Finish _____ am/pm
 Weather Conds: _____ Collector(s) _____

WATER LEVEL DATA: (measured from Top of Casing) Well Piezometer
 a. Total Well Length _____ c. Casing Material _____ e. Length of Water Column _____
 b. Water Table Depth _____ d. Casing Diameter _____ f. Calculated Well Volume (see back) _____

WELL PURGING DATA
 a. Purge Method _____
 b. Acceptance Criteria defined (from workplan)
 - Minimum Required Purge Volume (@ _____ well volumes) _____
 - Maximum Allowable Turbidity _____ NTUs
 - Stabilization of parameters _____
 c. Field Testing Equipment Used: Make Model Serial Number

 d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Flow rate log to clear

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1113	18750	20.61	8.00	0.356	821.7	5.30	119.5	NA	33.26
1118	20625	20.36	8.10	0.354	742.5	5.33	119.3	NA	33.26
1145	—	19.68	6.01	0.174	17.06	5.55	128.1	NA	31.06
1150	—	19.62	5.97	0.174	9.11	5.50	129.1	NA	31.05
1155	—	19.68	5.95	0.172	7.38	5.50	130.1	NA	31.04

e. Acceptance criteria pass/fail Yes No N/A
 Has required volume been removed
 Has required turbidity been reached
 Have parameters stabilized
 If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
	glass	3		VOCs (8260)	

Comments _____

Signature _____

Date ___ / ___ / ___

Well/Piezo ID: RW-116

Ground Water Sample Collection Record

Client:	<u>Celanese</u>	Date:	<u>4/11/14</u>
Project No:	<u>60280417</u>	Time: Start	<u>1345</u> am/pm
Site Location:	<u>Spartanburg, SC</u>	Finish	<u>1545</u> am/pm
Weather Conds:	<u>Partly Cloudy / 70's Collector(s) <u>Justin Butler</u></u>		

WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length	<u>31.29</u>	c. Casing Material	<u>PVC</u>	e. Length of Water Column	_____
b. Water Table Depth	<u>3.58</u>	d. Casing Diameter	<u>2"</u>	f. Calculated Well Volume (see back)	_____

Well Piezometer

WELL PURGING DATA

a. Purge Method Peristaltic / Low Flow

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1422	Initial	25.01	6.30	0.155	1.61	7.25	92.2	NA	4.82
1427	1000	20.83	5.90	0.154	1.90	2.90	114.0	NA	4.84
1432	2000	19.74	5.62	0.136	1.71	3.26	123.5	NA	4.84
1437	3000	19.34	5.16	0.133	1.14	3.55	132.5	NA	4.84
1442	4000	18.70	4.81	0.132	1.87	3.52	138.4	NA	4.85
1447	5000	18.51	4.77	0.135	3.08	3.60	139.2	NA	4.85
1452	6000	18.66	4.74	0.134	1.68	3.60	139.8	NA	4.86

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
RW-116	glass	3		VOCs (8260)	1455
	glass	3	Phosphoric Acid	TOC	1455
	Plastic	1		Alkalinity	1455
	Plastic	1		Chloride	1455
	Plastic	1		Dissolved Metals	1455
	glass	3	HCL	1,4 Dioxane	1455
	glass	2		Dow Term	1455

Comments: Ferrus Iron = 0.06

Signature: Justin Butler

Date: 4/11/14

Well/Piezo ID: MW-118

Ground Water Sample Collection Record

Client:	<u>Celanese</u>	Date:	<u>4/1/14</u>
Project No:	<u>60280417</u>	Time: Start	<u>1600</u> am/pm
Site Location:	<u>Spartanburg, SC</u>	Finish	<u>1900</u> am/pm
Weather Conds:	<u>Clear / 80's</u>	Collector(s)	<u>Justin Butler</u>

WATER LEVEL DATA: (measured from Top of Casing) Well Piezometer

a. Total Well Length 44.00 c. Casing Material PVC e. Length of Water Column _____

b. Water Table Depth 31.75 d. Casing Diameter 2" f. Calculated Well Volume (see back) _____

WELL PURGING DATA

a. Purge Method Groundros Pump / Low Flow

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Purged
2 Gal

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1703	Initial	18.92	4.76	0.084	83.13	6.38	141.2	NA	33.30
1708	9875	19.11	4.69	0.079	43.51	6.48	145.7	NA	33.30
1713	11250	18.99	4.71	0.077	22.08	6.36	146.9	NA	33.30
1718	13125	19.12	4.74	0.076	6.35	6.44	148.2	NA	33.30
1723	15060	19.15	4.73	0.074	6.56	6.46	148.4	NA	33.30
1728	16875	19.11	4.81	0.074	3.57	6.41	149.3	NA	33.30

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-118	glass	3		VOCs (8260)	1730
	glass	3	Phosphoric Acid	TOC	1730
	Plastic	1		Alkalinity	1730
	Plastic	1		Chloride	1730
	Plastic	1		Dissolved Oxygen	1730
	glass	3	HCL	1,4 Dioxane	1730
	glass	2		Dow therm	

Comments: Ferrous Iron: 0.11
Attempted sample with Peristaltic Pump

Signature: Justin Butler Date: 4/1/14

Well/Piezo ID:
AW-119

Ground Water Sample Collection Record

Client:	<u>Celanese</u>	Date:	<u>4/11/14</u>
Project No:	<u>60280417</u>	Time: Start	<u>0850</u> am/pm
Site Location:	<u>Spartanburg, SC</u>	Finish	<u>1900</u> am/pm
Weather Conds:	<u>Partly Cloudy/40's Collector(s) <u>Justin Butler</u></u>		

WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length	<u>90.10</u>	c. Casing Material	<u>PVC</u>	Well <input checked="" type="checkbox"/>	Piezometer <input type="checkbox"/>
b. Water Table Depth	<u>31.33</u>	d. Casing Diameter	<u>2"</u>	e. Length of Water Column	_____
				f. Calculated Well Volume (see back)	_____

WELL PURGING DATA

a. Purge Method Teflon Bailers/Purge Day

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
0905	<u>Partial</u>	<u>15.73</u>	<u>7.38</u>	<u>0.090</u>	<u>2.70</u>	<u>7.83</u>	<u>148.9</u>	<u>NA</u>	<u>---</u>
0913	<u>~3</u>	<u>16.03</u>	<u>6.90</u>	<u>0.266</u>	<u>3.55</u>	<u>4.62</u>	<u>136.2</u>	<u>NA</u>	<u>---</u>
0920	<u>~6</u>	<u>16.23</u>	<u>6.99</u>	<u>0.257</u>	<u>8.37</u>	<u>5.17</u>	<u>129.3</u>	<u>NA</u>	<u>---</u>
0936	<u>~9</u>	<u>15.86</u>	<u>7.02</u>	<u>0.247</u>	<u>53.1</u>	<u>5.84</u>	<u>128.3</u>	<u>NA</u>	<u>---</u>
0930	<u>Dry ~11</u>	<u>15.83</u>	<u>7.23</u>	<u>0.269</u>	<u>257.7</u>	<u>8.20</u>	<u>127.5</u>	<u>NA</u>	<u>---</u>
1825					<u>3.74</u>				

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Have parameters stabilized	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>AW-119</u>	<u>glass</u>	<u>3</u>		<u>VOCs (8260)</u>	<u>1825</u>
	<u>glass</u>	<u>3</u>	<u>phosphoric acid</u>	<u>TOC</u>	<u>1825</u>
	<u>plastic</u>	<u>1</u>		<u>Alkalinity</u>	<u>1825</u>
	<u>plastic</u>	<u>1</u>		<u>chloride</u>	<u>1825</u>
	<u>plastic</u>	<u>1</u>		<u>Dissolved metals</u>	<u>1825</u>
	<u>glass</u>	<u>3</u>	<u>HCL</u>	<u>1,4 Dioxane</u>	<u>1825</u>
	<u>glass</u>	<u>2</u>		<u>Dow Therm</u>	<u>1825</u>

Comments Ferrous Iron = 0.12

Signature [Signature]

Date 4/11/14

Well/Piezo ID: MW-120

Ground Water Sample Collection Record

Client:	<u>Celanese</u>	Date:	<u>4/2/14</u>
Project No:	<u>60280417</u>	Time: Start	<u>1400</u> am/pm
Site Location:	<u>Spartanburg, SC</u>	Finish	<u>1605</u> am/pm
Weather Conds:	<u>clear / 80's</u>	Collector(s)	<u>Justin Butler</u>

WATER LEVEL DATA: (measured from Top of Casing)

Well Piezometer

a. Total Well Length 55.03 c. Casing Material PVC e. Length of Water Column _____

b. Water Table Depth 32.36 d. Casing Diameter 2" f. Calculated Well Volume (see back) _____

WELL PURGING DATA

a. Purge Method Ground Pos / Low Flow

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1430	Initial 1gal	20.22	4.95	0.073	75.47	4.96	144.3	N/A	35.65
1435	5625	21.66	4.87	0.072	34.50	4.61	148.4	N/A	35.72
1440	7500	21.71	4.86	0.073	9.67	4.66	149.5	N/A	36.72
1445	9375	22.06	4.87	0.074	7.43	4.59	150.0	N/A	35.74
1450	11250	21.69	4.86	0.073	5.29	4.56	150.2	N/A	35.74
1455	15000	21.92	4.88	0.073	9.11	4.51	150.0	N/A	35.75

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Have parameters stabilized	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-120</u>	glass	3		VOCs (8260)	1500
	glass	3	Phosphoric Acid	TOC	1500
	plastic	1		Alkalinity	1500
	plastic	1		chloride	1500
	plastic	1		Dissolved metals	1500
	glass	3	HCL	1,4 Dioxane	1500
	glass	2		PDW Therm	1500

Comments: MS/MSD Ferrous Ion - 0.02

Signature: [Signature] Date: 4/2/14

Well/Piezo ID: RW-121

Ground Water Sample Collection Record

Client:	<u>Celanese</u>	Date:	<u>4/2/14</u>
Project No:	<u>60280417</u>	Time: Start	<u>1615</u> am/pm
Site Location:	<u>Spartanburg, SC</u>	Finish	<u>1800</u> am/pm
Weather Conds:	<u>Clear / 30's</u>	Collector(s)	<u>Justin Butler</u>

WATER LEVEL DATA: (measured from Top of Casing) Well Piezometer

a. Total Well Length 79.66 c. Casing Material PVC e. Length of Water Column _____

b. Water Table Depth 32.98 d. Casing Diameter 2" f. Calculated Well Volume (see back) _____

WELL PURGING DATA

a. Purge Method Gravelos / Low Flow

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1640	Initial / gal	18.61	6.96	0.237	5.40	2.30	118.3	NA	37.39
1645		18.52	6.86	0.231	2.59	2.39	119.1	NA	39.77
1650		19.68	6.87	0.232	1.88	1.82	117.8	NA	40.40
1655		20.30	6.95	0.232	1.93	1.96	116.4	NA	40.48
1700		20.04	6.97	0.232	1.65	1.97	116.2	NA	40.49
1705		19.67	6.98	0.232	1.79	1.95	116.4	NA	40.50

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>RW-121</u>	<u>glass</u>	<u>3</u>		<u>VOCs (8260)</u>	<u>1710</u>
	<u>glass</u>	<u>3</u>	<u>Phosphoric Acid</u>	<u>DOC</u>	<u>1710</u>
	<u>Plastic</u>	<u>1</u>		<u>Alkalinity</u>	<u>1710</u>
	<u>Plastic</u>	<u>1</u>		<u>chloride</u>	<u>1710</u>
	<u>Plastic</u>	<u>1</u>		<u>Dissolved metals</u>	<u>1710</u>
	<u>glass</u>	<u>3</u>	<u>HCL</u>	<u>1,4 Dioxane</u>	<u>1710</u>
	<u>glass</u>	<u>2</u>		<u>low TCM</u>	

Comments: Ferric Iron 0.0

Signature: Justin Butler

Date: 4/2/14

Well/Piezo ID: MW-122

Ground Water Sample Collection Record

Client: Celanese Date: 04/03/14
 Project No: 60280417 Time: Start 0925 am/pm
 Site Location: Spartanburg, SC Finish _____ am/pm
 Weather Conds: cloudy 07 Collector(s): Randy Morgan

WATER LEVEL DATA: (measured from Top of Casing)
 a. Total Well Length 57.39 c. Casing Material PVC Well Piezometer
 b. Water Table Depth 18.53 d. Casing Diameter 2.0 e. Length of Water Column 38.86
 f. Calculated Well Volume (see back) 6.33

WELL PURGING DATA
 a. Purge Method gravel pump
 b. Acceptance Criteria defined (from workplan)
 - Minimum Required Purge Volume (@ _____ well volumes) _____
 - Maximum Allowable Turbidity _____ NTUs
 - Stabilization of parameters _____
 c. Field Testing Equipment Used:
 Make Model Serial Number
YSI 556 05C1520 AU

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____
(gals) (mScm)

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
0930	.75	19.54	4.92	0.060	300.2	4.35	204.5	none	18.90
0935	1.25	19.74	4.94	0.053	130.7	4.49	214.8	none	18.90
0940	1.75	19.91	4.96	0.054	30.54	4.55	221.6	none	18.91
0945	2.25	20.22	4.94	0.055	26.58	4.59	228.6	none	18.92
0950	2.75	20.45	4.97	0.055	13.92	4.61	228.3	none	18.93
0955	3.25	20.48	4.99	0.054	10.09	4.60	227.6	none	18.93
1000	4.0	20.68	5.11	0.053	7.03	4.59	219.8	none	18.94

e. Acceptance criteria pass/fail
 Has required volume been removed Yes No N/A
 Has required turbidity been reached Yes No N/A
 Have parameters stabilized Yes No N/A
 If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-122</u>	<u>glass</u>	<u>3</u>		<u>VOCs (8260)</u>	<u>1007</u>
<u>MW-122</u>	<u>glass</u>	<u>3</u>	<u>phosphoric B-1</u>	<u>TOC</u>	<u>1007</u>
<u>MW-122</u>	<u>plastic</u>	<u>1</u>	<u>none</u>	<u>Chloride</u>	<u>1007</u>
<u>MW-122</u>	<u>plastic</u>	<u>1</u>	<u>none</u>	<u>Alkalinity</u>	<u>1007</u>
<u>MW-122</u>	<u>plastic</u>	<u>1</u>	<u>none</u>	<u>Dissolved Metals</u>	<u>1007</u>

Comments Fe = 0.08 mg/l

Signature Randy Morgan

Date 04/03/14

Well/Piezo ID: RW-123

Ground Water Sample Collection Record

Client:	Celanese	Date:	04/03/14
Project No:	60280417	Time: Start	0756 am/pm
Site Location:	Spartanburg, SC	Finish	0836 am/pm
Weather Conds:	<u>overcast 60</u> Collector(s) <u>Randy Morgan</u>		

WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 137.03 c. Casing Material PVC e. Length of Water Column 111.63
 b. Water Table Depth 25.40 d. Casing Diameter 2.0 f. Calculated Well Volume (see back) 18.19

Well Piezometer

WELL PURGING DATA

a. Purge Method groundwater pump
 b. Acceptance Criteria defined (from workplan)
 - Minimum Required Purge Volume (@ _____ well volumes) _____
 - Maximum Allowable Turbidity _____ NTUs
 - Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	05C1520 AU

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	TEMP C	pH S.U.	Spec. Cond (µmhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
0801	1.5	19.65	7.21	0.162	9.73	0.70	204.7	none	26.64
0806	1.0	19.87	7.31	0.164	8.38	0.46	133.3	none	27.18
0811	1.5	19.95	7.34	0.162	3.96	0.41	93.5	none	27.35
0816	2.0	20.02	7.32	0.163	2.61	0.38	54.7	none	27.50
0821	2.5	19.97	7.25	0.162	2.08	0.38	47.6	none	27.63
0826	3.0	20.12	7.41	0.161	1.69	0.40	36.8	none	27.71
0831	3.5	20.13	7.42	0.163	1.09	0.43	44.5	none	27.94
0836	4.0	20.25	7.41	0.161	0.46	0.47		none	27.89

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>RW-123</u>	<u>glass</u>	<u>3</u>	<u>none</u>	<u>VOCs (8260)</u>	<u>0843</u>
<u>RW-123</u>	<u>glass</u>	<u>3</u>	<u>phosphoric B-1</u>	<u>TOC</u>	<u>0843</u>
<u>RW-123</u>	<u>plastic</u>	<u>1</u>	<u>none</u>	<u>Chloride</u>	<u>0843</u>
<u>RW-123</u>	<u>plastic</u>	<u>1</u>	<u>none</u>	<u>Alkalinity</u>	<u>0843</u>
<u>RW-123</u>	<u>plastic</u>	<u>1</u>	<u>none</u>	<u>Dissolved Metals</u>	<u>0843</u>

Comments Fe = 0.0 mg/L

Signature Randy Morgan Date 04/03/2014

Blind Duplicate collected ID RW-403 @ 0800 All analysis

Well/Piezo ID: MW-124

Ground Water Sample Collection Record

Client:	Celanese	Date:	04/03/14
Project No:	60280417	Time: Start	1038 am/pm
Site Location:	Spartanburg, SC	Finish	am/pm
Weather Conds:	cloudy 63	Collector(s):	Randy Morgan

WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length	<u>59.50</u>	c. Casing Material	<u>PVC</u>	e. Length of Water Column	<u>37.38</u>
b. Water Table Depth	<u>22.12</u>	d. Casing Diameter	<u>2.0</u>	f. Calculated Well Volume (see back)	<u>6.09</u>

Well Piezometer

WELL PURGING DATA

a. Purge Method grundfos pump

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

YSI	Make	Model	Serial Number
		556	05C1520 AU

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1043	1.5	20.03	4.77	0.060	187.0	6.48	244.3	none	23.03
1048	1.0	20.66	4.85	0.063	166.0	6.48	240.5	none	23.02
1053	1.5	21.11	4.90	0.061	83.65	6.24	238.6	none	23.18
1058	2.0	21.17	4.91	0.062	48.01	6.14	240.6	none	23.12
1103	2.5	21.48	4.94	0.062	28.39	6.05	237.5	none	23.11
1108	3.0	21.46	4.86	0.063	21.14	6.02	240.8	none	23.15
1113	3.5	21.59	4.94	0.061	15.26	5.95	239.1	none	23.19
1118	4.0	21.80	4.98	0.062	9.33	5.83	238.4	none	23.20

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-124</u>	glass	3	<u>none</u>	VOCs (8260)	<u>1125</u>
<u>MW-124</u>	glass	3	phosphoric B-1	TOC	<u>1125</u>
<u>MW-124</u>	plastic	1	none	Chloride	<u>1125</u>
<u>MW-124</u>	plastic	1	none	Alkalinity	<u>1125</u>
<u>MW-124</u>	plastic	1	none	Dissolved Metals	<u>1125</u>

Comments Fe = 0.06 mg/L

Signature Randy Morgan

Date 04/03/2014

Well/Piezo ID: MW-126

Ground Water Sample Collection Record

Client:	<u>Celanese</u>	Date:	<u>4/3/14</u>
Project No:	<u>60280417</u>	Time: Start	<u>0805</u> am/pm
Site Location:	<u>Spartanburg, SC</u>	Finish	<u>0920</u> am/pm
Weather Conds:	<u>cloudy/60's</u>	Collector(s)	<u>Justin Butler</u>

WATER LEVEL DATA: (measured from Top of Casing)

Well Piezometer

a. Total Well Length 49.15 c. Casing Material PVC e. Length of Water Column _____
 b. Water Table Depth 24.25 d. Casing Diameter 2" f. Calculated Well Volume (see back) _____

