From: Lawson, Charles <Charles.Lawson@arcadis.com>
Sent: Monday, April 4, 2022 5:57 PM
To: Hornosky, Tim <hornostr@dhec.sc.gov>
Cc: Hirshenson, Edward <Edward.Hirshenson@arcadis.com>
Subject: RE: Additional Borings at Area #3

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\* Mr. Hornosky

I made some minor edits to the Phase III Work Plan for the Brenntag site in Charleston, SC. My apologies for the confusion and edited the workplan to reflect soil samples from two borings (#45 and #46), soils will be collected from the borings and from waste drum, and figure was edited to rename a boring number to #43. Please let us know if you have any questions. Thank you.

Charles Lawson [PG] Project Scientist <u>Charles.lawson@arcadis.com</u> Arcadis U.S., Inc. 1450 Greene Street Suite 220 Augusta, Ga 30901 USA T=706-828-4421 M=803-215-3034 Professional Geologist PG-GA, 1765/PG-SC, 2360



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Mr. Tim Hornosky State Remediation Section SC Department of Health & Environmental Control 2600 Bull Street Columbia, SC 29201-1708

<sup>Subject:</sup> Work Plan for Area #3\_Revision 1 Brenntag Southeast, Charleston, South Carolina

Dear Mr. Hornosky:

Brenntag Southeast, Inc. has authorized ARCADIS U.S., Inc. to develop a workplan to conduct additional geoprobe investigation of soils and groundwater at Area #3. Arcadis compiled the data from the geoprobe investigation conducted on July 29, 2021 and during the generation of Remedial Work Plan for Area #3 it was noted there exists data gaps in the vicinity of the Brenntag office. The geoprobe investigation conducted in 2021 at Area #3 indicated high concentrations of volatile organic compounds (VOCs) east and west of the Brenntag office building. Analyzing the data indicated lateral VOCs gaps which needs to be closed to get a better understanding of the plume originating from Area #3. These additional borings should indicate if there are two different hot spot plumes or one continuous plume originating at the Former Railroad Loading/Unloading Area. The following task is listed below:

## Task 1. Phase III Soil/Groundwater Sampling at Area #3 (Former Railroad Tracks)

The phase III soil/groundwater sampling will include the collection of the following:

 Collection of approximately 10 borings will be installed in which groundwater samples will be collected from 7-10 feet below land surface (ft bls) and 17-20 ft bls. Groundwater samples will be analyzed for VOCs using EPA Method 8260. Arcadis U.S., Inc. 1450 Greene Street Suite 220 Augusta Georgia 30901-5201 Tel 706 828 4421 Fax 706 828 4722 www.arcadis.com

ENVIRONMENT

Date: 4 April 2022

<sup>Contact:</sup> Edward Hirshenson

Phone: 706.828.4421

Email: Edward.hirshenson@arcadis .com

Our ref: 30122070

- Soil samples from depths of 17-20 ft bls will be collected from 2 borings (#45 and #46) to conduct field screening for the presence of dense non-aqueous phase liquid (DNAPL). A field screening test kit Oil-In-Soil <sup>™</sup> which is a rapid qualitative sampling kit will be utilized for the presence of DNAPL.
- A soil sample will be collected within the hot zone at a depth of approximately 4-5 ft bls and from 55-gallon soil drum analyzed for Toxicity Characteristic Leaching Procedure (TCLP) for waste characterization.

Location of Phase III borings are included as Figure 1. Excessive soils and soil liners will be contained in a 55- gallon drum and staged on site for proper disposal. Purged water will also be placed in 55-gallon drum and staged onsite for disposal. Upon completion of all 10 borings, all boreholes will be grouted to land surface.

Please call me at (706) 828-4421 if you have any questions.