WELL PURGING DATA

a. Purge Method Peristaltic/Low Flow

b. Acceptance Criteria defined (from workplan)
 - Minimum Required Purge Volume (@ _____ well volumes) _____
 - Maximum Allowable Turbidity _____ NTUs
 - Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number
_____	_____	_____
_____	_____	_____

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
0821	<u>Initial</u>	<u>17.83</u>	<u>4.83</u>	<u>0.202</u>	<u>1.63</u>	<u>8.96</u>	<u>162.2</u>	<u>NA</u>	<u>24.35</u>
0826	<u>1000</u>	<u>17.80</u>	<u>4.34</u>	<u>0.171</u>	<u>0.66</u>	<u>7.08</u>	<u>176.6</u>	<u>NA</u>	<u>24.36</u>
0831	<u>2000</u>	<u>17.77</u>	<u>4.23</u>	<u>0.171</u>	<u>0.30</u>	<u>6.87</u>	<u>182.6</u>	<u>NA</u>	<u>24.37</u>
0836	<u>3000</u>	<u>17.77</u>	<u>4.16</u>	<u>0.169</u>	<u>0.19</u>	<u>6.71</u>	<u>184.6</u>	<u>NA</u>	<u>24.37</u>
0841	<u>4000</u>	<u>17.91</u>	<u>4.13</u>	<u>0.170</u>	<u>0.12</u>	<u>6.58</u>	<u>185.8</u>	<u>NA</u>	<u>24.37</u>
0846	<u>5000</u>	<u>18.13</u>	<u>4.15</u>	<u>0.170</u>	<u>0.01</u>	<u>6.53</u>	<u>185.5</u>	<u>NA</u>	<u>24.37</u>
0851	<u>6000</u>	<u>18.20</u>	<u>4.15</u>	<u>0.168</u>	<u>0.01</u>	<u>6.52</u>	<u>185.8</u>	<u>NA</u>	<u>24.37</u>

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION:

Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-126</u>	<u>glass</u>	<u>3</u>		<u>VOCs (8260)</u>	<u>0855</u>
	<u>glass</u>	<u>3</u>	<u>Phosphoric Acid</u>	<u>TOC</u>	<u>0855</u>
	<u>Plastic</u>	<u>1</u>		<u>Alkalinity</u>	<u>0855</u>
	<u>Plastic</u>	<u>1</u>		<u>Chloride</u>	<u>0855</u>
	<u>Plastic</u>	<u>1</u>		<u>Dissolved metals</u>	<u>0855</u>

Comments Ferric Iron - 0.04

Signature Justin Butler

Date 4/3/14

Well/Piezo ID: RW-127

Ground Water Sample Collection Record

Client:	<u>Celanese</u>	Date:	<u>4/3/14</u>
Project No:	<u>60280417</u>	Time: Start	<u>0930</u> am/pm
Site Location:	<u>Spartanburg, SC</u>	Finish	<u>1100</u> am/pm
Weather Conds:	<u>Cloudy 160's</u>	Collector(s)	<u>Justin Butler</u>

WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length	<u>92.42</u>	c. Casing Material	<u>PVC</u>	e. Length of Water Column	_____
b. Water Table Depth	<u>26.53</u>	d. Casing Diameter	<u>2"</u>	f. Calculated Well Volume (see back)	_____

Well Piezometer

WELL PURGING DATA

a. Purge Method Peristaltic/Low Flow

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
0943	Initial	19.80	6.42	0.352	0.97	7.13	141.2	NA	26.62
0948	1000	19.63	6.67	0.362	0.99	1.86	140.5	NA	26.67
0953	2000	19.53	6.76	0.370	0.89	1.80	139.8	NA	26.70
0958	3000	19.53	6.81	0.370	0.72	1.48	138.9	NA	26.72
1003	4000	19.89	6.85	0.369	0.52	1.38	138.2	NA	26.73
1008	5000	19.72	6.88	0.369	0.44	1.20	137.6	NA	26.74
1013	6000	19.81	6.90	0.369		1.17	137.2	NA	

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Have parameters stabilized	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>RW-127</u>	<u>glass</u>	<u>3</u>	<u> </u>	<u>VOCs (8260)</u>	<u>1015</u>
<u>↓</u>	<u>glass</u>	<u>3</u>	<u>Phosphoric Acid</u>	<u>TOC</u>	<u>1015</u>
<u>↓</u>	<u>Plastic</u>	<u>1</u>	<u> </u>	<u>Alkalinity</u>	<u>1015</u>
<u>↓</u>	<u>Plastic</u>	<u>1</u>	<u> </u>	<u>Chloride</u>	<u>1015</u>
<u>↓</u>	<u>Plastic</u>	<u>1</u>	<u> </u>	<u>Dissolved Metals</u>	<u>1015</u>

Comments Ferrus Iron 0.00

Signature Justin Butler

Date 4/3/14

Well/Piezo ID: MW-128

Ground Water Sample Collection Record

Client: Celanese Date: 04/02/14
 Project No: 60280417 Time: Start 1642 am/pm
 Site Location: Spartanburg, SC Finish _____ am/pm
 Weather Conds: _____ Collector(s) Randy Mergo

WATER LEVEL DATA: (measured from Top of Casing) Well Piezometer
 a. Total Well Length 59.90 c. Casing Material PVC e. Length of Water Column 25.97
 b. Water Table Depth 33.93 d. Casing Diameter 2.0 f. Calculated Well Volume (see back) 4.23

WELL PURGING DATA
 a. Purge Method granular pump
 b. Acceptance Criteria defined (from workplan)
 - Minimum Required Purge Volume (@ _____ well volumes) _____
 - Maximum Allowable Turbidity _____ NTUs
 - Stabilization of parameters _____
 c. Field Testing Equipment Used: Make _____ Model _____ Serial Number _____
 YSI _____ 556 _____ 05C1520 AU

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1647	.50	21.61	4.51	0.031	90.69	9.25	260.0	none	35.83
1652	1.0	22.44	4.50	0.031	76.94	9.34	262.9	none	36.00
1657	1.5	22.95	4.26	0.031	38.64	9.16	259.9	none	36.10
1702	2.0	22.86	4.18	0.031	21.62	9.25	278.8	none	36.09
1707	2.5	23.25	4.08	0.031	20.69	8.49	264.0	none	36.19
1712	3.0	23.37	4.12	0.031	8.79	9.10	275.6	none	36.07
1717	3.5	23.37	4.21	0.031	9.73	9.28	280.1	none	36.10

e. Acceptance criteria pass/fail
 Has required volume been removed Yes No N/A
 Has required turbidity been reached Yes No N/A
 Have parameters stabilized Yes No N/A
 If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-128</u>	<u>glass</u>	<u>3</u>	<u>none</u>	<u>VOCs (8260)</u>	<u>1723</u>
<u>MW-128</u>	<u>glass</u>	<u>3</u>	<u>phosphoric B-1</u>	<u>TOC</u>	<u>1723</u>
<u>MW-128</u>	<u>plastic</u>	<u>1</u>	<u>none</u>	<u>Chloride</u>	<u>1723</u>
<u>MW-128</u>	<u>plastic</u>	<u>1</u>	<u>none</u>	<u>Alkalinity</u>	<u>1723</u>
<u>MW-128</u>	<u>plastic</u>	<u>1</u>	<u>none</u>	<u>Dissolved Metals</u>	<u>1723</u>

Comments Fe = 0.08

Signature Randy Mergo Date 04/02/14

Well/Piezo ID: RW-129

Ground Water Sample Collection Record

Client:	Celanese	Date:	04/02/14
Project No:	60280417	Time: Start	1415 am/pm
Site Location:	Spartanburg, SC	Finish	1525 am/pm
Weather Conds:	Clear Sunny		
Collector(s):	Randy Morja		

WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length	<u>150.03</u>	c. Casing Material	<u>PVC</u>	e. Length of Water Column	<u>107.73</u>
b. Water Table Depth	<u>42.30</u>	d. Casing Diameter	<u>2.0</u>	f. Calculated Well Volume (see back)	<u>17.56</u>

Well Piezometer

WELL PURGING DATA

a. Purge Method granulos pump

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

	Make	Model	Serial Number
	YSI	556	05C1520 AU

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1425	8.0	22.88	6.55	0.457	6.24	1.51	69.3	none	74.93
1447	5.0	20.90	6.33	0.439	7.20	0.47	53.6	none	64.73
1455	10.0	20.93	6.37	0.438	2.01	0.36	31.9	none	81.13
1510	13.0	21.86	6.61	0.433	0.32	0.38	12.8	none	81.08
1515	13.5	21.90	6.61	0.428	0.05	0.25	1.7	none	78.38
1520	14.0	21.69	6.53	0.431	0.01	0.23	2.2	none	76.57
1525	14.5	21.62	6.49	0.433	0.01	0.20	3.5	none	75.62

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>RW-129</u>	glass	3	<u>none</u>	VOCs (8260)	<u>1530</u>
<u>RW-129</u>	glass	3	phosphoric B-1	TOC	<u>1530</u>
<u>RW-129</u>	plastic	1	none	Chloride	<u>1530</u>
<u>RW-129</u>	plastic	1	none	Alkalinity	<u>1530</u>
<u>RW-129</u>	plastic	1	none	Dissolved Metals	<u>1530</u>

Comments Fe = 0.08

Signature Randy Morja Date 04/02/14

1440 WL 48.25 turn pump up to pump well dry - low yield
 1500 WL 85.69 turn pump down to see if well was recovering, it is very fast
 1505 WL 82.88 ideal pump turn down
 1535 WL 73.68

Well/Piezo ID: MW-130

Ground Water Sample Collection Record

Client:	Celanese	Date:	04/01/04
Project No:	60280417	Time: Start	1119 am/pm
Site Location:	Spartanburg, SC	Finish	1150 am/pm
Weather Conds:	cloudy 58 Collector(s) <u>Randy Morgan</u>		

WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length	<u>60.34</u>	c. Casing Material	<u>PVC</u>	Well <input checked="" type="checkbox"/>	Piezometer <input type="checkbox"/>
b. Water Table Depth	<u>51.90</u>	d. Casing Diameter	<u>2.0</u>	e. Length of Water Column	<u>8.44</u>
				f. Calculated Well Volume (see back)	<u>1.37</u>

WELL PURGING DATA

a. Purge Method Grundfos pump

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number
<u>YSI</u>	<u>556</u>	<u>05C1520 AU</u>

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

(MSM)

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1120	0.75	22.17	4.99	0.028	44.50	3.15	263.7	none	52.29
1125	1.50	23.41	5.10	0.028	52.03	3.43	268.7	none	52.30
1130	2.25	23.67	5.10	0.029	40.23	3.18	269.4	none	52.28
1135	3.0	23.88	5.20	0.028	41.79	3.28	263.3	none	52.28
1140	3.75	23.97	5.17	0.029	23.44	3.23	270.4	none	52.26
1145	4.50	24.10	4.99	0.029	15.47	3.23	281.1	none	52.28
1150	5.25	24.28	5.15	0.029	16.85	2.98	269.8	none	52.27

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-130</u>	<u>glass</u>	<u>3</u>		<u>VOCs (8260)</u>	<u>1200</u>
<u>MW-130</u>	<u>glass</u>	<u>3</u>	<u>phosphoric B-1</u>	<u>TOC</u>	<u>1200</u>
<u>MW-130</u>	<u>plastic</u>	<u>1</u>	<u>none</u>	<u>Chloride</u>	<u>1200</u>
<u>MW-130</u>	<u>plastic</u>	<u>1</u>	<u>none</u>	<u>Alkalinity</u>	<u>1200</u>
<u>MW-130</u>	<u>plastic</u>	<u>1</u>	<u>none</u>	<u>Dissolved Metals</u>	<u>1200</u>

Comments Fe = 0.04 mg/l Also collect MS/MSD for all analysis
MW-130-VMS / MW-130-MSD

Signature Randy Morgan

Date 04/01/2004

Well/Piezo ID: Residual Pump RW-131

Ground Water Sample Collection Record

Client:	<u>Celanese</u>	Date:	<u>04/01/14</u>
Project No:	<u>60280417</u>	Time: Start	<u>1020</u> am/pm
Site Location:	<u>Spartanburg, SC</u>	Finish	<u>1023</u> am/pm
Weather Conds:	<u>Clear/Sunny</u> Collector(s) <u>Randy Morgan</u>		

WATER LEVEL DATA: (measured from Top of Casing)

Well Piezometer

a. Total Well Length 139.80 c. Casing Material PVC e. Length of Water Column 5.71

b. Water Table Depth 134.09 d. Casing Diameter 2.0 f. Calculated Well Volume (see back) 0.93

WELL PURGING DATA

a. Purge Method teflon baller

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number
<u>YSI</u>	<u>556</u>	<u>05C1520AU</u>

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # Daily dated today 4-01-14 Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
<u>1023</u>	<u>125</u>	<u>18.40</u>	<u>7.09</u>	<u>0.535</u>	<u>11.19</u>	<u>5.72</u>	<u>145.2</u>	<u>sulfur</u>	<u>134.09</u> (134.09)

e. Acceptance criteria pass/fail

	Yes <u>RM</u>	No	N/A
Has required volume been removed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has required turbidity been reached	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have parameters stabilized	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If no or N/A - Explain below.
very slow recovery Evielte Glover said to grab a VOC sample only from water in well then abandon

SAMPLE COLLECTION: Method: PUMP/TUBING teflon baller

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>Residual Pump RW131</u>	<u>glass</u>	<u>3</u>		<u>VOCs (8260)</u>	<u>1020</u>

Comments Fe = 0.02 mg/L

Signature Randy Morgan Date 04/01/14

Well/Piezo ID: MW-132

Ground Water Sample Collection Record

Client:	Celanese	Date:	04/02/14
Project No:	60280417	Time: Start	0942 am/pm
Site Location:	Spartanburg, SC	Finish	_____ am/pm
Weather Conds:	Clear Sunny	Collector(s)	R Morgan

WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 61.97 c. Casing Material PVC Well Piezometer

b. Water Table Depth 43.63 d. Casing Diameter 2.0 e. Length of Water Column _____

f. Calculated Well Volume (see back) _____

WELL PURGING DATA

a. Purge Method grundfos pump

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	05C1520 AU

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (uMhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
0948	1.00	19.31	4.08	0.045	78.67	0.54	311.4	none	44.64
0953	1.20	20.77	4.51	0.046	35.40	0.37	284.7	none	44.63
0958	1.80	21.31	4.55	0.046	24.16	0.30	291.2	none	44.64
1008	2.40	21.86	4.61	0.045	7.96	0.27	298.4	none	44.63
1013	3.0	21.98	4.62	0.046	7.57	0.25	303.5	none	44.64

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-132	glass	3		VOCs (8260)	1015
MW-132	glass	3	phosphoric B-1	TOC	1015
MW-132	plastic	1	none	Chloride	1015
MW-132	plastic	1	none	Alkalinity	1015
MW-132	plastic	1	none	Dissolved Metals	1015

Comments Fe = 0.01

Signature Randy Morgan Date 04/02/14

Blind - Duplicate collected (All Analysis) MW-401 @ 0830

Well/Piezo ID: RW-133

Ground Water Sample Collection Record

Client:	Celanese	Date: <u>04/02/14</u>
Project No:	60280417	Time: Start <u>0749</u> am/pm
Site Location:	Spartanburg, SC	Finish <u>0853</u> am/pm
Weather Conds:	<u>Clear / Sunny</u>	Collector(s) <u>Randy Morgan</u>

WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length	<u>116.48</u>	c. Casing Material	<u>PVC</u>	e. Length of Water Column	<u>58.54</u>
b. Water Table Depth	<u>57.94</u>	d. Casing Diameter	<u>2.0</u>	f. Calculated Well Volume (see back)	<u>9.54</u>

Well Piezometer

WELL PURGING DATA

a. Purge Method grundfos pump - low flow

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	05C1520 AU

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gals)	TEMP C	pH S.U.	Spec. Cond (µmhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
0803	4.5	17.30	5.54	0.217	51.30	4.62	143.3	none	61.90
0818	5.0	20.74	6.03	0.223	73.95	4.55	134.6	none	86.47
0837	10.0	22.50	6.33	0.235	149.88	4.54	131.1	none	107.08
0853	12.5	24.53	6.55	0.274	32.39	5.56	98.9	none	110.03
Sample 1740	12.75	18.83	5.92	0.211	23.26	2.58	158.9	none	85.38

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If no or N/A - Explain below.
low yield well - pump dry - allow to recover to sample

SAMPLE COLLECTION: Method: PUMP TUBING tetlon boiler

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>RW-133</u>	glass	3		VOCs (8260)	<u>1745</u>
<u>RW-133</u>	glass	3	phosphoric B-1	TOC	<u>1745</u>
<u>RW-133</u>	plastic	1	none	Chloride	<u>1745</u>
<u>RW-133</u>	plastic	1	none	Alkalinity	<u>1745</u>
<u>RW-133</u>	plastic	1	none	Dissolved Metals	<u>1745</u>

Comments Fe = 0.02

Signature Randy Morgan Date 04/02/14

0749 begin purging at .25 gpm water level drops to 59.39
 0800 " " " " " " 61.90
 0853 pumped dry
 1740 water level 85.38

Well/Piezo ID: MW-134

Ground Water Sample Collection Record

Client:	Celanese	Date:	04/02/14
Project No:	60280417	Time: Start	1100 am/pm
Site Location:	Spartanburg, SC	Finish	1135 am/pm
Weather Conds:	Clear Sunny 75 Collector(s) <u>Randy Morgan</u>		

WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 75.07 c. Casing Material PVC Well Piezometer
 b. Water Table Depth 53.04 d. Casing Diameter 2.0 e. Length of Water Column 22.03
 f. Calculated Well Volume (see back) 3.59

WELL PURGING DATA

a. Purge Method groundfos pump
 b. Acceptance Criteria defined (from workplan)
 - Minimum Required Purge Volume (@ _____ well volumes) _____
 - Maximum Allowable Turbidity _____ NTUs
 - Stabilization of parameters _____

c. Field Testing Equipment Used:

	Make	Model	Serial Number
	YSI	556	05C1520 AU

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	TEMP C	pH S.U.	Spec. Cond (µmhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1110	1.0	21.03	4.51	0.048	254.8	2.88	205.6	none	54.71
1115	1.5	22.29	4.90	0.048	66.08	2.53	234.2	none	54.90
1120	2.0	22.76	5.00	0.048	34.06	2.36	231.0	none	54.97
1125	2.5	22.89	4.91	0.048	18.55	2.20	235.5	none	55.04
1130	3.0	22.95	4.94	0.048	12.62	2.15	234.0	none	55.08
1135	3.5	23.13	4.85	0.047	12.78	2.08	238.1	none	55.06

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION:

Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-134</u>	glass	3		VOCs (8260)	<u>1140</u>
<u>MW-134</u>	glass	3	phosphoric B-1	TOC	<u>1140</u>
<u>MW-134</u>	plastic	1	none	Chloride	<u>1140</u>
<u>MW-134</u>	plastic	1	none	Alkalinity	<u>1140</u>
<u>MW-134</u>	plastic	1	none	Dissolved Metals	<u>1140</u>

Comments Fe = 0.02 mg/L

Signature Randy Morgan

Date 04/02/14

Well/Piezo ID: MW-136

Ground Water Sample Collection Record

Client:	<u>Celanese</u>	Date:	<u>3/31/14</u>
Project No:	<u>60280417</u>	Time: Start	<u>1510</u> am/pm
Site Location:	<u>Spartanburg, SC</u>	Finish	<u>1610</u> am/pm
Weather Conds:	<u>Clear/70's</u>	Collector(s)	<u>Justin Butler</u>

WATER LEVEL DATA: (measured from Top of Casing)

Well Piezometer

a. Total Well Length 60.12 c. Casing Material PVC e. Length of Water Column _____
 b. Water Table Depth 22.72 d. Casing Diameter 3" f. Calculated Well Volume (see back) _____

WELL PURGING DATA

a. Purge Method Peristaltic/Low Flow

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1513	Initial	19.33	5.28	0.123	0.45	6.64	136.3	NA	23.11
1518	1000	19.02	5.12	0.122	0.66	6.20	143.3	NA	23.32
1523	2000	18.93	5.02	0.117	1.21	5.91	147.3	NA	23.40
1528	3000	18.74	4.96	0.117	1.13	5.92	149.7	NA	23.40
1533	4000	18.85	4.92	0.118	1.34	5.86	151.0	NA	23.40
1538	5000	18.93	4.90	0.116	1.75	5.85	152.0	NA	23.40
1543	6000	18.87	4.89	0.117	1.33	5.85	152.5	NA	23.40

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION:

Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-136</u>	<u>glass</u>	<u>3</u>		<u>VOCs (8260)</u>	<u>1543</u>
	<u>glass</u>	<u>3</u>	<u>Phosphoric Acid</u>	<u>TOC</u>	<u>1545</u>
	<u>Plastic</u>	<u>1</u>		<u>Alkalinity</u>	<u>1545</u>
	<u>Plastic</u>	<u>1</u>		<u>chloride</u>	<u>1545</u>
	<u>Plastic</u>	<u>1</u>		<u>dissolved Metals</u>	<u>1545</u>

Comments Ferrous Iron = 0.0

Signature Justin Butler

Date 3/31/14

Well/Piezo ID: BW-137

Ground Water Sample Collection Record

Client:	<u>Celanese</u>	Date:	<u>3/31/14</u>
Project No:	<u>60280417</u>	Time: Start	<u>1630</u> am/pm
Site Location:	<u>Spartanburg, SC</u>	Finish	<u>1735</u> am/pm
Weather Conds:	<u>Clear / 70's</u>	Collector(s)	<u>Justin Butler</u>

WATER LEVEL DATA: (measured from Top of Casing)

Well Piezometer

a. Total Well Length 107.21 c. Casing Material PVC e. Length of Water Column _____

b. Water Table Depth 22.30 d. Casing Diameter 2" f. Calculated Well Volume (see back) _____

WELL PURGING DATA

a. Purge Method Peristaltic / Low Flow

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
<u>1636</u>	<u>Initial</u>	<u>21.28</u>	<u>5.93</u>	<u>0.216</u>	<u>5.63</u>	<u>4.09</u>	<u>119.4</u>	<u>NA</u>	<u>22.72</u>
<u>1641</u>		<u>20.91</u>	<u>5.91</u>	<u>0.220</u>	<u>0.25</u>	<u>2.28</u>	<u>119.5</u>	<u>NA</u>	<u>22.74</u>
<u>1646</u>		<u>21.06</u>	<u>5.88</u>	<u>0.216</u>	<u>4.85</u>	<u>1.16</u>	<u>120.5</u>	<u>NA</u>	<u>22.74</u>
<u>1651</u>		<u>21.12</u>	<u>5.86</u>	<u>0.216</u>	<u>3.00</u>	<u>1.37</u>	<u>119.8</u>	<u>NA</u>	<u>22.74</u>
<u>1656</u>		<u>21.06</u>	<u>5.85</u>	<u>0.215</u>	<u>7.50</u>	<u>0.93</u>	<u>118.9</u>	<u>NA</u>	<u>22.74</u>
<u>1701</u>		<u>21.03</u>	<u>5.82</u>	<u>0.217</u>	<u>3.89</u>	<u>0.67</u>	<u>120.3</u>	<u>NA</u>	<u>22.74</u>
<u>1706</u>		<u>20.99</u>	<u>5.81</u>	<u>0.217</u>	<u>3.65</u>	<u>0.84</u>	<u>119.8</u>	<u>NA</u>	<u>22.74</u>

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Have parameters stabilized	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
	<u>glass</u>	<u>3</u>		<u>VOCs (8260)</u>	<u>1710</u>
	<u>glass</u>	<u>3</u>	<u>phosphoric acid</u>	<u>TOC</u>	<u>1710</u>
	<u>plastic</u>	<u>1</u>		<u>Alkalinity</u>	<u>1710</u>
	<u>plastic</u>	<u>1</u>		<u>chloride</u>	<u>1710</u>
	<u>plastic</u>	<u>1</u>		<u>dissolved metals</u>	<u>1710</u>

Comments Ferrous Iron = 0.22

Signature Justin Butler

Date 3/31/14

Well/Piezo ID: MW-138

Ground Water Sample Collection Record

Client:	<u>Celanese</u>	Date:	<u>3/31/14</u>
Project No:	<u>60280417</u>	Time: Start	<u>1105</u> am/pm
Site Location:	<u>Spartanburg, SC</u>	Finish	<u>1200</u> am/pm
Weather Conds:	<u>Clear/50's</u>	Collector(s)	<u>Justin Butler</u>

WATER LEVEL DATA: (measured from Top of Casing)

Well Piezometer

a. Total Well Length 59.65 c. Casing Material PVC e. Length of Water Column _____

b. Water Table Depth 11.14 d. Casing Diameter 2" f. Calculated Well Volume (see back) _____

WELL PURGING DATA

a. Purge Method Peristaltic / Low Flow

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1110	Init. 0	14.37	5.66	0.138	65.16	8.04	134.0	NA	11.35
1115	1000	14.73	5.10	0.109	8.51	6.56	143.6	NA	11.36
1120	2000	14.87	5.05	0.083	4.25	6.43	153.3	NA	11.37
1125	3000	15.13	4.95	0.071	1.69	6.32	159.5	NA	11.37
1130	4000	15.21	4.97	0.063	0.64	6.26	164.2	NA	11.37
1135	5000	15.26	4.96	0.070	0.71	6.18	167.3	NA	11.38
1140	6000	15.20	4.95	0.072	0.46	6.18	170.1	NA	11.38

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Have parameters stabilized	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-138</u>	<u>glass</u>	<u>3</u>		<u>VOCs (8260)</u>	<u>1145</u>
	<u>glass</u>	<u>3</u>	<u>Phosphoric Acid</u>	<u>TOC</u>	<u>1145</u>
	<u>Plastic</u>	<u>1</u>		<u>Alkalinity</u>	<u>1145</u>
	<u>Plastic</u>	<u>1</u>		<u>Chloride</u>	<u>1145</u>
	<u>Plastic</u>	<u>1</u>		<u>Dissolved Metals</u>	<u>1145</u>

Comments Ferrous Iron = 0.05 mg/L

Signature Justin Butler Date 3/31/14

Well/Piezo ID: RW-139

Ground Water Sample Collection Record

Client:	<u>Celanese</u>	Date:	<u>3/31/14</u>
Project No:	<u>60280417</u>	Time: Start	<u>1330</u> am/pm <u>am</u>
Site Location:	<u>Spartanburg, SC</u>	Finish	<u>1440</u> am/pm <u>pm</u>
Weather Conds:	<u>Clear/60's</u>	Collector(s)	<u>Justin Butler</u>

WATER LEVEL DATA: (measured from Top of Casing) Well Piezometer

a. Total Well Length 97.70 c. Casing Material PVC e. Length of Water Column _____

b. Water Table Depth 13.76 d. Casing Diameter 2" f. Calculated Well Volume (see back) _____

WELL PURGING DATA

a. Purge Method Peristaltic / Low Flow

b. Acceptance Criteria defined (from workplan)

- Minimum Required Purge Volume (@ _____ well volumes) _____
- Maximum Allowable Turbidity _____ NTUs
- Stabilization of parameters _____

c. Field Testing Equipment Used:

Make	Model	Serial Number

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	ORP MV	Odor	DTW
1332	Initial	17.50	5.93	0.194	2.04	8.76	121.8	NA	13.89
1337	1250	16.91	5.73	0.187	1.30	3.93	127.8	NA	13.90
1342	2500	16.91	5.61	0.189	0.74	2.84	131.1	NA	13.91
1347	3750	16.95	5.48	0.192	0.42	1.15	133.6	NA	13.91
1352	5000	16.97	5.44	0.194	0.45	0.66	134.1	NA	13.92
1357	6250	16.93	5.41	0.195	0.84	0.44	132.2	NA	13.92
1402	7500	16.94	5.39	0.195	0.64	0.46	131.6	NA	13.93

e. Acceptance criteria pass/fail

Has required volume been removed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has required turbidity been reached	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Have parameters stabilized	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PUMP TUBING

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>RW-139</u>	<u>glass</u>	<u>3</u>		<u>VOCs (8260)</u>	<u>1405</u>
↓	<u>glass</u>	<u>3</u>	<u>Phosphoric Acid</u>	<u>TOC</u>	<u>1405</u>
↓	<u>Plastic</u>	<u>1</u>		<u>Alkalinity</u>	<u>1405</u>
↓	<u>Plastic</u>	<u>1</u>		<u>chloride</u>	<u>1405</u>
↓	<u>Plastic</u>	<u>1</u>		<u>Dissolved metals</u>	<u>1405</u>

Comments Ferrous Iron = 0.12 mg/L

Signature Justin Butler

Date 3/31/14

stick p.D
365 4.6' Grant



Monitoring Well Development Log

Page _____ of _____

Total Well Depth (TWD) = 38.78 BGS 1/100 ft

Depth to Ground Water (DGW) = 12.75 BGS 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 24.45 1/100 ft

1 Casing Volume (OCV) = LWC x .163 3.98 gallons

5 Casing Volumes = 19.92 gallons

Method of Well Development bailed, gradual pump

Total Volume of Water Removed 119.5 gallons

Date Started (yr/mo/day) 13/Dec/11 Date Completed (yr/mo/day) 13/Dec-11

Field Personnel Randy Morgan

Site Name Auriga Site Spartanburg SC

Job # 60280417

Well ID # MW-112

Upgradient Downgradient

Weather Conditions Clear/Sunny

Air Temperature 40's - 50's °F

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks	DO
12-11-13	1.3	15	15.88	5.34	170.8	0.080	Brown < 100	3.0% silt	bailed	—
1300	1.5	37.5	15.82	5.37	175.3	0.076	Brown < 100	3.0% silt	30.30	6.47
1325	1.3	59.5	15.60	5.38	179.3	0.074	Brown < 100	1.0% silt	32.18	7.61
1340	1.0	74.5	15.45	5.50	171.9	0.077	Brown < 100	0%	33.80	8.78
1355	1.0	89.5	15.77	5.78	170.3	0.078	Slight 64.26	0%	28.65	8.49
1410	1.0	104.5	15.76	5.67	170.4	0.078	Clear 16.87	0%	29.80	5.32
1425	1.0	119.5	15.60	5.53	175.8	0.078	Clear 3.09	0%	29.82	5.53
1440										
1455										

surged
surged
surged
surged
Top of screen
"
"
"

COMMENTS/OBSERVATIONS: 1410 pulled pump to top of screen

Monitoring Well Development Log

Date Started (yr/mo/day) 24th Mar - 27 Date Completed (yr/mo/day) 2014-3-27
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # AW-113
 Upgradient Clear Downgradient 34
 Weather Conditions Clear / sunny
 Air Temperature _____ °F

Total Well Depth (TWD) = 70.10 BGS 1/100 ft
 Depth to Ground Water (DGW) = 18.40 BGS 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 51.70 1/100 ft
 1 Casing Volume (OCV) = LWC x .163 = 8.42 gallons
 5 Casing Volumes = 42.13 gallons
 Method of Well Development gravel pump
 Total Volume of Water Removed 130.0 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
3-27-14									
0853	2.0	10.0	16.63	7.53	209.4	0.145	1837 clear	0	Surged
0903	2.0	30.0	16.60	7.70	220.6	0.145	1217 clear	0	Surged
0913	2.0	50.0	16.52	7.67	186.3	0.145	733 clear	0	Surged
0923	2.0	70.0	16.45	7.74	145.1	0.144	645 clear	0	Surged
0933	2.0	90.0	16.56	7.74	122.3	0.145	274 clear	0	Top of water column
0943	2.0	110.0	16.58	7.68	110.1	0.145	1.8 clear	0	—
0953	2.0	130.0	16.63	7.72	109.2	0.144	0.96 clear	0	—

COMMENTS/OBSERVATIONS: (well yield high) hard to turn & surged stayed clear entire time

(set pump in screen first 5 readings) then pull to top of water column

5/16 3.0
BGS 9.0 g
BGS

Monitoring Well Development Log

60.30 TDC before being cut off
Page 1 of 1



Date Started (yrfmo/day) 12-11-13 Date Completed (yrfmo/day) 13/12/11

Field Personnel Randy Morgan

Site Name Auriga Site Spartanburg SC

Job # 60280417

Well ID # MW-114

Upgradient Clear/soamy Downgradient 305-40's

Weather Conditions Clear/soamy

Air Temperature 30.5-40's °F

Total Well Depth (TWD) = 56.41 55.50 BGS 1/100 ft

Depth to Ground Water (DGW) = 31.55 BGS 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 23.95 1/100 ft

1 Casing Volume (OCV) = LWC x .163 = 3.90 gallons

5 Casing Volumes = 19.57 gallons

Method of Well Development bailed/grindstones pump

Total Volume of Water Removed 126.6 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
0845	Bailed	3	-	-	-	-	Brown	silt 30%	W.L. BGS 11414 Bailed
0920	1.3	4	15.82	6.58	178.1	0.103	Brown	silt 10%	36.10 8.49 surged
0935	1.3	24	15.84	6.25	154.2	0.053	Brown	silt 5%	42.78 9.80 surged
0950	1.3	44	15.53	5.47	163.9	0.077	Brown <1100	0	44.59 8.60 surged
1005	1.5	66.5	16.54	5.45	166.8	0.066	Brown <1100	0	46.54 5.57 surged
1015	1.5	81.5	16.59	5.65	166.7	0.068	Slight 60.55	0	49.74 6.09
1025	1.5	96.5	16.81	5.66	168.3	0.070	Slight 70.38	0	49.68 5.92
1035	1.5	111.5	16.78	5.60	169.8	0.066	Slight 75.83	0	48.56 6.82
1045	1.5	126.6	16.50	5.56	172.0	0.065	Slight 76.27	0	48.72 8.46

COMMENTS/OBSERVATIONS: pulled pump to top of screen at 1005

Re-development



Monitoring Well Development Log

Page 1 of 1

Date Started (yr/mo/day) 14-March-25 Date Completed (yr/mo/day) 14-March-25

Field Personnel Randy Morgan

Site Name Auriga Site Spartanburg SC

Job # 60280417

Well ID # MW-114

Upgradient Downgradient

Weather Conditions mostly sunny / windy

Air Temperature 48 °F

Total Well Depth (TWD) = 56.47 1/100 ft

Depth to Ground Water (DGW) = 30.43 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 26.04 1/100 ft

1 Casing Volume (OCV) = LWC x .163 = 4.24 gallons

5 Casing Volumes = 21.22 gallons

Method of Well Development gravel pump

Total Volume of Water Removed 110 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
3-25-14 1525	5.0 1.5	5.0	16.20	5.92	2165	0.070	2100 Bm		Surged
1535	1.0	15.0	16.95	5.46	2233	0.061	2100 Bm		Surged
1545	1.0	25.0	16.87	5.41	2325	0.059	586. Bm		Surged
1555	1.0	35.0	16.70	5.33	2403	0.061	140.3 slight		
1605	1.5	50.0	16.76	5.52	2287	0.061	66.08 slight		
1615	1.5	65.0	16.32	5.33	2435	0.060	18.12 clear		
1625	1.5	80.0	16.66	5.24	2483	0.063	6.45 clear		
1635	1.5	95.0	16.77	5.20	2447	0.061	6.67 clear		
1645	1.5	110.0	16.88	5.24	2	0.059	6.48 clear		

COMMENTS/OBSERVATIONS:



Monitoring Well Development Log

Page 27 of 42.11

Date Started (yr/mo/day) 2014-1-March-27 Date Completed (yr/mo/day) 2014-3-27
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # RW-115
 Upgradient Downgradient
 Weather Conditions mostly sunny / 48
 Air Temperature °F

Total Well Depth (TWD) = 88.62 BGS 1/100 ft
 Depth to Ground Water (DGW) = 33.15 BGS 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 55.47 1/100 ft
 1 Casing Volume (OCV) = LWC x 1.63 = 9.04 gallons
 5 Casing Volumes = 45.20 gallons
 Method of Well Development gumstos pump
 Total Volume of Water Removed 127.5 gallons

WLC 40.8 41.90 42.11
Top of water column

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO (i.e. the screen)
3-27-14 1128	1.5	7.5	17.24	8.50	198.1	0.179	54.1 Gray		Surged
1138	1.5	22.5	17.56	7.04	216.7	0.109	101.8 Gray		Surged
1148	1.5	37.5	17.32	6.11	228.1	0.110	93.45 Gray		Surged
1158	1.5	52.5	17.49	6.02	208.3	0.110	88.46 Slight Gray		Surged
1208	1.5	67.5	17.77	6.03	212.1	0.110	25.68 clear		Top of water column
1218	1.5	82.5	17.60	6.18	244.6	0.108	9.27 clear		
1228	1.5	97.5	17.41	6.28	198.2	0.108	7.84 clear		
1238	1.5	112.5	17.89	6.35	201.3	0.107	4.95 clear		
1248	1.5	127.5	18.15	6.29	206.9	0.107	5.85 clear		

COMMENTS/OBSERVATIONS:

Monitoring Well Development Log

Grant Down on
5/14/8 2.44

Date Started (yr/mo/day) 13/Dec/12 Date Completed (yr/mo/day) 13/Dec/12
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # MW-116 Downgradient
 Weather Conditions Clear/Sunny 30's - 40's
 Air Temperature 30's - 40's °F

Total Well Depth (TWD) = 31.45 30.80 BGS 1/100 ft
 Depth to Ground Water (DGW) = 5.02 BGS 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 25.78 1/100 ft
 1 Casing Volume (OCV) = LWC x 163 gallons
 5 Casing Volumes = 815 gallons
 Method of Well Development to the braker / ground pumping
 Total Volume of Water Removed 655 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
<u>Dec 12/13</u>									
<u>0815</u>	<u>baited</u>	<u>10</u>	<u>8.31</u>	<u>4.00</u>	<u>2021</u>	<u>0.110</u>	<u>Brown <100</u>	<u>20% silt</u>	<u>22.83</u>
<u>0908</u>	<u>pumping</u>	<u>13</u>	<u>13.32</u>	<u>6.16</u>	<u>153.2</u>	<u>0.098</u>	<u>Brown <100</u>	<u>10% silt</u>	<u>25.56</u>
<u>0923</u>	<u>.5</u>	<u>20.5</u>	<u>13.69</u>	<u>5.99</u>	<u>156.7</u>	<u>0.093</u>	<u>Brown <100</u>	<u>10% silt</u>	<u>25.85</u>
<u>0938</u>	<u>.5</u>	<u>28.0</u>	<u>13.98</u>	<u>5.96</u>	<u>168.8</u>	<u>0.084</u>	<u>Brown <100</u>	<u>10% silt</u>	<u>26.20</u>
<u>0953</u>	<u>.5</u>	<u>35.5</u>	<u>14.09</u>	<u>6.04</u>	<u>158.1</u>	<u>0.081</u>	<u>Brown <100</u>	<u>0%</u>	<u>26.33</u>
<u>1008</u>	<u>.5</u>	<u>49.0</u>	<u>14.40</u>	<u>6.03</u>	<u>154.5</u>	<u>0.079</u>	<u>Brown <100</u>	<u>0%</u>	<u>28.38</u>
<u>1022</u>	<u>.5</u>	<u>50.5</u>	<u>14.79</u>	<u>6.03</u>	<u>158.8</u>	<u>0.076</u>	<u>Clear 26.29</u>	<u>0%</u>	<u>29.53</u>
<u>1039</u>	<u>.5</u>	<u>58.0</u>	<u>14.90</u>	<u>5.90</u>	<u>161.3</u>	<u>0.075</u>	<u>Clear 18.12</u>	<u>0%</u>	<u>29.81</u>
<u>1052</u>	<u>.5</u>	<u>65.5</u>							

z baited
3.36 Sample
3.67 Sample
2.97 Sample
3.90 Sample

COMMENTS/OBSERVATIONS:

Stick up 1.00
grouted up today



Monitoring Well Development Log

Page 1 of 1

Date Started (yr/mo/day) 13-Dec-12 Date Completed (yr/mo/day) 13-Dec-13
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # MW-118 Upgradient Downgradient
 Weather Conditions Clear/sunny
 Air Temperature 30's 40's °F

Total Well Depth (TWD) = 44.05 43.90 1/100 ft
 Depth to Ground Water (DGW) = 32.00 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 11.90 1/100 ft
 1 Casing Volume (OCV) = LWC x .163 gallons
 5 Casing Volumes = 95.95 gallons
 Method of Well Development fill on bailed / ground stop pump
 Total Volume of Water Removed 43 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
<u>Dec 12, 13</u>									
<u>1445</u>	<u>bailed</u>	<u>9</u>					<u>Brown < 100</u>		<u>40.01 Almost Dry</u>
<u>Dec 13, 13</u>									
<u>1045</u>	<u>pumped</u>	<u>10</u>	<u>14.29</u>	<u>7.31</u>	<u>162.9</u>	<u>0.145</u>	<u>Brown < 100</u>	<u>10% silt</u>	<u>40.50</u>
<u>1055</u>	<u>pumped</u>	<u>15</u>	<u>15.65</u>	<u>7.11</u>	<u>193.3</u>	<u>0.136</u>	<u>Brown < 100</u>	<u>5% silt</u>	<u>42.09</u>
<u>1105</u>	<u>pumped</u>	<u>19</u>	<u>15.87</u>	<u>7.25</u>	<u>164.8</u>	<u>0.132</u>	<u>Brown < 100</u>	<u>5% silt</u>	<u>42.18</u>
<u>1120</u>	<u>40.5</u>	<u>23</u>	<u>15.80</u>	<u>6.82</u>	<u>171.3</u>	<u>0.114</u>	<u>Brown < 100</u>	<u>0% silt</u>	<u>42.20</u>
<u>1135</u>	<u>1.5</u>	<u>27</u>	<u>16.05</u>	<u>6.55</u>	<u>176.4</u>	<u>0.103</u>	<u>Brown 350.2</u>	<u>0%</u>	<u>42.16</u>
<u>1200</u>	<u>1.5</u>	<u>31</u>	<u>15.53</u>	<u>6.52</u>	<u>174.3</u>	<u>0.101</u>	<u>Brown 294.5</u>	<u>0%</u>	<u>42.01</u>
<u>1215</u>	<u>1.5</u>	<u>35</u>	<u>16.21</u>	<u>6.46</u>	<u>169.6</u>	<u>0.093</u>	<u>Brown 306</u>	<u>0%</u>	<u>42.39</u>
<u>1230</u>	<u>1.5</u>	<u>39</u>	<u>15.86</u>	<u>6.40</u>	<u>171.4</u>	<u>0.095</u>	<u>Slight 116.5</u>	<u>0%</u>	<u>42.25</u>
<u>1245</u>	<u>1.5</u>	<u>43</u>	<u>16.30</u>	<u>6.21</u>	<u>178.6</u>	<u>0.092</u>	<u>Slight 99.9</u>	<u>0%</u>	<u>42.53</u>

COMMENTS/OBSERVATIONS: pumped 1.0 gpm goes dry turn pump off allow recovery repeat this every 10 min. to 20 min

Monitoring Well Development Log

Date Started (yr/mo/day) 2014-3-27 Date Completed (yr/mo/day) 2014-3-28
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # ~~AW-119~~ AW-119
 _____ Upgradient _____ Downgradient
 Weather Conditions Clear/Sunny
 Air Temperature _____ °F

Total Well Depth (TWD) = 90.12 TOC 1/100 ft
 Depth to Ground Water (DGW) = 25.02 TOC 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 65.10 1/100 ft
 1 Casing Volume (OCV) = LWC x .163 = 10.61 gallons
 5 Casing Volumes = 53.05 gallons
 Method of Well Development 56" Jet/lon bailer
 Total Volume of Water Removed 22 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
3-27-14									
1323	bailed	5	17.88	9.69	165.8	0.231	1100 Bm		bailed
1342	"	10	17.12	9.31	161.5	0.233	1100 Bm		bailed
1352	"	13	16.13	8.74	189.9	0.237	1100 Bm		bailed
3-28-14									
0737	"	13.25	16.67	7.10	352.1	0.150	583 Lt/bm		bailed
0755	"	19.0	15.80	7.50	348.5	0.176	7100 Bm		bailed Dry
1552	"	22.0	16.12	8.02	86.5	0.177	7100 Bm		bailed Dry

WL
 88.00
 79.88
 88.52
 63.80

COMMENTS/OBSERVATIONS: Slow Recovery Rate

Time	WL	Time	WC
3:27:14	88.53	3:27:14	84.50
1354	87.98	0730	69.50
1359	87.65	1540	77.97
1404	87.32		
1409			

Stick up 1.72
tapped off ground today



Monitoring Well Development Log

Page 1 of 1

Date Started (yr/mo/day) 13/Dec/12 Date Completed (yr/mo/day) 13/Dec/13
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # MW-120
 Upgradient Clear Sunny 40's Downgradient
 Weather Conditions Clear Sunny 40's
 Air Temperature _____ °F

Total Well Depth (TWD) = 54.90 54.92 1/100 ft
 Depth to Ground Water (DGW) = 32.18 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 22.54 1/100 ft
 1 Casing Volume (OCV) = LWC x 163 = 3.67 gallons
 5 Casing Volumes = 18.35 gallons
 Method of Well Development 5 ton bailer / ground for pump
 Total Volume of Water Removed 40.75 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
<u>Dec 13/13</u>									
<u>14/18</u>	<u>bailed</u>	<u>8</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>Blown <100</u>	<u>20% Silt</u>	<u>49.95 Almost 0%</u>
<u>1530</u>	<u>pump .40</u>	<u>8.5</u>	<u>15.71</u>	<u>6.40</u>	<u>1713</u>	<u>0.117</u>	<u>Brown <100</u>	<u>10% Silt</u>	<u>47.63 3.78</u>
<u>1545</u>	<u>.25</u>	<u>12.25</u>	<u>17.02</u>	<u>6.44</u>	<u>1700</u>	<u>0.104</u>	<u>Brown <100</u>	<u>5% Silt</u>	<u>49.51 6.09</u>
<u>1600</u>	<u>.25</u>	<u>16.0</u>	<u>17.60</u>	<u>6.18</u>	<u>1649</u>	<u>0.104</u>	<u>Brown <100</u>	<u>0% Silt</u>	<u>52.20 3.23</u>
<u>1645</u>	<u>.25</u>	<u>19.75</u>	<u>18.02</u>	<u>6.22</u>	<u>1678</u>	<u>0.092</u>	<u>Slight 54.33</u>	<u>0%</u>	<u>46.27 6.59</u>
<u>1700</u>	<u>.40</u>	<u>25.75</u>	<u>17.35</u>	<u>5.82</u>	<u>1803</u>	<u>0.085</u>	<u>Slight 103.2</u>	<u>0%</u>	<u>52.10 6.30</u>
<u>12-13-13</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>None 56.0</u>	<u>0%</u>	<u>—</u>
<u>0745</u>	<u>1.0</u>	<u>30.75</u>	<u>15.53</u>	<u>6.18</u>	<u>1779</u>	<u>0.084</u>	<u>None 361.0</u>	<u>0%</u>	<u>53.04 7.32</u>
<u>0815</u>	<u>1.0</u>	<u>35.75</u>	<u>16.17</u>	<u>6.12</u>	<u>1750</u>	<u>0.084</u>	<u>" 231.2</u>	<u>0%</u>	<u>53.91 6.87</u>
<u>0845</u>	<u>1.0</u>	<u>40.75</u>	<u>15.90</u>	<u>6.33</u>	<u>1697</u>	<u>0.088</u>	<u>" 251.9</u>	<u>0%</u>	<u>53.04 4.86</u>

bailed
surge
surge
dry

dry
dry
dry

COMMENTS/OBSERVATIONS:



Monitoring Well Development Log

Page _____ of _____

Date Started (yr/mo/day) 2014-3-29 Date Completed (yr/mo/day) 2014-3-29

Field Personnel Randy Morgan

Site Name Auriga Site Spartanburg SC

Job # 60280417

Well ID # RW-121 Upgradient Downgradient

Weather Conditions clear/sunny

Air Temperature 46-58 °F

Total Well Depth (TWD) = 79.60 TDC 700 1/100 ft

Depth to Ground Water (DGW) = 33.01 TDC 700 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 46.59 1/100 ft

1 Casing Volume (OCV) = LWC x .163 = 7.59 gallons

5 Casing Volumes = 37.97 gallons

Method of Well Development ground pos pump

Total Volume of Water Removed 30.0 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
3-27-14									
1548	1.5	7.5	20.05	9.68	1381	0.129	456.4 Bm		Surged on bottom
1705	.25 - .50	12.5	19.16	8.03	1275	0.132	7100 Bm		Surged
3-28-14									
0818	1.0	17.5	18.06	7.79	2965	0.136	311.4 Bm		Surged
0825	1.0	21.0	19.04	7.85	2842	0.133	2306 Bm		Surged Dry
1035	.5	26.0	18.24	7.45	2815	0.130	148.2 Lt Bm		Surged
1048	.5	30.0	18.71	7.64	2507	0.134	129.7 Lt Bm		Surged Dry

0.19ppm
64.01

COMMENTS/OBSERVATIONS: 1553 dry at 7.5 gals

3-27-14 1605 WL 62.78

3-27-14 1628 WL 56.30

3-28-14 1705 WL 47.25

3-28-14 1814 WL 32.96

3-28-14 1823 WL 40.46

Monitoring Well Development Log

Date Started (yr/mo/day) 13-Dec-13 Date Completed (yr/mo/day) 13-Dec-13

Field Personnel Randy Morgan

Site Name Auriga Site Spartanburg SC

Job # 60280417

Well ID # MW-122 Upgradient Downgradient

Weather Conditions mostly Sunny 40's

Air Temperature _____ °F

Total Well Depth (TWD) = 57.42 SP-10 BGS 1/100 ft

Depth to Ground Water (DGW) = 20.48 BGS 1/100 ft

Length of Water Column (LWC) = TWD - DGW = _____ 1/100 ft

1 Casing Volume (OCV) = LWC x .163 = _____ gallons

5 Casing Volumes = _____ gallons

Method of Well Development tether basket / grinder pump

Total Volume of Water Removed 208 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
<u>12-13-13</u>									
<u>1430</u>	<u>Bailed</u>	<u>2</u>							<u>bailed</u>
<u>1452</u>	<u>pumping 3.0</u>	<u>5</u>	<u>18.50</u>	<u>6.12</u>	<u>1085</u>	<u>0.101</u>	<u>Brown 1100</u>	<u>5% bilt</u>	<u>32.12</u>
<u>1502</u>	<u>3.0</u>	<u>38</u>	<u>19.52</u>	<u>6.23</u>	<u>1030</u>	<u>0.097</u>	<u>Bin 2/100</u>	<u>0%</u>	<u>41.55</u>
<u>1512</u>	<u>3.0</u>	<u>68</u>	<u>19.48</u>	<u>5.99</u>	<u>1245</u>	<u>0.097</u>	<u>Bin 4/100</u>	<u>0%</u>	<u>47.12</u>
<u>1522</u>	<u>3.0</u>	<u>98</u>	<u>19.22</u>	<u>5.91</u>	<u>1321</u>	<u>0.080</u>	<u>Bin 4/100</u>	<u>0%</u>	<u>56.01</u>
<u>1545</u>	<u>3.0</u>	<u>128</u>	<u>18.33</u>	<u>5.90</u>	<u>148.2</u>	<u>0.070</u>	<u>Bin 10/16</u>	<u>0%</u>	<u>31.42</u>
<u>1555</u>	<u>2.0</u>	<u>148</u>	<u>19.14</u>	<u>5.87</u>	<u>150.5</u>	<u>0.069</u>	<u>Clear 80.32</u>	<u>0%</u>	<u>31.98</u>
<u>1605</u>	<u>2.0</u>	<u>168</u>	<u>18.93</u>	<u>5.74</u>	<u>155.2</u>	<u>0.068</u>	<u>Clear 32.49</u>	<u>0%</u>	<u>32.38</u>
<u>1615</u>	<u>2.0</u>	<u>188</u>	<u>18.25</u>	<u>5.77</u>	<u>158.6</u>	<u>0.069</u>	<u>Clear 53.64</u>	<u>0%</u>	<u>33.30</u>
<u>1625</u>	<u>2.0</u>	<u>208</u>	<u>18.41</u>	<u>5.77</u>	<u>159.4</u>	<u>0.068</u>	<u>Clear 28.71</u>	<u>0%</u>	<u>34.78</u>

COMMENTS/OBSERVATIONS: 1525 empty purge water



Monitoring Well Development Log

Date Started (yr/mo/day) 14-4-01 Date Completed (yr/mo/day) 14-04-01
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # AW-123
 Upgradient Downgradient
 Weather Conditions SUNNY
 Air Temperature 81 °F

Total Well Depth (TWD) = 137.03 1/100 ft
 Depth to Ground Water (DGW) = 25.39 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 111.64 1/100 ft
 1 Casing Volume (OCV) = LWC x 163 gallons
 5 Casing Volumes = 9098 gallons
 Method of Well Development grindstones pump
 Total Volume of Water Removed 150 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks	DO
1409 1409	2.0	10	20.89	6.92	140.3	0.157	33.42 clear		Surged	WLC 63.10
1419	2.0	30	19.95	7.51	103.3	0.154	8.77 clear		Surged	70.41
1429	2.0	50	19.43	7.49	108.5	0.153	191.9 slight		Surged	74.52
1439	2.0	70	20.46	7.79	84.6	0.158	110.7 slight		Surged	77.35
1449	2.0	90	19.11	7.70	100.5	0.158	144.0 slight		Surged	
1459	2.0	110	19.14	7.70	102.4	0.160	8.96 clear		Surged	
1509	2.0	130	19.23	7.84	99.1	0.160	2.70 clear			
1579	2.0	150	19.51	7.90	88.9	0.162	3.07 clear			79.52

COMMENTS/OBSERVATIONS:

Monitoring Well Development Log

Date Started (yr/mo/day) 13/Dec/16 Date Completed (yr/mo/day) 13/Dec-16
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # MW-124
 Upgradient Downgradient
 Weather Conditions Clear/Sunny 30's-50's
 Air Temperature _____ °F

Total Well Depth (TWD) = 59.53 BGS 1/100 ft
 Depth to Ground Water (DGW) = 25.03 BGS 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 33.17 1/100 ft
 1 Casing Volume (OCV) = LWC x 1.63 5.40 gallons
 5 Casing Volumes = 27.03 gallons
 Method of Well Development Jetten Baker / granular pump
 Total Volume of Water Removed 97 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
<u>0753</u>	<u>barked</u>	<u>2</u>	<u>X</u>	<u>6.49</u>	<u>169.1</u>	<u>0.131</u>	<u>Bm <1100</u>	<u>1.0% Silt</u>	<u>57.08</u> <u>1.96</u>
<u>0805</u>	<u>pumped 2.0</u>	<u>7</u>	<u>17.79</u>	<u>6.31</u>	<u>182.2</u>	<u>0.107</u>	<u>Bm <1100</u>	<u>0.5% Silt</u>	<u>48.65</u> <u>3.70</u>
<u>0815</u>	<u>pumped 1.0</u>	<u>17</u>	<u>18.45</u>	<u>6.06</u>	<u>185.6</u>	<u>0.093</u>	<u>Bm <1100</u>	<u>0% Silt</u>	<u>48.01</u> <u>3.73</u>
<u>0825</u>	<u>1.0</u>	<u>27</u>	<u>18.63</u>	<u>5.99</u>	<u>188.9</u>	<u>0.089</u>	<u>Bm 681.8</u>	<u>0% Silt</u>	<u>48.53</u> <u>3.97</u>
<u>0835</u>	<u>1.0</u>	<u>37</u>	<u>18.88</u>	<u>5.91</u>	<u>191.1</u>	<u>0.086</u>	<u>Bm <1100</u>	<u>0% Silt</u>	<u>48.96</u> <u>4.33</u>
<u>0845</u>	<u>1.0</u>	<u>47</u>	<u>18.91</u>	<u>5.92</u>	<u>190.0</u>	<u>0.081</u>	<u>Bm 311.5</u>	<u>0%</u>	<u>49.53</u> <u>4.11</u>
<u>0855</u>	<u>1.0</u>	<u>57</u>	<u>19.58</u>	<u>5.80</u>	<u>194.1</u>	<u>0.077</u>	<u>Clear 222.6</u>	<u>0%</u>	<u>49.91</u> <u>5.17</u>
<u>0905</u>	<u>1.0</u>	<u>67</u>	<u>19.28</u>	<u>5.69</u>	<u>195.7</u>	<u>0.073</u>	<u>Slight 475.1</u>	<u>0%</u>	<u>50.62</u> <u>5.22</u>
<u>0915</u>	<u>1.0</u>	<u>77</u>	<u>19.39</u>	<u>5.63</u>	<u>196.7</u>	<u>0.073</u>	<u>Clear 6.53</u>	<u>0%</u>	<u>49.83</u> <u>5.13</u>
<u>0925</u>	<u>1.0</u>	<u>87</u>	<u>19.47</u>	<u>5.62</u>	<u>198.4</u>	<u>0.071</u>	<u>Clear 5.38</u>	<u>0%</u>	<u>49.29</u> <u>4.87</u>
<u>0935</u>	<u>1.0</u>	<u>97</u>	<u>19.56</u>	<u>5.62</u>	<u>198.4</u>	<u>0.071</u>	<u>Clear 5.38</u>	<u>0%</u>	<u>49.29</u> <u>4.87</u>

COMMENTS/OBSERVATIONS: started out 2.00 gpm wk dropped turned down to 1.0 gpm

Monitoring Well Development Log

Date Started (yr/mo/day) 13-Dec-16 Date Completed (yr/mo/day) 13-Dec-16
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # MW-126
 ___ Upgradient ___ Downgradient
 Weather Conditions Clear/Sunny
 Air Temperature 40's - 50's °F