Sincerely,

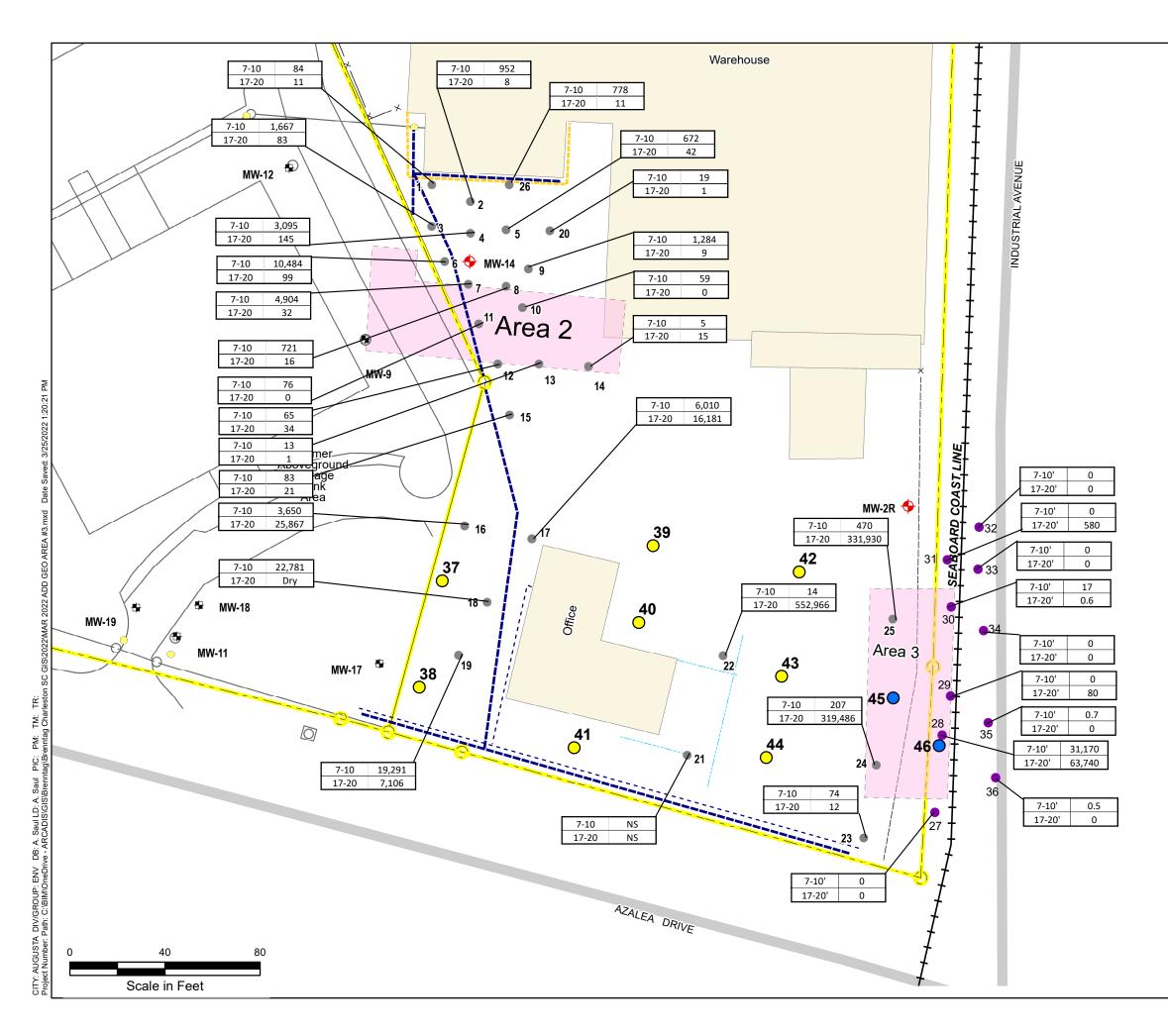
Arcadis U.S., Inc.

Edward Hindans

Edward Hirshenson Senior Scientist

Copies:

- Mr. Shawn Wiram/North America/Brenntag
- Mr. Mike Muthig IPGX
- Mr. Steve Burris BES
- Mr. Wilson Jones BES
- Mr. Ben Hagood Bird Furniture



Legend
Existing Monitor Well
Offsite Monitor Well
📐 Surface Water Sample
<ul> <li>Sewer Manhole</li> </ul>
<ul> <li>Catch Basin</li> </ul>
Property Line
——— Bird Company Property
Former Structure
Approximate Water line
Approximate Storm Drain
Approximate Underground Utilities
Approximate Gas Line
Depth in Feet 7-10 1,098 17-20 31 Chloroinated Solvent Concentration (µg/L) Collected Nov 2020
<ul> <li>Borings A2-1 Through A2-26 conducted in November 2020</li> </ul>
<ul> <li>Borings A2-27 Through A2-36 conducted in July 2021</li> </ul>
Proposed Groundwater Sample Location
Proposed Soil and Groundwater Sample Location

BRENNTAG SOUTHEAST CHARLESTON, SOUTH CAROLINA

PHASE III ADDITIONAL GEOPROBE WORK, AREA #3