Total Well Depth (TWD) = 49.38 BGS 1/100 ft
 Depth to Ground Water (DGW) = 21.40 BGS 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = _____ 1/100 ft
 1 Casing Volume (OCV) = LWC x .163 gallons
 5 Casing Volumes = _____ gallons
 Method of Well Development flexon brailer / grinders pump
 Total Volume of Water Removed 175.5 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
<u>Dec 16, 2013</u>									
<u>1245</u>	<u>brailer</u>	<u>2</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>Brn < 100</u>	<u>18% Silt</u>	<u>WT 5.80</u> <i>brailer</i>
<u>1320</u>	<u>pumped</u>	<u>9</u>	<u>17.53</u>	<u>7.25</u>	<u>136.8</u>	<u>0.170</u>	<u>Brn < 100</u>	<u>1.8% Silt</u>	<u>33.61</u> <i>surged</i>
<u>1340</u>	<u>1.50</u>	<u>39</u>	<u>18.23</u>	<u>6.15</u>	<u>159.9</u>	<u>0.123</u>	<u>Brn < 100</u>	<u>0%</u>	<u>44.83</u> <i>surged</i>
<u>1400</u>	<u>1.50</u>	<u>69</u>	<u>19.48</u>	<u>5.44</u>	<u>166.9</u>	<u>0.127</u>	<u>Brn < 100</u>	<u>0%</u>	<u>46.10</u> <i>surged</i>
<u>1425</u>	<u>1.50</u>	<u>91.5</u>	<u>18.16</u>	<u>5.47</u>	<u>169.8</u>	<u>0.102</u>	<u>Brn 6984</u>	<u>0%</u>	<u>41.37</u> <i>surged</i>
<u>1435</u>	<u>1.40</u>	<u>105.5</u>	<u>18.27</u>	<u>5.29</u>	<u>176.5</u>	<u>0.102</u>	<u>slight</u>	<u>5966</u>	<u>41.43</u> <i>surged</i>
<u>1445</u>	<u>1.40</u>	<u>119.5</u>	<u>18.29</u>	<u>5.42</u>	<u>173.8</u>	<u>0.105</u>	<u>Brn 123.2</u>	<u>0%</u>	<u>41.23</u> <i>surged</i>
<u>1455</u>	<u>1.40</u>	<u>133.5</u>	<u>18.33</u>	<u>5.38</u>	<u>174.6</u>	<u>0.105</u>	<u>slight</u>	<u>5183</u>	<u>41.18</u> <i>surged</i>
<u>1505</u>	<u>1.40</u>	<u>147.5</u>	<u>18.39</u>	<u>5.41</u>	<u>173.5</u>	<u>0.106</u>	<u>slight</u>	<u>84.50</u>	<u>41.25</u> <i>surged</i>
<u>1515</u>	<u>1.40</u>	<u>161.5</u>	<u>18.08</u>	<u>5.35</u>	<u>183.7</u>	<u>0.095</u>	<u>Clear</u>	<u>12.72</u>	<u>41.41</u> <i>surged</i>
<u>1525</u>	<u>1.40</u>	<u>175.5</u>	<u>18.15</u>	<u>5.35</u>	<u>187.3</u>	<u>0.094</u>	<u>Clear</u>	<u>9.98</u>	<u>41.29</u> <i>surged</i>

COMMENTS/OBSERVATIONS: 1405 empty development water

Monitoring Well Development Log

Page _____ of _____

Date Started (yr/mo/day) 2014-4-01 Date Completed (yr/mo/day) _____
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # RW-127
 _____ Upgradient _____ Downgradient _____
 Weather Conditions clear / sunny
 Air Temperature _____ °F

Total Well Depth (TWD) = 92.43 1/100 ft
 Depth to Ground Water (DGW) = 22.69 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 64.74 1/100 ft
 1 Casing Volume (OCV) = LWC x 1.63 = 10.53 gallons
 5 Casing Volumes = 52.76 gallons
 Method of Well Development granules pump
 Total Volume of Water Removed 170 gallons

WL
 435
 5458

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks
4-1-2014									
1617	2.0	10	19.55	8.12	197.6	0.183	930.1 Bm		Sample in screen
1627	2.0	30	19.31	7.67	126.3	0.183	505.3 Bm		Sample
1637	2.0	50	18.90	7.60	85.4	0.181	62.32 Slight		Sample
1647	2.0	70	18.81	7.33	46.2	0.179	17.79 Clear		Sample
1657	2.0	90	19.46	7.41	39.7	0.181	88.78 Slight		Sample
1707	2.0	110	19.04	7.47	34.6	0.179	3.94 Clear		
1717	2.0	130	18.66	7.17	20.7	0.178	7.00 Clear		
1727	2.0	150	18.60	7.10	11.8	0.179	3.26 Clear		
1737	2.0	170	18.63	7.75	6.8	0.179	3.00 Clear		

COMMENTS/OBSERVATIONS: _____

Monitoring Well Development Log

Date Started (yr/mo/day) 13-Dec-17 Date Completed (yr/mo/day) 15-Dec-17
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # MW-128
 Upgradient Downgradient
 Weather Conditions Clear/Sunny
 Air Temperature 50.5 °F

Total Well Depth (TWD) = 60.20 60.15 1/100 ft
 Depth to Ground Water (DGW) = 35.95 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 24.20 1/100 ft
 1 Casing Volume (OCV) = LWC x 1.63 = 3.94 gallons
 5 Casing Volumes = 19.73 gallons
 Method of Well Development Jetten boiler / granites pump
 Total Volume of Water Removed 69 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
<u>Dec 17 2017</u>									
<u>1337</u>	<u>Bailed</u>	<u>3</u>	<u>19.42</u>	<u>6.67</u>	<u>1747</u>	<u>0.131</u>	<u>Brown <1100</u>	<u>2% silt</u>	<u>W/L</u>
<u>1358</u>	<u>pump .60</u>	<u>5</u>	<u>19.50</u>	<u>6.24</u>	<u>1856</u>	<u>0.091</u>	<u>Brown <1100</u>	<u>1.0% silt</u>	<u>46.26</u>
<u>1425</u>	<u>.60</u>	<u>11</u>	<u>20.04</u>	<u>4.77</u>	<u>2314</u>	<u>0.048</u>	<u>Brn <1100</u>	<u>1.0% silt</u>	<u>51.23</u>
<u>1505</u>	<u>.60</u>	<u>23</u>	<u>19.36</u>	<u>4.94</u>	<u>2342</u>	<u>0.045</u>	<u>Brn <1100</u>	<u>1.0% silt</u>	<u>52.88</u>
<u>1530</u>	<u>.60</u>	<u>30</u>	<u>19.38</u>	<u>4.89</u>	<u>2106</u>	<u>0.040</u>	<u>Slight 1075</u>	<u>0%</u>	<u>51.53</u>
<u>1545</u>	<u>.60</u>	<u>39</u>	<u>18.34</u>	<u>4.83</u>	<u>2236</u>	<u>0.040</u>	<u>Slight 1077</u>	<u>0%</u>	<u>52.91</u>
<u>1600</u>	<u>.60</u>	<u>49</u>	<u>18.67</u>	<u>4.94</u>	<u>2082</u>	<u>0.038</u>	<u>Clear 1268</u>	<u>0%</u>	<u>52.80</u>
<u>1615</u>	<u>.60</u>	<u>59</u>	<u>19.51</u>	<u>5.01</u>	<u>2447</u>	<u>0.037</u>	<u>Clear 1264</u>	<u>0%</u>	<u>53.48</u>
<u>1630</u>	<u>.60</u>	<u>69</u>							<u>53.81</u>
									<u>7.25</u>
									<u>5.72</u>
									<u>5.70</u>
									<u>2.12</u>
									<u>8.04</u>

COMMENTS/OBSERVATIONS: 1410 turn off pump to allow well to recharge
1445 turn off pump

Monitoring Well Development Log

Date Started (yr/mo/day) 2014-3-31 Date Completed (yr/mo/day) 2014-3-31

Field Personnel Randy Morgan

Site Name Auriga Site Spartanburg SC

Job # 60280417

Well ID # RW-129

Upgradient Clear Downgradient Sunny

Weather Conditions Clear

Air Temperature _____ °F

Total Well Depth (TWD) = 150.03 1/100 ft

Depth to Ground Water (DGW) = 40.90 1/100 ft

Length of Water Column (LWC) = TWD - DGW = _____ 1/100 ft

1 Casing Volume (OCV) = LWC x .163 = _____ gallons

5 Casing Volumes = _____ gallons

Method of Well Development granular pump

Total Volume of Water Removed 75 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
<u>3/31/14</u>									
<u>1110</u>	<u>1.5-.75</u>	<u>7.5</u>	<u>19.57</u>	<u>6.65</u>	<u>105.2</u>	<u>0.391</u>	<u>71100 Grey</u>		<u>Surged</u>
<u>1120</u>	<u>.75</u>	<u>15.0</u>	<u>19.95</u>	<u>6.38</u>	<u>82.0</u>	<u>0.385</u>	<u>71100 Grey</u>		<u>Surged</u>
<u>1130</u>	<u>.75</u>	<u>22.5</u>	<u>20.44</u>	<u>6.50</u>	<u>58.9</u>	<u>0.426</u>	<u>6404 Grey</u>		<u>Surged</u>
<u>1140</u>	<u>.75</u>	<u>30.0</u>	<u>20.20</u>	<u>6.58</u>	<u>48.8</u>	<u>0.457</u>	<u>5571 Grey</u>		<u>Surged</u>
<u>1150</u>	<u>.75</u>	<u>37.5</u>	<u>20.44</u>	<u>6.51</u>	<u>44.4</u>	<u>0.472</u>	<u>2865 Grey</u>		<u>Surged</u>
<u>1200</u>	<u>.75</u>	<u>45.0</u>	<u>20.94</u>	<u>6.60</u>	<u>31.7</u>	<u>0.476</u>	<u>1385 Grey</u>		<u>Surged</u>
<u>1210</u>	<u>.75</u>	<u>52.5</u>	<u>21.23</u>	<u>6.75</u>	<u>23.9</u>	<u>0.487</u>	<u>1093 Grey</u>		<u>Surged</u>
<u>1220</u>	<u>.75</u>	<u>60.0</u>	<u>21.68</u>	<u>6.90</u>	<u>18.0</u>	<u>0.482</u>	<u>344 Clear</u>		<u>Surged</u>
<u>1230</u>	<u>.75</u>	<u>67.5</u>	<u>21.50</u>	<u>6.81</u>	<u>21.0</u>	<u>0.478</u>	<u>260 Clear</u>		<u>Surged</u>
<u>1240</u>	<u>.75</u>	<u>75.0</u>	<u>21.85</u>	<u>6.84</u>	<u>17.3</u>	<u>0.470</u>	<u>350 Clear</u>		<u>Surged</u>

WLC
9253
11333
13124
13980
17518

COMMENTS/OBSERVATIONS:

Monitoring Well Development Log

Date Started (yr/mo/day) 13-Dec-18 Date Completed (yr/mo/day) 13-Dec-18
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # MW-130
 Upgradient Clear Sunny Downgradient 40's - 50's
 Weather Conditions Clear Sunny
 Air Temperature _____ °F

Total Well Depth (TWD) = 60.33 TOC TOC 1/100 ft
 Depth to Ground Water (DGW) = 53.42 TOC TOC 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = _____ 1/100 ft
 1 Casing Volume (OCV) = LWC x .163 gallons
 5 Casing Volumes = _____ gallons
 Method of Well Development 7-10 min bailer / ground to pump
 Total Volume of Water Removed 6.5 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
<u>Dec 18/2018</u>									
<u>1100-1115</u>	<u>bailed</u>	<u>5</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>Brn <1100</u>	<u>2.0%</u>	<u>54.68</u> <u>bailed</u>
<u>1135</u>	<u>bailed</u>	<u>10</u>	<u>18.33</u>	<u>6.00</u>	<u>202.1</u>	<u>0.107</u>	<u>Brn <1100</u>	<u>1.0%</u>	<u>54.68</u> <u>bailed</u>
<u>1153</u>	<u>bailed</u>	<u>15</u>	<u>18.58</u>	<u>5.75</u>	<u>204.4</u>	<u>0.089</u>	<u>Brn <1100</u>	<u>1%</u>	<u>54.68</u> <u>bailed</u>
<u>1310</u>	<u>bailed</u>	<u>20</u>	<u>17.54</u>	<u>5.71</u>	<u>202.8</u>	<u>0.083</u>	<u>Brn <1100</u>	<u>0%</u>	<u>54.50</u> <u>bailed</u>
<u>1337</u>	<u>pump .5</u>	<u>30</u>	<u>19.94</u>	<u>4.97</u>	<u>219.6</u>	<u>0.060</u>	<u>Brn 957.9</u>	<u>0%</u>	<u>57.20</u> <u>surge</u>
<u>1400</u>	<u>pump .5</u>	<u>40</u>	<u>20.74</u>	<u>5.53</u>	<u>205.1</u>	<u>0.060</u>	<u>Brn 743.8</u>	<u>0%</u>	<u>57.03</u> <u>surge</u>
<u>1415</u>	<u>pump .5</u>	<u>45</u>	<u>20.27</u>	<u>5.37</u>	<u>207.8</u>	<u>0.052</u>	<u>Brn 232.9</u>	<u>0%</u>	<u>57.05</u> <u>surge</u>
<u>1425</u>	<u>.5</u>	<u>50</u>	<u>20.58</u>	<u>5.10</u>	<u>213.8</u>	<u>0.049</u>	<u>4 Brn 156.9</u>	<u>0%</u>	<u>57.08</u> <u>surge</u>
<u>1435</u>	<u>.5</u>	<u>55</u>	<u>20.17</u>	<u>5.20</u>	<u>208.7</u>	<u>0.051</u>	<u>Clear 2302</u>	<u>0%</u>	<u>57.64</u> <u>surge</u>
<u>1445</u>	<u>.5</u>	<u>60</u>	<u>20.15</u>	<u>5.26</u>	<u>208.4</u>	<u>0.050</u>	<u>Clear 20.09</u>	<u>0%</u>	<u>57.93</u> <u>surge</u>
<u>1455</u>	<u>.5</u>	<u>65</u>	<u>20.35</u>	<u>5.10</u>	<u>211.3</u>	<u>0.049</u>	<u>Clear 10.91</u>	<u>0%</u>	<u>58.01</u> <u>surge</u>

COMMENTS/OBSERVATIONS: when pumping would surge well pump 10 gal out turn off pump allow recovery then repeat

AECOM
grab Joe sample
Residual Pump RW-131

Monitoring Well Development Log

Page _____ of _____

Date Started (yr/mo/day) 2014-3-31 Date Completed (yr/mo/day) 2014-3-31
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # RW-131
 _____ Upgradient _____ Downgradient
 Weather Conditions Clear/sunny
 Air Temperature _____ °F

Total Well Depth (TWD) = 139.80 BGS 1/100 ft
 Depth to Ground Water (DGW) = 49.55 BGS 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 90.25 1/100 ft
 1 Casing Volume (OCV) = LWC x 1.63 = 147.11 gallons
 5 Casing Volumes = 735.55 gallons
 Method of Well Development gravitational pump
 Total Volume of Water Removed _____ gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
<u>3-31-14</u>									
<u>0742</u>	<u>1.0</u>	<u>5.0</u>	<u>17.94</u>	<u>6.46</u>	<u>-66.9</u>	<u>0.690</u>	<u>458.1</u> <u>brn</u>		<u>Surged</u>
<u>0752</u>	<u>.75</u>	<u>12.5</u>	<u>18.83</u>	<u>6.78</u>	<u>-92.7</u>	<u>0.686</u>	<u>140.3</u> <u>slight</u>		<u>Surged</u>
<u>0802</u>	<u>.50</u>	<u>15.0</u>	<u>20.50</u>	<u>6.81</u>	<u>-86.2</u>	<u>0.664</u>	<u>155.6</u> <u>slight</u>		<u>Surged</u>
<u>0812</u>	<u>.75</u>	<u>19.0</u>	<u>21.07</u>	<u>6.81</u>	<u>-82.3</u>	<u>0.687</u>	<u>496.6</u> <u>slight</u>		<u>Surged</u>
<u>0850</u>	<u>.75</u>	<u>1.0</u>	<u>18.03</u>	<u>6.50</u>	<u>-41.9</u>	<u>0.654</u>	<u>195.8</u> <u>brn</u>		<u>Surged Dry</u>

WL
82.6
104.9
132.5
140.3

COMMENTS/OBSERVATIONS: 0815 turn pump off

3-31-14 WL 4-1-14 WL
1704 135.30 0710 133.90

Monitoring Well Development Log

Date Started (yrr/mo/day) 13-Dec-19 Date Completed (yrr/mo/day) 13-Dec-19
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # MW-132
 Upgradient Downgradient
 Weather Conditions Clear/sunny
 Air Temperature 40-50.5 °F

Total Well Depth (TWD) = 65.23 65.20 1/100 ft
 Depth to Ground Water (DGW) = 44.30 BCS 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 20.90 1/100 ft
 1 Casing Volume (OCV) = LWC x 163 = 3.40 gallons
 5 Casing Volumes = 7.03 gallons
 Method of Well Development Tetrahedral Reciprocating pump
 Total Volume of Water Removed 92.5 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks
<u>11:30</u>	<u>bailed</u>	<u>5</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>Brn <1100</u>	<u>2%</u>	<u>WZ</u>
<u>12:55</u>	<u>pumping</u>	<u>7.5</u>	<u>19.10</u>	<u>5.95</u>	<u>201.7</u>	<u>0.084</u>	<u>Brn <1100</u>	<u>1.0%</u>	<u>49.58 3.39</u>
<u>13:15</u>	<u>7.0</u>	<u>27.5</u>	<u>19.01</u>	<u>5.43</u>	<u>202.6</u>	<u>0.077</u>	<u>Brn <1100</u>	<u>1.0%</u>	<u>57.90 4.06</u>
<u>13:45</u>	<u>1.0</u>	<u>47.5</u>	<u>18.92</u>	<u>5.25</u>	<u>199.5</u>	<u>0.071</u>	<u>Brn <1100</u>	<u>1.0%</u>	<u>57.38 3.65</u>
<u>14:00</u>	<u>1.0</u>	<u>62.5</u>	<u>19.09</u>	<u>5.24</u>	<u>199.6</u>	<u>0.069</u>	<u>Brn 618.6</u>	<u>0%</u>	<u>57.95 2.95</u>
<u>14:10</u>	<u>1.0</u>	<u>72.5</u>	<u>18.80</u>	<u>5.03</u>	<u>205.4</u>	<u>0.063</u>	<u>Slight 6430</u>	<u>0%</u>	<u>57.19 3.07</u>
<u>14:20</u>	<u>1.0</u>	<u>82.5</u>	<u>18.89</u>	<u>5.19</u>	<u>200.2</u>	<u>0.065</u>	<u>Clear 6.9%</u>	<u>0%</u>	<u>56.98 3.74</u>
<u>14:30</u>	<u>1.0</u>	<u>92.5</u>	<u>19.10</u>	<u>5.21</u>	<u>199.9</u>	<u>0.064</u>	<u>Clear 4.75</u>	<u>0%</u>	<u>57.17 3.18</u>
<u>4:40</u>									

COMMENTS/OBSERVATIONS: 1325-1335 stopped to allow recharge

Monitoring Well Development Log

Date Started (yr/mo/day) 2014-7-28 Date Completed (yr/mo/day) 2014-4-1
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # ~~133~~ RW-133
 Upgradient Downgradient
 Weather Conditions overcast
 Air Temperature 58 °F

Total Well Depth (TWD) = 116.60 BGS 1/100 ft
 Depth to Ground Water (DGW) = 39.10 BGS 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 77.50 1/100 ft
 1 Casing Volume (OCV) = LWC x 163 = 12.63 gallons
 5 Casing Volumes = 63.16 gallons
 Method of Well Development gravel pump
 Total Volume of Water Removed 46.5 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
3-28-14 1318	1.5	7.5	21.37	6.34	0.7	0.246	8361 b/m		Surged
1328	1.0	17.5	22.81	6.32	-12.6	0.245	171.2 b/m		
1355	1.5	21.5	20.10	5.99	483	0.220	331.8 b/m		Dry
3-31-14	—	—	—	—	—	—	—		
0955	1.0	26.5	17.78	6.37	133.3	0.208	332.7 b/m		Surged
1005	1.0	36.5	19.79	6.47	123.0	0.226	427.5 b/m		Surged Dry
4-1-14	—	—	—	—	—	—	—		
0758	1.5	41.5	16.83	6.59	190.4	0.231	170.7 b/m		Surged
0808	1.5	46.5	18.26	6.68	165.2	0.234	212.2 b/m		Surged Dry

COMMENTS/OBSERVATIONS: 1330 turn pump off to allow recharge

1355 turn pump off to allow recharge

Recovery rate
 Time 1435 WL 115.79
1440 WL 115.56
1445 WL 115.47

4-1-14 WL
0714 WL 60.98
98.52

Monitoring Well Development Log

Date Started (yr/mo/day) 13-Dec-23 Date Completed (yr/mo/day) 13-Dec-23
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # MW-134
 Upgradient Downgradient
 Weather Conditions rain
 Air Temperature 50.5 °F

Total Well Depth (TWD) = 75.07 74.63 70 1/100 ft
 Depth to Ground Water (DGW) = 53.87 70 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 20.76 1/100 ft
 1 Casing Volume (OCV) = LWC x 1.63 3.38 gallons
 5 Casing Volumes = 16.91 gallons
 Method of Well Development _____
 Total Volume of Water Removed 65 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
0830	brilled	2	19.07	6.63	183.1	0.188	Brown < 100	2%	62.63 3.59
0850	pump 1.0	7	19.53	5.90	192.8	0.102	Brown < 100	2%	72.13 3.40
0915	pump 1.0	12	19.47	5.77	195.4	0.101	Brown < 100	0%	73.30 5.60
0930	pump 1.0	19	19.59	5.51	198.1	0.100	Brown 1054	0%	65.13 4.05
0950	pump 1.0	30	19.85	5.36	197.2	0.071	5.17 423.9	0%	67.18 4.28
1000	1.0	42	20.16	5.66	194.5	0.073	Slight 3732	0%	68.47 3.57
1020	1.0	50	19.78	5.52	197.8	0.066	Slight 96.52	0%	69.85 3.70
1030	.50	55	19.84	5.31	203.1	0.068	clear 15.38	0%	67.98 3.78
1040	.50	60	20.01	5.36	201.4	0.063	Clear 933	0%	67.32 3.62
1050	.50	65	20.00	5.40	199.8	0.061	Clear 6.27	0%	67.20 2.89

COMMENTS/OBSERVATIONS: 0900 well goes dry turn off allow to recover

Monitoring Well Development Log

Date Started (yr/mo/day) 13-Dec-16 Date Completed (yr/mo/day) 13-Dec-17
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # MW-136
 Upgradient Downgradient
 Weather Conditions Clear / Sunny
 Air Temperature 12-16-13 50's 12-17-13 30-40's °F

Total Well Depth (TWD) = 600.18 1/100 ft
 Depth to Ground Water (DGW) = 25.73 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 33.60 1/100 ft
 1 Casing Volume (OCV) = LWC x 1.63 5.49 gallons
 5 Casing Volumes = 27.38 gallons
 Method of Well Development Action Baker for under pump
 Total Volume of Water Removed 744.5 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
<u>Dec 16-13</u>									
<u>1553</u>	<u>bailed</u>	<u>4.0</u>					<u>Brn</u>	<u>1.0%</u>	<u>bailed</u>
<u>1610</u>	<u>pump 1.5</u>	<u>5.5</u>	<u>16.43</u>	<u>5.52</u>	<u>1940</u>	<u>0.089</u>	<u>Brn <1100</u>	<u>1.0%</u>	<u>40.71 3.53</u> <i>Surge</i>
<u>1620</u>	<u>.60</u>	<u>11.5</u>	<u>17.57</u>	<u>5.91</u>	<u>1645</u>	<u>0.106</u>	<u>Brn <1100</u>	<u>1.0%</u>	<u>51.31 3.95</u> <i>Surge</i>
<u>1630</u>	<u>.60</u>	<u>17.5</u>	<u>17.56</u>	<u>5.47</u>	<u>180.9</u>	<u>0.083</u>	<u>Brn <1100</u>	<u>0.0%</u>	<u>53.84 4.70</u> <i>Surge</i>
<u>1640</u>	<u>.60</u>	<u>23.5</u>	<u>17.79</u>	<u>5.47</u>	<u>179.9</u>	<u>0.078</u>	<u>Brn 4490</u>	<u>0.0%</u>	<u>53.61 5.01</u> <i>Surge</i>
<u>1700</u>	<u>.60</u>	<u>35.5</u>	<u>17.50</u>	<u>5.34</u>	<u>185.6</u>	<u>0.075</u>	<u>Brn 3948</u>	<u>0.0%</u>	<u>51.98 5.11</u> <i>Surge</i>
<u>12-17-13</u> <u>0740</u>	<u>.60</u>	<u>38.5</u>	<u>17.87</u>	<u>5.75</u>	<u>1943</u>	<u>0.089</u>	<u>Brn 410.9</u>	<u>0.0%</u>	<u>50.20 4.70</u> <i>Surge</i>
<u>0820</u>	<u>.60</u>	<u>50.5</u>	<u>16.14</u>	<u>5.47</u>	<u>197.0</u>	<u>0.075</u>	<u>Clear 11.81</u>	<u>0.0%</u>	<u>51.86 5.50</u>
<u>0840</u>	<u>.60</u>	<u>44.0</u>	<u>17.07</u>	<u>5.58</u>	<u>193.1</u>	<u>0.073</u>	<u>Clear 5.37</u>	<u>0.0%</u>	<u>51.80 5.49</u>
<u>0900</u>	<u>.60</u>	<u>45.6</u>	<u>17.12</u>	<u>5.60</u>	<u>192.3</u>	<u>0.075</u>	<u>Clear 4.24</u>	<u>0.0%</u>	<u>51.13 5.62</u>

COMMENTS/OBSERVATIONS: 1700 Stopped developing today will continue 12-17-13
0745 Stopped for safety nearby
0800 restarted

Monitoring Well Development Log

Date Started (yr/mo/day) 2014-3-26 Date Completed (yr/mo/day) 2014-3-26
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # ~~1111~~ RW-139
 Upgradient Downgradient
 Weather Conditions clear/sunny
 Air Temperature 48 °F

Total Well Depth (TWD) = 107.24 1/100 ft
 Depth to Ground Water (DGW) = 22.34 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 84.90 1/100 ft
 1 Casing Volume (OCV) = LWC x 1.63 = 13.83 gallons
 5 Casing Volumes = 69.19 gallons
 Method of Well Development groutless pump
 Total Volume of Water Removed 127.5 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
<u>3-26-14</u>									
<u>1510</u>	<u>1.5</u>	<u>7.5</u>	<u>16.17</u>	<u>5.65</u>	<u>884</u>	<u>0.140</u>	<u>263.8 Bm</u>		<u>Surged in screen</u>
<u>1520</u>	<u>1.5</u>	<u>22.5</u>	<u>17.24</u>	<u>6.05</u>	<u>1048</u>	<u>0.131</u>	<u>236.3 Bm</u>		<u>Surged in screen</u>
<u>1530</u>	<u>1.5</u>	<u>37.5</u>	<u>17.31</u>	<u>6.04</u>	<u>1253</u>	<u>0.125</u>	<u>13.81 clear</u>		<u>85.6</u>
<u>1540</u>	<u>1.5</u>	<u>52.5</u>	<u>17.51</u>	<u>5.94</u>	<u>1351</u>	<u>0.134</u>	<u>60.55 slight</u>		<u>Surged in screen</u>
<u>1550</u>	<u>1.5</u>	<u>67.5</u>	<u>17.49</u>	<u>5.90</u>	<u>1263</u>	<u>0.138</u>	<u>37.52.5 slight</u>		<u>83.4</u>
<u>1600</u>	<u>1.5</u>	<u>82.5</u>	<u>17.82</u>	<u>5.88</u>	<u>143.3</u>	<u>0.134</u>	<u>27.10.5 slight</u>		
<u>1610</u>	<u>1.5</u>	<u>97.5</u>	<u>17.55</u>	<u>5.96</u>	<u>149.7</u>	<u>0.134</u>	<u>14.59 clear</u>		
<u>1620</u>	<u>1.5</u>	<u>112.5</u>	<u>17.40</u>	<u>5.93</u>	<u>155.3</u>	<u>0.134</u>	<u>11.93 clear</u>		
<u>1630</u>	<u>1.5</u>	<u>127.5</u>	<u>17.68</u>	<u>5.92</u>	<u>164.8</u>	<u>0.134</u>	<u>9.74 Clear</u>		

COMMENTS/OBSERVATIONS: low yield pumping w/ groutless at 1.5 gpm

Monitoring Well Development Log

Date Started (yr/mo/day) 13-Dec-12 Date Completed (yr/mo/day) 13-Dec-12
 Field Personnel Randy Morgan
 Site Name Auriga Site Spartanburg SC
 Job # 60280417
 Well ID # MW-138
 Upgradient Downgradient
 Weather Conditions Clear/Sunny
 Air Temperature 30-50's °F

Total Well Depth (TWD) = 59.47 59.78 1/100 ft
 Depth to Ground Water (DGW) = 13.01 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = _____ 1/100 ft
 1 Casing Volume (OCV) = LWC x 1.63 gallons
 5 Casing Volumes = _____ gallons
 Method of Well Development test for barker / granules pump
 Total Volume of Water Removed 206 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
<u>Dec 17, 2013</u>									
<u>0915</u>	<u>barked</u>	<u>2</u>					<u>Brown <1100</u>	<u>2.0%</u>	<u>W2</u>
<u>0935</u>	<u>ground 2.0</u>	<u>10</u>	<u>15.38</u>	<u>6.20</u>	<u>1845</u>	<u>0.101</u>	<u>Bm <1100</u>	<u>1.0%</u>	<u>20.31 5.62</u>
<u>1000</u>	<u>2.0 2.5</u>	<u>60</u>	<u>16.25</u>	<u>5.99</u>	<u>1913</u>	<u>0.068</u>	<u>Bm <1100</u>	<u>1.0%</u>	<u>35.01 5.53</u>
<u>1020</u>	<u>2.0</u>	<u>100</u>	<u>16.31</u>	<u>5.49</u>	<u>2016</u>	<u>0.056</u>	<u>slight 3440</u>	<u>0%</u>	<u>37.73 6.04</u>
<u>1045</u>	<u>2.0</u>	<u>116</u>	<u>16.68</u>	<u>5.82</u>	<u>1929</u>	<u>0.062</u>	<u>Bm 8285</u>	<u>0%</u>	<u>24.53 7.91</u>
<u>1100</u>	<u>2.0</u>	<u>146</u>	<u>16.96</u>	<u>5.50</u>	<u>2004</u>	<u>0.059</u>	<u>clear 2474</u>	<u>0%</u>	<u>28.13 5.37</u>
<u>1115</u>	<u>2.0</u>	<u>176</u>	<u>16.88</u>	<u>5.58</u>	<u>1969</u>	<u>0.057</u>	<u>clear 9.60</u>	<u>0%</u>	<u>30.21 5.65</u>
<u>1130</u>	<u>2.0</u>	<u>206</u>	<u>17.12</u>	<u>5.42</u>	<u>2027</u>	<u>0.055</u>	<u>clear 9.39</u>	<u>0%</u>	<u>32.18 5.47</u>

COMMENTS/OBSERVATIONS: 1020 stop to empty development water
1038 restart pumping

Monitoring Well Development Log

Date Started (yr/mo/day) 2014-3-26 Date Completed (yr/mo/day) 2014-3-26

Field Personnel Randy Morgan

Site Name Auriga Site Spartanburg SC

Job # 60280417

Well ID # RW-~~127~~ 139

Upgradient _____ Downgradient _____

Weather Conditions Clear / Sunny

Air Temperature 47 °F

Total Well Depth (TWD) = 97.75 1/100 ft

Depth to Ground Water (DGW) = 13.68 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 84.07 1/100 ft

1 Casing Volume (OCV) = LWC x 0.63 = 13.70 gallons

5 Casing Volumes = 68.51 gallons

Method of Well Development granular pump

Total Volume of Water Removed 113 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (mS/cm)	Turbidity/Color	Sand Content (%)	Remarks DO
3-26-14									
1320	1.5	7.5	16.85	5.79	167.3	0.117	<1100 Bin		Surged in screen
1330	1.5	23.0	16.43	5.66	153.7	0.112	6348 Bin		Surged
1340	1.5	38.0	16.20	5.53	139.2	0.113	5833 slight		Surged
1350	1.5	53.0	15.91	5.64	159.0	0.112	650 clear		(Surged - 790 ft screen)
1400	1.5	68.0	16.63	5.61	175.8	0.111	108.7 slight		
1410	1.5	83.0	16.56	5.62	172.0	0.110	354 clear		
1420	1.5	98.0	16.51	5.60	175.2	0.110	1.44 clear		
1430	1.5	113.0	16.65	5.70	181.6	0.111	2.27 clear		

COMMENTS/OBSERVATIONS: (High yield)

WL
in screen
2103

Test Boring Report

BORING NO. MW-112
PAGE 1 OF 2

PROJECT: Auriga Spartanburg, SC
CLIENT: Celanese North America
CONTRACTOR: AE Drilling Services
EQUIPMENT: CME 550

PROJECT NO: 60280417
LOCATION: _____
ELEVATION: _____
DATE START: 12-4-13
DATE FINISH: 12-5-13
DRILLER: Bergman
PREPARED BY: Hartford

GROUND WATER		DEPTH TO:		CASING	SAMPLER	CORE BARREL		
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE	SIZE ID	HAMMER WT	HAMMER FALL
					HSN	SS		
						4 1/4	1 1/2	
							140	
							30	

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
					SANDY SILT (ML) moist, red, mostly silt, some fine sand
5.0		2		5	SANDY SILT (ML) Soft, moist, reddish yellow, mostly silt, Some fine sand
		2		6.5	
		2			
10.0		3		10	SANDY SILT (ML) Soft, moist, yellowish red, mostly silt, Some fine sand.
		2		11.5	
		1			
15.0		1		15	SANDY SILT (ML) soft, moist, olive brown, mostly silt, Some fine sand
		1		16.5	
		2			
20.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0		0 1 2		20 21.5	SANDY SILT (ML) Soft, wet, grayish brown, mostly silt, Some fine sand - saponite
25.0		2 4 6		25 26.5	Same as above except stiff
30.0		2 3 7		30 31.5	SANDY SILT (ML) stiff, wet, gray, mostly silt, some fine sand - saponite
35.0		3 4 5		35 36.5	Same as above with ^{occasional} trace coarse sand
40.0				40 41.5	Same as above
45.0					TD at 41.5 Sample 40.5 Auger NOT Auger Refusal

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0					<p>Partially weathered Rock</p> <p>49</p>
50.0					<p>Competent Rock socket</p> <p>53-55 Harder.</p>
55.0					<p>Gray Biotite Feldspar Gneiss Dry</p> <p>- 58</p> <p>White Gray Feldspar, Quartz, muscovite, Gneiss Dry -</p> <p>61</p> <p>Water Gray Black Biotite Garnet Schist</p> <p>Water</p>
60.0					<p>68</p> <p>White Feldspar Quartz Gneiss</p> <p>Total Depth 70'</p>
65.0					<p>68</p> <p>White Feldspar Quartz Gneiss</p> <p>Total Depth 70'</p>
70.0					<p>68</p> <p>White Feldspar Quartz Gneiss</p> <p>Total Depth 70'</p>

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0		27 38 36		20 21.5	Same as Above
25.0		9 10 11		25 26.5	SANDY SILT (ML) V. stiff, moist, grayish brown, mostly silt, some fine sand
30.0		5 6 10		30 31.5	SANDY SILT (ML) V. stiff, grayish brown moist-wet, mostly silt some fine sand
35.0		4 9 11		35 36.5	SILTY SAND (SM) m. dense, wet, white, mostly sand, little silt trace gravel size fragments
40.0		4 6 9		40 41.5	SANDY SILT (ML) stiff, wet, olive brown, mostly silt, some fine sand
45.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0		5 12 22		45 46.5	Same as above with rock fragments
50.0		4 6 12		50 51.5	SILT with sand (ML) V. stiff, wet, mostly silt, little fine sand Somewhat harder drilling based on Auger chatter. - Probable weathered rock lens.
55.0		4 13 50/45		55 56.5	SILTY SAND (SM) V. Dense wet, mostly fine sand some silt Auger Refusal at 57'
60.0					
65.0					
70.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE	<5%
		31+	HARD			

AZCOM

Test Boring Report

BORING NO. RW-115
PAGE 1 OF 5

PROJECT: Auriga Spartanburg, SC
CLIENT: Celanese North America
CONTRACTOR: AE Drilling Services
EQUIPMENT: CME 550

PROJECT NO: 60280417
LOCATION: Bruckner Rd
ELEVATION: 3/14/14 casing #2
DATE START: 2/27/14 (casing) #1
DATE FINISH: 3/18/14
DRILLER: Dan Bergman
PREPARED BY: Hartford / M. Law

GROUND WATER		DEPTH TO:		CASING		SAMPLER	CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE		
					steel	steel	
					SIZE ID	6"	
					HAMMER WT	-	
					HAMMER FALL	-	

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0					<p>- Surface casing (6") drilled with Mud Rotary using 9 5/8" roller bit.</p> <p>- casing set from 0' - 59.5' bgs</p> <p>- see MW-114 log for lithology</p> <p>3-13-14 - Removed 6-in casing installed on 2/27/14 to 59.5' Ream hole to <u>75 ft</u></p> <p>3-14-14 - Install 6-in steel surface casing to 75 ft</p>
10.0					
15.0					
20.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0					<p>- Harder drilling 49.5' to 51.5' Bgs - (PWR lens?)</p> <p>- Softens up @ 52' Bgs -</p> <p>- Harder drilling @ 55.5' Bgs -</p> <p>- Top of Rock called @ 57' Bgs - Cuttings are fresh to slightly weathered fragments of Muscovite Mica, white Feldspars, and quartz, with few same biotite Mica. <u>GNEISS</u></p> <p>- Rock socket drilled to 59.5' Bgs - (Surface casing from 0-59.5' Bgs)</p> <p>- continue with Air Hammer</p> <p>- soft drilling (Saprolite zone?)</p>
46.0					
47.0					
48.0					
49.0					
50.0					
51.0					
52.0					
53.0					
54.0					
55.0					
56.0					
57.0					
58.0					
59.0					
60.0					
61.0					
62.0					
63.0					
64.0					
65.0					
66.0					
67.0					
68.0					
69.0					
70.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES	
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%	
		31+	HARD				

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
95.0					<p><u>96</u> Fracture 96-96.5</p> <p>Fracture 92.5</p> <p>Fracture 98.4</p> <p>Fracture 99.3</p> <p>Biotite Garnet Schist / Gneiss</p> <p>NO noticeable increase IN water from these fractures</p> <p>Dry Fracture</p> <p>Packet at 90 - Pumped Dry - Recovers 0.8 ft/5min - called Dry zone</p>
100.0					<p>Attempt RW-115-105</p> <p>Dry No sample</p>
105.0					<p>Attempt RW-115-120</p> <p>Dry No sample</p> <p>Packet at 105 Pumped Dry - Recovery 0.08 ft/5min - called Dry zone</p> <p>Biotite Garnet Gneiss</p>
110.0					<p>-115-2 small fractures -</p>
115.0					<p>Total depth drilled 120 ft</p>
120.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

Target 40'

AZCOM						Test Boring Report			BORING NO. <u>MW-116</u>	
									PAGE <u>1</u> OF <u>2</u>	
PROJECT: <u>Auriga Spartanburg, SC</u>									PROJECT NO: <u>60280417</u>	
CLIENT: <u>Celanese North America</u>									LOCATION: _____	
CONTRACTOR: <u>AE Drilling Services</u>									ELEVATION: _____	
EQUIPMENT: <u>CME 550</u>									DATE START: <u>12-6-13</u>	
GROUND WATER		DEPTH TO:		CASING		SAMPLER		CORE BARREL		
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE	<u>115H</u>	<u>SS</u>			
					SIZE ID	<u>4 1/4</u>	<u>1.5" ID</u>			
					HAMMER WT	<u>140</u>				
					HAMMER FALL	<u>30</u>				
DEPTH IN FEET		ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS				
5.0						SANDY SILT (ML) moist, brown, mostly silt, some fine sand				
			<u>2</u>		<u>5</u>	SILTY CLAY (CL-ML) very soft, wet, mostly silt and clay, trace fine sand				
			<u>1</u>		<u>6.5</u>					
			<u>1</u>							
10.0						SILTY SAND (SM) very loose, wet, mostly fine sand, some silt with seam of coarse quartz sand				
			<u>1</u>		<u>10</u>					
			<u>1</u>		<u>11.5</u>					
			<u>1</u>							
15.0						SANDY SILT (ML) medium stiff, wet, mostly silt, some fine sand, with 1/4" seam of coarse sand. - Saprolite				
			<u>2</u>		<u>15</u>					
			<u>2</u>		<u>16.5</u>					
			<u>3</u>							
20.0										
BLOWS/FT.		DENSITY	BLOWS/FT.		CONSISTENCY	SAMPLER ID.		DESCRIPTIONS		NOTES
0-4		VERY LOOSE	0-2		VERY SOFT	SS SPLIT SPOON		MOSTLY	50-100%	WD WHILE DRILLING
5-10		LOOSE	3-4		SOFT	ST SHELBY TUBE		SOME	30-45%	NE NOT ENCOUNTERED
11-30		MEDIUM DENSE	5-8		MEDIUM STIFF	G GRAB SAMPLE		LITTLE	15-25%	UR NOT READ
31-50		DENSE	9-15		STIFF	MC MACRO-CORE		FEW	5-10%	NR NO RECOVERY
50+		VERY DENSE	16-30		VERY STIFF			TRACE	<5%	
			31+		HARD					

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0		2		2.0	Same as above silt with sand seam
		2		2.5	
		3		2.5	
25.0		2		2.5	Sandy silt (ML) medium stiff, wet, olive brown, mostly silt, some fine sand
		2		2.5	
		5		26.5	
30.0		11		3.0	Same as above Gneiss Gneiss Fragment
		11		3.5	
		50/3"		3.5	
35.0					Auger refusal at 31.5'
40.0					
45.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
70.0					<p><u>3/24/14 STOP AT 72.7 DRY -</u></p> <p><u>75'</u> White Feldspar Gneiss Dry.</p> <p>Black Biotite Gneiss</p> <p><u>81'</u> Black Biotite Gneiss Dry</p> <p>Total Depth 88 FT 3/24/14</p>
75.0					
80.0					
85.0					
90.0					
95.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0		15 27 30		20 - 21.5	SANDY SILT (ML) Hard, moist, brownish gray, mostly silt, Some fine sand, weathered garnet, saponite
25.0		4 4 6		25 - 26.5	SANDY SILT (ML) Stiff, moist, light yellowish brown, mostly silt, Some fine sand
30.0		2 5 7		30 - 31.5	SANDY SILT (ML) Stiff, wet, olive brown, mostly silt, some fine sand 31-31.2 - mostly sand
35.0		13 27 33		35 - 36.5	SANDY SILT (ML) Hard, wet, olive brown, mostly silt, some fine sand, with weathered garnet schist/gneiss fragments 36-36.5
40.0		13 12 18		40 - 41.5	same as above with quartz fragments and garnet quartz fragments
45.0					Refusal at 44.3

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0					<p>- Harder again @ 47' Bgs -</p> <p>- Softens up @ 48' Bgs -</p>
46.0					
47.0					
48.0					
49.0					
50.0					
51.0					
52.0					
53.0					
54.0					
55.0					<p>- Harder drilling @ 50.7' Bgs -</p> <p>- Softens up again @ 52' Bgs -</p>
56.0					
57.0					
58.0					
59.0					
60.0					
61.0					
62.0					
63.0					
64.0					
65.0					<p>- Harder drilling @ 58' Bgs - (seems more competent slown penetration)</p> <p>65 Gray Breccia schist @ 65 - surface casing 0' - 64' Bgs</p> <p>66 Brown partially weathered Breccia schist</p> <p>67 Gray Breccia schist</p> <p>68 Gray Brown partially weathered Breccia schist</p>
66.0					
67.0					
68.0					
69.0					
70.0					
71.0					
72.0					
73.0					
74.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS			
70.0					<p><u>72</u></p> <p>Gray Biotite Garnet Schist</p>			
75.0					<p><u>77</u></p> <p>White Feldspar Quartz Gneiss</p>			
80.0					<p><u>83</u></p> <p>Possible Small Fractures or soft zone -</p> <p>Gray Biotite Garnet Schist</p> <p>Wait 10 min blow hole - trickle of water</p>			
85.0					<p><u>84</u></p> <p>White Feldspar Biotite Quartz Gneiss</p>			
90.0					<p><u>92</u></p>			
95.0								
BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS		NOTES	
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100%	WD	WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45%	NE	NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25%	UR	NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10%	NR	NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%		
		31+	HARD					

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
95.0					<p>to Gray White Feldspar Biotite Quartz Gneiss</p>
100.0					<p>110 small fractures or soft zones Gray Biotite Garnet schist stop at 113 for lunch No increase in water over blowing^{check} at 88'</p>
105.0					<p>Total Depth 118'</p>
110.0					
115.0					
120.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

Test Boring Report

BORING NO. MW-120
 PAGE 1 OF 3

PROJECT: Auriga Spartanburg, SC
 CLIENT: Celanese North America
 CONTRACTOR: AE Drilling Services
 EQUIPMENT: CME 550

PROJECT NO: 60280417
 LOCATION: _____
 ELEVATION: _____
 DATE START: 12-5-13
 DATE FINISH: 12-5-13
 DRILLER: Bergman
 PREPARED BY: Hartford

GROUND WATER		DEPTH TO:			CASING	SAMPLER	CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE		
					1 1/2 A	SS	
					SIZE ID	4 1/4	1.5
					HAMMER WT	140	
					HAMMER FALL	30	

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
					SANDY SILT (ML) moist, yellowish red, mostly silt, some fine sand - fill -
5.0		2 2 2		5 5.5 6.5	Same as above - soft
10.0		4 6 8		10 11.5	Same as above - fill stiff
15.0		2 3 5		15 16.5	SANDY SILT (ML) moist, medium stiff, olive yellow, mostly silt, some fine sand
20.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30 31+	VERY STIFF HARD			TRACE <5%

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0		3 3 5		20 21.5	Same as above
25.0		4 4 5		25 26.5	SILTY SAND (SM) Loose, moist, white & olive brown, mostly fine to coarse sand, some silt
30.0		3 3 5		30 31.5	Same as above
35.0		3 2 5		35 36.5	SILTY SAND (SM) Loose, moist, olive yellow, mostly fine sand, some silt
40.0		4 4 4		40 41.5	SILTY SAND (SM) Loose, wet, dark grayish brown, mostly fine sand, some silt
45.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0		10 16 29		45 46.5	Well Graded Sand WITH SILT (SW-SM) Dense, wet, pale yellow, mostly fine to coarse sand few silt, trace gravel size qbz & Feldspar
50.0		4 7 13		50 51.5	SILTY SAND (SM) medium dense, wet, grayish brown, mostly fine sand, some silt
55.0		12 22 27		55 56.5	Same as above - Saprolite 2 IN ZONE of Sand
					Total Depth 56.5 ft Not Refusal
60.0					
65.0					
70.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0					<p>- See mw-120 log for lithology from 0-56' Bgs -</p>
50.0					<p>- Harder drilling @ 54' Bgs - (Pur lense?)</p> <p>- Softens up @ 55.5' Bgs -</p>
55.0					<p>- Harder again @ ~ 63' Bgs - (Another lense?)</p> <p>- Soft @ 65' Bgs -</p> <p>- Harder @ 66' Bgs - (Rock collect by driller)</p> <p>- Surface casing 0'-69.5' Bgs with 3.5' socket -</p>
60.0					
65.0					
70.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

Test Boring Report

BORING NO. MW-122
PAGE 1 OF 3

PROJECT: Auriga Spartanburg, SC
CLIENT: Celanese North America
CONTRACTOR: AE Drilling Services
EQUIPMENT: CME 950

PROJECT NO: 60280417
LOCATION: _____
ELEVATION: _____

DATE START: 12-11-13
DATE FINISH: 12-11-13
DRILLER: DeGard
PREPARED BY: Hartford

*Plan
60-*

GROUND WATER		DEPTH TO:		CASING	SAMPLER	CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE	SIZE ID
					454	SS
					444	1.5
					140	
					30	

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
					SANDY SILT (ML) moist, reddish brown, mostly silt some fine sand
5.0		3 3 5		5 6.5	SANDY SILT (ML) yellowish brown medium stiff, moist, mostly silt, some fine sand
10.0		3 5 7		10 11.5	same as above with 1/2 in coarse sand zone - Saprolite
15.0		3 5 7		15 16.5	same as above
20.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0		3 4 6		20 21.5	SANDY SILT (ML) Stiff, moist, mostly silt, some fine sand yellowish brown
25.0		3 4 6		25 26.5	SANDY SILT (ML) LT olive brn Stiff, wet, mostly silt, some fine sand coarse sand 26-26.1
30.0		3 3 9		30 31.5	SANDY SILT (ML) LT olive brn Stiff, wet, mostly silt, some fine sand, trace medium sand
35.0		10 10 9		35 36.5	SILTY SAND (SM) medium dense, wet, grayish brown, mostly fine to coarse sand, little silt
40.0		4 5 4		40 41.5	SANDY SILT (ML) Stiff, wet, light olive brown, mostly silt, some fine sand, 1/4 in coarse sand at 41
45.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0		43 50/3.5"		45 46.5	WELL GRADED SAND WITH SILT (SW-SM) Very dense, wet, white, mostly fine to coarse sand, few silt, trace fine gravel. almost all weathered feldspar and quartz
50.0	13.2	23 38 50/4"		50 51.5	Well Graded sand with Gravel (SW-) Very dense, wet, white to light gray, mostly fine to coarse sand, little gravel.
55.0	0	15 50/5"		55 56	SILTY SAND (SM) Very dense, wet, dark olive brown, mostly fine sand, some silt
60.0					Auger Refused at 58 ft
65.0					
70.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0					<p>See Log for MW-122 for (0-58) Auger Refusal at 58ft</p>
50.0					<p>58</p> <p>Competent Rock Socket 58-60</p> <p>Black Biotite Schist - DRY</p>
55.0					
60.0					
65.0					
70.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
70.0					Black Biotite Schist Dry
75.0					Black Biotite Schist - Dry
80.0					Black Biotite Schist - Dry
85.0					Black Biotite Schist - Dry
90.0					Black Biotite Schist - Dry
95.0					Black Biotite Schist - Dry

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
95.0					<i>Black Biotite Schist Dig</i>
100.0					<i>Black Biotite Schist Dig</i>
105.0					<i>Black Biotite Schist Dig</i>
110.0					<i>Black Biotite Schist Dig</i>
115.0					<i>Black Biotite Schist Dig</i>
120.0					<i>Black Biotite Schist Dig</i>

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

Plan 60

AZCOM						Test Boring Report						BORING NO. <u>MW-124</u>		PAGE <u>1</u> OF <u>3</u>	
PROJECT: <u>Auriga Spartanburg, SC</u>												PROJECT NO: <u>60280417</u>			
CLIENT: <u>Celanese North America</u>												LOCATION: _____			
CONTRACTOR: <u>AE Drilling Services</u>												ELEVATION: _____			
EQUIPMENT: <u>CME 550</u>												DATE START: <u>12-11-13</u>			
GROUND WATER			DEPTH TO:			CASING		SAMPLER		CORE BARREL		DATE FINISH: <u>12-11-13</u>			
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE	<u>NSA</u>	<u>SS</u>					DRILLER: <u>D Bergman</u>			
					SIZE ID	<u>4 1/4</u>	<u>1.5 in</u>					PREPARED BY: <u>Hartford</u>			
					HAMMER WT	<u>170</u>									
					HAMMER FALL	<u>30</u>									
DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS										
					SANDY SILT (ML) Moist, yellowish brown, mostly silt, some fine sand										
5.0		<u>4</u> <u>3</u> <u>7</u>		<u>5</u> <u>6.5</u>	SANDY SILT (ML) Stiff, moist, yellowish red & grey, mostly silt some fine sand, 1/4 in sand at 6'										
10.0		<u>4</u> <u>5</u> <u>8</u>		<u>10</u> <u>11.5</u>	SILTY SAND (SM) medium dense, moist, brown, mostly fine sand, some silt										
15.0		<u>4</u> <u>5</u> <u>7</u>		<u>15</u> <u>16.5</u>	Same as above except light yellowish brown.										
20.0															
BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS		NOTES								
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY	50-100%	WD	WHILE DRILLING							
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME	30-45%	NE	NOT ENCOUNTERED							
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE	15-25%	UR	NOT READ							
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW	5-10%	NR	NO RECOVERY							
50+	VERY DENSE	16-30	VERY STIFF		TRACE	<5%									
		31+	HARD												

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0		4 4 7		20 21.5	SANDY SILT (ML) Stiff, moist, mostly silt, some fine sand ^ Lt olive brown
25.0		3 3 8		25 26.5	SANDY SILT (ML) Stiff, moist, light olive brown, mostly silt, Some fine sand
30.0		3 5 8		30 31.5	Same as above wet
35.0		13 5 8		35 36.5	SANDY SILT (ML) 35-35.5 - olive brown Well Graded Sand (SW) 35.5-36 - white SANDY SILT (ML) 36-36.5 - olive brown
40.0		13 14 41		40 41.5	WELL GRADED SAND (SW) Very dense, wet, mostly fine to coarse sand, trace silt, trace gravel
45.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0		8 11 17		45 46.5	SILTY SAND (Sm) medium dense wet, olive brown, mostly fine sand, some silt.
50.0		8 13 20		50 51.5	Same as above dense
55.0		5 10 11		55 56.5	SILTY SAND (Sm) medium dense, wet, grayish brown, mostly fine sand, some silt
60.0		5 12 11		60 61.5	Same as above. Well Graded Sand seams
65.0					Drilled 60.5 - Not Auger Refused Sampled to 61.5
70.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			



Test Boring Report

BORING NO. RW-125
 PAGE 1 OF 7

PROJECT: Auriga Spartanburg, SC
 CLIENT: Celanese North America
 CONTRACTOR: AE Drilling Services
 EQUIPMENT: CME 750

PROJECT NO: 60280417
 LOCATION: _____
 ELEVATION: _____

GROUND WATER		DEPTH TO:			CASING	SAMPLER	CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE	SIZE ID	HAMMER WT
					PVC	6-IN	

DATE START: 1/22/14 Surface casing
 DATE FINISH: 2/21/14
 DRILLER: T. Burckhardt
 PREPARED BY: Hartford

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0					<p>9 1/4 in mud rotary drilling to set 6-in PVC surface casing (0 - 76)</p> <p>See Log for MW-124 for (0-60) soil descriptions.</p>
10.0					
15.0					
20.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
700 145					<p>Stop at 146' target depth and turn off air for 30 minutes clock for recharge - After 30 min hole produced \approx 1/2 Gpm mud/water of PH 11.5. Source may be just below casing - at 76</p> <p>Biotite schist no water produced during drilling</p> <p>Total Depth 166 ft No Fractures encountered 76-165 PWR 76-87 - soft - may be source of 1/2 Gpm</p>
150 700					
155 800					
160 850					
165 900					
170 950					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

Test Boring Report

BORING NO. MW-126
 PAGE 1 OF 3

PROJECT: Auriga Spartanburg, SC
 CLIENT: Celanese North America
 CONTRACTOR: AE Drilling Services
 EQUIPMENT: CME 550

PROJECT NO: 60280417
 LOCATION: _____
 ELEVATION: _____

DATE START: 12-12-13
 DATE FINISH: 12-12-13
 DRILLER: D. Bergman
 PREPARED BY: Hartford

GROUND WATER		DEPTH TO:			CASING	SAMPLER	CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE	SIZE ID	HAMMER WT
					HSR	SS	
						4 1/4	1.5-IN
							140
							30

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0		2 3 4		5 - 6.5	SANDY SILT (ML) stiff, moist, reddish brown, mostly silt, some fine to coarse sand, trace gravel - Possible Fill -
10.0		5 5 6		10 - 16.5	WELL GRADED SAND (SW) moist, Lt Grey, mostly f-c sand SILTY SAND (SM) medium dense, moist, mostly fine sand, some silt
15.0		7 13 9		15 - 16.5	SILTY SAND (SM) 1/2 in gravel seen as 16'
20.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	MOSTLY	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SOME	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	LITTLE	UR NOT READ
31-50	DENSE	9-15	STIFF	MC	FEW	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0		6 7 13		20 21.5	POORLY GRADED SAND WITH SILT (SP-SM) Medium dense, moist, mostly fine to medium sand, little silt - Saprolite.
25.0		4 6 9		25 26.5	SANDY SILT (ML) Stiff, moist, mostly silt, some fine sand
30.0		4 6 12		30 31.5	Same as above.
35.0		4 6 5		35 36.5	SANDY SILT (ML) WET 2-IN @ 36.2 sand/gravel at 36.2
40.0		42 50		40 41.5	WELL GRADED SAND (SW) Very dense, wet, gray, mostly fine to coarse sand, trace gravel, trace silt
45.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0		50/5"		45 46.7	POORLY GRADED SAND WITH S.I.H (SP-SM) Very dense, wet, grayish brown, mostly fine to medium sand, few silt
50.0		50/3		49.5	Same as above Auger Refusal <u>50</u>
55.0					
60.0					
65.0					
70.0					

PLAN 50'

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			



Test Boring Report

BORING NO. MW-128
 PAGE 1 OF 3

PROJECT: Auriga Spartanburg, SC
 CLIENT: Celanese North America
 CONTRACTOR: AE Drilling Services
 EQUIPMENT: CME 550

PROJECT NO: 60280417
 LOCATION: _____
 ELEVATION: _____

DATE START: 12-16-13
 DATE FINISH: 12-16-13
 DRILLER: D. Bergman
 PREPARED BY: Hartford

GROUND WATER		DEPTH TO:		CASING		SAMPLER	CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE		
					HSR		
					SIZE ID	4 1/4	
					HAMMER WT	140	
					HAMMER FALL	30	

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0		2 3 4		5 6.5	SANDY SILT (ML) medium stiff, moist, mostly silt, some fine sand red
10.0		4 4 5		10 11.5	SILTY SAND (ML) Loose, moist, reddish brown, mostly fine sand, some silt - sample to
15.0		5 7 11		15 16.5	Same as above
20.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0		4 5 8		20 21.5	SILTY SAND (SM) Medium dense, moist, grayish brown, mostly fine sand, some silt
25.0		5 6 8		25 26.5	Same - brownish yellow
30.0		4 8 12		30 31.5	Same grayish brown
35.0		9 25 37		35 36.5	SILTY SAND (SM) Very dense, moist, grayish brown, mostly fine sand, little silt
40.0		6 6 10		40 41.5	SILTY SAND (SM) medium dense, wet, grayish brown, mostly fine sand, little silt
45.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0		5 7 9		45 46.5	SILTY SAND (SM) Medium dense, wet, yellowish brown, mostly fine sand, little silt.
50.0		5 8 10		50 51.5	SILTY SAND (SM) medium dense, wet, yellowish brown, mostly fine to medium sand, little silt
55.0		6 9 11		55 56.5	Same as above
60.0		5 7 9		60 61.5	Same as above
65.0					Total Depth Augered 60.5 Not Refusal
70.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

AZCOM

Test Boring Report

BORING NO. RW-129
PAGE 1 OF 8PROJECT: Auriga Spartanburg, SC
CLIENT: Celanese North America
CONTRACTOR: AE Drilling Services
EQUIPMENT: SchrammPROJECT NO: 60280417
LOCATION: _____
ELEVATION: _____DATE START: 2-2-14
DATE FINISH: 2-26-14
DRILLER: T Burnette
PREPARED BY: Hartford*Surface casing 2-5-14*

GROUND WATER		DEPTH TO:			CASING		SAMPLER	CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE			
					HSA			
					SIZE ID	8/4		
					HAMMER WT			
					HAMMER FALL			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0					<p>12-IN OD HSA Drilling to set 6 IN PVC surface casing (88.4)</p> <p>See log for MW-128 for (0-60)</p> <p>See nearby Extraction well log for EW-37 for (60-88.4)</p>
10.0					<p>12-IN OD HSA Drilling to set 6 IN PVC surface casing (88.4)</p> <p>See log for MW-128 for (0-60)</p> <p>See nearby Extraction well log for EW-37 for (60-88.4)</p>
15.0					<p>12-IN OD HSA Drilling to set 6 IN PVC surface casing (88.4)</p> <p>See log for MW-128 for (0-60)</p> <p>See nearby Extraction well log for EW-37 for (60-88.4)</p>
20.0					<p>12-IN OD HSA Drilling to set 6 IN PVC surface casing (88.4)</p> <p>See log for MW-128 for (0-60)</p> <p>See nearby Extraction well log for EW-37 for (60-88.4)</p>

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
120.0				120	Black Biotite Garnet Schist
125.0				125	Dry - 125' Fracture - Breathing zone 0 ppm during drilling Note Dry Fracture at 122 ft in nearby EW-37 Biotite Garnet Schist
130.0				135	Black
135.0				135	
140.0				135	Black/Grey Biotite Garnet Schist
145.0				150	

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100%
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45%
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25%
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10%
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
145 120.0					Black / Gray Biotite Garnet Schist
150 120.0				150	
				150	
155 100.0					
160 130.0					Black Gray Biotite Garnet Schist
165 110.0				165	White / Gray Feldspar Garnet Gneiss
				165	
170 100.0					

RW-129 (150-165) Dry

No Fractures noted during drilling 135-150 zone produced water for packer sampling

No Fractures noted during drilling 150-165

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100%
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45%
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25%
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10%
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
170			RW-129 (165-180) Dry-	165	White, Grey Feldspar Garnet Gneiss - No fractures noted during drilling 165-180 ft. Total depth 180 ft
175					
180					
185					
190					
195					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE	<5%
		31+	HARD			

Test Boring Report

BORING NO. MW-130

PAGE 1 OF 3

PROJECT: Auriga Spartanburg, SC
 CLIENT: Celanese North America
 CONTRACTOR: AE Drilling Services
 EQUIPMENT: CME 550

PROJECT NO: 60280417
 LOCATION: _____
 ELEVATION: _____

DATE START: 12-17-13
 DATE FINISH: 12-17-13
 DRILLER: D. Bergman
 PREPARED BY: Hartford

GROUND WATER		DEPTH TO:			CASING		SAMPLER	CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE			
						HSA	SS	
					SIZE ID	4 1/4 in	LS	
					HAMMER WT	140		
					HAMMER FALL	30		

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
					4 in Asphalt
					SANDY SILT (ML) moist, reddish brown, mostly silt, some fine sand
5.0		2 3 3		5 6.5	CLAYEY SAND (SC) Loose, wet, reddish brown, mostly fine sand 1. Hk clay
					Fill
10.0		3 3 3		10 11.5	Same as above ^{wet} with gravel Reddish brown to gray. Fill
15.0		3 5 6		15 16.5	SANDY SILT (ML) medium dense, moist, reddish brown, mostly silt, some fine sand
20.0					Geotextile fabric in casing

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0		5 8 11		2.0 2.5	CLAYEY SAND (SC) red medium dense, moist, mostly fine to coarse sand little clay - Fill
25.0		5 6 8		2.5 26.5	Same as above Fill
30.0		4 4 6		3.0 31.5	Same as above
35.0		8 10 11		3.5 36.5	SILTY SAND (Sm) medium dense, moist, reddish brown, mostly fine sand, some silt - sample to
40.0		5 7 10		4.0 41.5	SILTY SAND medium dense, moist, olive yellow, mostly fine sand, little silt.
45.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30 31+	VERY STIFF HARD		TRACE	<5%

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0		7 8 11		45 46.5	Silty Sand (SM) medium dense, moist, yellowish brown, mostly fine sand, little silt
50.0		7 5 7		50 51.5	SILTY SAND (SM) medium dense, wet, yellowish brown, mostly fine sand, little silt
55.0		7 7 9		55 56.5	SILTY sand (SM) medium dense, wet, olive brown, mostly fine to medium sand, little silt
60.0		4 4 6		60 61.5	WELL GRADED SAND (SW) Loose, wet, pale brown to light gray, mostly fine to coarse sand, trace gravel, trace silt.
65.0				61.5	TO NOT Refusal
70.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			



Test Boring Report

BORING NO. RW-131
 PAGE 6 OF 6

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
120.0					Black Biotite Garnet Schist - Dry
125.0					White - Feldspar - Dry
130.0					137 - ~ Dust Reduced During drilling Black Biotite Garnet schist
135.0					Total Depth 141 Open interval 116.5 - 141 Producing 1/2 GPM - well assumed to be from 137 based on reduced dust during drilling and EL-53 (possible fracture at 135')
140.0					
145.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

Test Boring Report

BORING NO. MW-132
PAGE 1 OF 3

PROJECT: Auriga Spartanburg, SC
CLIENT: Celanese North America
CONTRACTOR: AE Drilling Services
EQUIPMENT: CME-550

PROJECT NO: 60280417
LOCATION: _____
ELEVATION: _____

GROUND WATER		DEPTH TO:			CASING	SAMPLER	CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE	SIZE ID	HAMMER WT
					HSA	55	
						4 1/4	

DATE START: 12-18-13
DATE FINISH: 12-18-13
DRILLER: D. Becomeau
PREPARED BY: Hartford

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
					0-2 Asphalt
					2-3.5' in and out of gravel
5.0		2 4 4		5 5 6.5	SILTY SAND (SM) Loose, moist, yellowish brown, mostly fine to medium sand, some silt.
10.0		2 3 4		10 11.5	Same as above
15.0		5 4 5		15 16.5	SILTY SAND (SM) Loose, moist, reddish brown, mostly fine to medium sand, some silt
20.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30 31+	VERY STIFF HARD		TRACE <5%	

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0		4 5 6		20 21.5	Same as above
25.0		4 6 7		25 26.5	SILTY SAND (SM) medium dense, moist, yellowish brown mostly fine to medium sand, some silt
30.0		4 5 5		30 31.5	SILTY SAND (SM) Loose, moist, brown, mostly fine sand, some silt
35.0		3 4 4		35 36.5	Same as above - grayish brown - Trace gravel in 1/2" zone
40.0		3 4 6		40 41.5	SILTY SAND (SM) Loose, wet, gray, mostly fine sand, some silt
45.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0		5 5 7		45 46	SILTY SAND (SM) Medium dense, wet, olive gray, mostly fine sand, 1.4% silt.
50.0		9 12 11		50 51.5	Same as above
55.0		3 4 7		55 56.5	SILTY SAND (SM) Medium dense, wet, olive brown, mostly fine sand, some silt.
60.0				60 61.5	Same as above
65.0		24 22 50/5.5		65 66.5	Same as above with weathered Biotite Schist fragments. Total Depth Drilled 66.5
70.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			



Test Boring Report

BORING NO. RW-133PAGE 1 OF 7

PROJECT: Auriga Spartanburg, SC
 CLIENT: Celanese North America
 CONTRACTOR: AE Drilling Services
 EQUIPMENT: Sobram

PROJECT NO: 60280417
 LOCATION: Maintenance Bldg
 ELEVATION: _____

*Surku
Passing 8-7-14*

DATE START: 2-6-14
 DATE FINISH: 3-22-14
 DRILLER: T. Burnette
 PREPARED BY: Hartford

GROUND WATER			DEPTH TO:		CASING	SAMPLER	CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE		
3/22	19:28	154.7	8'8"		Carbon Steel		
3/22	19:35	153.3			SIZE ID	6-IN	
3/24	9:30	45.25			HAMMER WT		
					HAMMER FALL		

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0					<p>9 1/4-in mud rotary drilling to set 6-in steel surface casing (0-98 ft)</p> <p>see log for MW-132 for (0-65 ft)</p>
5.5					
6.0					
6.5					
7.0					
7.5					
8.0					
8.5					
9.0					
9.5					
10.0					
10.5					
11.0					
11.5					
12.0					
12.5					
13.0					
13.5					
14.0					
14.5					
15.0					
15.5					
16.0					
16.5					
17.0					
17.5					
18.0					
18.5					
19.0					
19.5					
20.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
70.0					<p style="text-align: center;">Sapn. to</p> <hr/> <p style="text-align: center;">82</p> <hr/> <p style="text-align: center;">Partially weathered Rock</p> <hr/> <p style="text-align: center;">86</p> <hr/> <p style="text-align: center;">Competent Rock socket 86-88</p> <hr/> <p style="text-align: center;">Black Biotite Schist - dry -</p>
75.0					
80.0					
85.0					
90.0					
95.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
95.0					Black Biotite Schist Dry
100.0					
102.5					Possible small fracture - Dry during drilling
105.0					White Feldspar, quartz, muscovite zone
110.0					110
112					Fracture
114					Black Biotite Schist Dry
115.0					White Feldspar, quartz, muscovite zone Dry
120.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			



Test Boring Report

BORING NO. MW-134
 PAGE 1 OF 4

PROJECT: Auriga Spartanburg, SC
 CLIENT: Celanese North America
 CONTRACTOR: AE Drilling Services
 EQUIPMENT: _____

PROJECT NO: 60280417
 LOCATION: _____
 ELEVATION: _____

GROUND WATER		DEPTH TO:			CASING		SAMPLER	CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE			
					ASH			
					SIZE ID	4 1/4		
					HAMMER WT	140		
					HAMMER FALL	30		

DATE START: 12-19-13
 DATE FINISH: 12-19-13
 DRILLER: D Bergman
 PREPARED BY: Hartford

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
					0-0.2 Asphalt
					0.2-0.6' Gravel
5.0		5 6 5		5 6.5	SANDY SILT (ML) Stiff, moist, mostly silt, some fine sand yellowish brown - fill
10.0		4 4 4		16 11.5	SILTY SAND (SM) Loose, moist, reddish brown, mostly fine sand, some silt. - fill -
15.0		4 5 6		15 16.5	CLAYEY SAND (SC) Stiff, moist, red, mostly fine to medium sand little clay
20.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0		4 4 7		20 21.5	CLAYEY SAND (SC) Stiff, moist, mostly, fine to medium sand little clay. red
25.0		2 3 4		25 26.5	CLAYEY SAND (SC) Medium stiff, moist, red, mostly fine to medium sand, little clay, trace gravel.
30.0		5 10 17		30 31.5	CLAYEY SAND (SC) V. stiff, moist, red, mostly fine to coarse sand, little clay, trace gravel Fill?
35.0		7 10 11		35 36.5	WELL GRADED SAND (SW) Medium dense, ^{moist} white, mostly fine to coarse sand, trace silt.
40.0		8 9 12		40 41.5	Same as above - moist white - (SW) with trace gravel - mostly feldspar
45.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0		5 7 9		45 46.5	SILTY SAND (SM) Medium dense, moist, olive yellow, mostly fine sand, some silt
50.0		5 6 8		50 51.5	Same as above
55.0		5 6 8		55 56.5	Same as above - wet
60.0		8 12 42		60 61.5	SILTY SAND (SM) Very dense, wet, olive brown, mostly fine to coarse sand, some silt, trace weathered rock fragments
65.0		4 6 8		65 66.5	Same as above
70.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES	
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%	
		31+	HARD				

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS	
70.0		2 3 8		70 71.5	<p>SILTY SAND (SM) Loose, wet, olive brown, mostly fine to coarse sand, some silt. 70.5-70.7 well graded sand (SW)</p>	
75.0				75 76.5		Same as above
80.0						Auger to 75.5
85.0						
90.0						
95.0						

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
95.0					<p>98</p> <p>99 Partially weathered Rock</p>
100.0					<p>Saprock to</p> <p>105</p> <p>Soft Partially weathered Rock</p>
105.0					<p>115</p> <p>Harder Partially weathered Rock</p>
110.0					<p>120</p>
115.0					<p>120</p>
120.0					<p>120</p>

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
120 145					<p>Black Biotite Schist</p> <p>Dry -</p>
150 150					<p>Total Depth 162 -</p> <p>DRY Hole</p>
160 160					<p>Total Depth 162 -</p> <p>DRY Hole</p>
165 165					<p>Total Depth 162 -</p> <p>DRY Hole</p>
170 170					<p>Total Depth 162 -</p> <p>DRY Hole</p>

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			



Test Boring Report

BORING NO. MW-136PAGE 1 OF 3

PROJECT: Auriga Spartanburg, SC
 CLIENT: Celanese North America
 CONTRACTOR: AE Drilling Services
 EQUIPMENT: CME 550

PROJECT NO: 60280417
 LOCATION: _____
 ELEVATION: _____

DATE START: 12-13-13DATE FINISH: 12-13-13DRILLER: BergmanPREPARED BY: Hartford

GROUND WATER		DEPTH TO:		CASING		SAMPLER	CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE		
					NSA	SS	
					44	1.5" w	
					HAMMER WT	140	
					HAMMER FALL	30	

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
					SANDY SILT (ML) moist, reddish brown, mostly silt, some fine sand
5.0		7 5		5	SILTY SAND (SM) medium dense, moist, yellowish brown, mostly fine to medium sand, little silt
		6		6.5	
10.0		5 9 13		10 11.5	WELL GRADED SAND (SW) medium dense, moist, white / gray, mostly fine to coarse sand, trace silt
15.0		4 3 5		15 16.5	SANDY SILT (ML) medium stiff, moist, olive brown, mostly silt, some fine sand
20.0					

34

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0		3 4 6		20 21.5	SANDY SILT (ML) or above
25.0		3 5 7		25 26.5	SANDY SILT
30.0		3 5 6		30 31.5	SANDY SILT (ML) yellowish brown
35.0		3 5 6		35 36.5	SANDY SILT (ML) Stiff, wet, mostly silt, some fine sand 36' - 41" Well Graded SAND ZONE
40.0		6 7 9		40 41.5	SILTY SAND (SM) medium dense, wet, gray to olive brown, mostly fine to medium sand, some silt. 41' - 61" Well Graded SAND WITH GRAVEL ZONE (SH)
45.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0		3 5 9		45 46.5	SALTY SAND (SM) and well Graded Sand with Gravel (SW) wet, gray to olive brown
50.0		5 7 8		50 51.5	WELL GRADED SAND (SW) medium dense, wet, white, mostly fine to coarse sand, trace silt, trace gravel
55.0		8 9 7		55 56.5	WELL GRADED GRAVEL WITH SAND (GW) medium dense, wet, white to olive brown, mostly fine to medium gravel (G12) little fine to medium sand, trace silt
60.0		5 7 7		60 61.5	Same as above
65.0					Total depth <u>61.5</u> Nit Refused
70.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
70.0					<i>Saprolite</i>
75.0					<i>75</i>
80.0					<i>Partially weathered Rock</i>
85.0					<i>87</i>
90.0					<i>Competent Rock Socket 87-89.5</i>
95.0					<i>89.5</i>

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES	
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%	
		31+	HARD				

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
95.0					<u>96</u> Gray Biotite Schist
					- 98.5 Fracture -
100.0					<u>103</u> White / Gray Feldspar Gneiss
					<u>104</u> Biotite Garnet schist. Block
105.0					TO 107.8 ft
110.0					
115.0					
120.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			



Test Boring Report

BORING NO. MW-138
 PAGE 1 OF 3

PROJECT: Auriga Spartanburg, SC
 CLIENT: Celanese North America
 CONTRACTOR: AE Drilling Services
 EQUIPMENT: CME 550

PROJECT NO: 60280417
 LOCATION: _____
 ELEVATION: _____
 DATE START: 12-13-13
 DATE FINISH: 12-13-13
 DRILLER: D. Becaman
 PREPARED BY: Hartford

GROUND WATER		DEPTH TO:			CASING		SAMPLER	CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE			
					HSA	SS		
					SIZE ID	4 1/4	1.5	
					HAMMER WT	140		
					HAMMER FALL	30		

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0		3 4 6		5 6.5	<u>Clayey SAND (SC)</u> Moist, stiff, reddish yellow, mostly fine to medium sand, little clay.
10.0		3 3 5		10 11.5	Same as above except yellow
15.0		2 2 4		15 16.5	<u>SANDY SILT (ML)</u> Soft, moist, olive yellow, mostly silt, some fine sand, well graded sand (SW) white 16.3-16.5 -SAPROLITE
20.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0		4 3 6		20 21.5	Well Graded Sand (SW) 20-20.2 SANDY SILT (ML) Stiff, wet, mostly silt, some fine sand
25.0		6 6 9		25 26.5	SILTY SAND (SM) medium dense, wet, mostly fine sand, Some silt yellowish brown
30.0		3 5 6		30 31.5	SILTY SAND (SM) medium dense, wet, yellowish brown, mostly fine sand, some silt.
35.0		3 13 30		35 36.5	WELL GRADED SAND WITH GRAVEL (SW) VERY DENSE, wet, white, mostly fine to coarse sand, little gravel
40.0		7 8 7		40 41.5	Same as above
45.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0		4 6 11		45 46.5	SILTY SAND (SM) Medium dense, wet, brownish yellow, mostly fine sand, some silt
50.0		6 4 7		50 51.5	SANDY SILT (ML) Stiff, wet, mostly silt, some fine sand olive brown
55.0		3 5 19		55 56.5	same as above - very stiff
60.0		8 8 9		60 61.5	SILTY SAND (SM) Medium dense, wet, mostly fine sand, some silt. 1" well graded sand
65.0					Not Refused
70.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS	SPLIT SPOON	MOSTLY 50-100% WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST	SHELBY TUBE	SOME 30-45% NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G	GRAB SAMPLE	LITTLE 15-25% UR NOT READ
31-50	DENSE	9-15	STIFF	MC	MACRO-CORE	FEW 5-10% NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF			TRACE <5%
		31+	HARD			

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
70.0					Partially weathered Rock
75.0					Competent Rock Sucklet 81.5-84
80.0					Alternating Competent schist to partially weathered Pegmatite. White, Gray, Brown Quartz, Feldspar, muscovite
85.0					Biotite schist Brown to black Fracture
90.0					
95.0					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLER ID.	DESCRIPTIONS	NOTES
0-4	VERY LOOSE	0-2	VERY SOFT	SS SPLIT SPOON	MOSTLY 50-100%	WD WHILE DRILLING
5-10	LOOSE	3-4	SOFT	ST SHELBY TUBE	SOME 30-45%	NE NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	G GRAB SAMPLE	LITTLE 15-25%	UR NOT READ
31-50	DENSE	9-15	STIFF	MC MACRO-CORE	FEW 5-10%	NR NO RECOVERY
50+	VERY DENSE	16-30	VERY STIFF		TRACE <5%	
		31+	HARD			

