50583

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SCANNED

April 26, 2022

Ms. Kim Kuhn
State Voluntary Cleanup Section
SCDHEC – BLWM
2600 Bull Street
Columbia, SC 29201
kuhnkm@dhec.sc.gov

RE: Burn Pit Investigation Report
(HRP # ASC7031.RA)
Ascend Performance Materials Operations, LLC/Former Solutia Facility
1515 Highway 246 South
Greenwood, SC 29646

Dear Ms. Kuhn:

On behalf of Ascend Performance Materials Operations, LLC (Ascend), HRP Associates, Inc. (HRP) presents the following Burn Pit Investigation Report with regard to the above referenced Site.

Please do not hesitate to contact me at (800) 752-3922 if you have any questions regarding the content of this report or ongoing site activities. Thank you for your time and have a good day.

Sincerely,
HRP Associates, Inc.

Daniel E. McDonnell, P.G.
Senior Project Manager

Enclosure

cc: Diane Sackmann (Ascend)
Justin Harris (Ascend)
Lucas Berresford (SCDHEC)

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MAY 03 2022
SITE ASSESSMENT, REMEDIATION, & REVITALIZATION

144

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BURN PIT INVESTIGATION REPORT

Ascend/Solutia/Monsanto Facility

1515 Highway 246 South

Greenwood, SC 29646

Prepared For:

Ascend Performance Materials Operations, LLC
c/o: Diane Sackmann
1515 Highway 246 South
Greenwood, SC 29646

Prepared By:

HRP Associates, Inc.
1327 Miller Road, Suite D
Greenville, SC 29607

HRP #: ASC7031.RA

Issued On: April 26, 2022

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HRP

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General Information

Project/Site Information:

Ascend/Solutia/Monsanto Site
1515 Highway 246 South
Greenwood, SC 29646

Consultant Information:

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1327 Miller Road, Suite D
Greenville, SC 29607
Phone: 864-289-0311
Fax: 864-281-9846
E-mail: DEM@hrpassociates.com
Project Number: ASC7031.RA

Client Information:

Diane Sackmann
Ascend Performance Materials Operations LLC
1515 Highway 246 South
Greenwood, SC 29646

Report Author:

Samuel Muller
Senior Consultant

Report Review:

Daniel E. McDonnell, P.G.
Senior Project Manager

1.0 INTRODUCTION

On behalf of Ascend Performance Materials Operations, LLC (Ascend), HRP Associates, Inc. (HRP) has prepared this Burn Pit Investigation Report in accordance with the Pre-Focused Feasibility Study Investigation Work Plan submitted to South Carolina Department of Health and Environmental Control (SCDHEC) on October 29, 2021. This work plan was approved by SCDHEC on November 9, 2021. The purpose of this investigation was to delineate the source area to refine volume estimates presented in the *Focused Feasibility Study.* Geochemical data was also collected to aid in the selection of in-situ treatment remedies.

1.1 Background

The Ascend Greenwood facility is located at 1515 Highway 246 South in Greenwood, Greenwood County, South Carolina and is centered at North 34° 13' 54.69" latitude and West 82° 03' 09.12" longitude. The Site is approximately 573 feet above sea level and identified by County of Greenwood to include Tax Map Serial Numbers 6887-203-437, 6887-158-470, 6887-275-615, and 6887-183-460. The Site location is depicted on **Figure 1**.

The 406.8-acre Site was purchased by Ascend in June 2009 from Solutia Inc., a sister company of Monsanto Chemical Company. The Site was originally developed by Monsanto Chemical Company in September 1960 and has historically manufactured Bulk Continuous Filament (BCF), Industrial Fibers, and Polymer Flake.

The former burn pit area is located north-northwest of the main manufacturing building. Volatile Organic Compounds (VOCs) were first detected in groundwater within the BP area during a voluntary environmental assessment conducted by Monsanto in 1984. A network of observation wells and piezometers were installed to monitor groundwater impacts in this area. Additionally, two groundwater extraction wells (EW-04D and EW-32S) were installed to obtain hydraulic control of constituent migration in the BP area. VOCs detected in BP groundwater include PCE, TCE, DCE, chloroform, TCA, 1,1,2-TCA, DCA, and 1,4-dioxane. A passive soil gas survey was conducted in the Burn Pit in 2020. 48 passive soil gas samplers were installed in a uniform grid throughout the Burn Pit. Results from this survey indicated that the Burn Pit source area was likely located north of where it had been historically reported.

Routine groundwater monitoring has historically been performed semi-annually at eighteen observation wells, extraction wells, and piezometers, collectively, and at two North Creek surface water stations. A map of monitoring locations within the Burn Pit is presented as **Figure 2**.

2.0 METHODS

Twenty direct-push borings were advanced in the Burn Pit area on February 14-16, 2022. Prior to boring advancement, utilities within the Burn Pit area were located using ground-penetrating radar. Borings were advanced by Jeff Grant of JG Drilling (Certification #2105). The first boring was advanced in the assumed center of the source area based upon the aforementioned soil gas survey results. Continuous soil cores were collected from ground surface to at least the water table at each location. Soils were screened for organic vapors with a photoionization detector at two-foot intervals. Subsequent borings were then advanced in each cardinal direction until vapor screening results indicated the limits of the source area. Boring locations are depicted on **Figure 3**, and boring logs are presented in **Appendix A**.

Soil samples were collected at select intervals based on vapor screening results. Samples were collected at multiple depths from borings with relatively higher vapor concentrations to provide vertical delineation of the source area. Soil samples were analyzed for volatile organic compounds (VOCs) via EPA method 8260.

Five borings were converted to temporary monitoring wells to determine biogeochemical conditions within the source area. Each monitoring well was installed to a total depth of 30 feet below ground surface (bgs) and consisted of 1" diameter PVC with a screened interval of 20-30 feet bgs. Monitoring well completion logs are provided in **Appendix B**. Each temporary monitoring well was purged with a peristaltic pump using low-flow techniques until stabilization criteria were met. Values for dissolved oxygen, pH, specific conductance, temperature, and oxidation-reduction potential were recorded prior to sample collection. Groundwater sampling logs are provided in **Appendix C**. Groundwater samples were collected and submitted to a South Carolina certified laboratory for the following parameters:

- VOCs via EPA method 8260;
- Nitrate, sulfate, and chloride via EPA method 300.0; and
- Dissolved iron and manganese via EPA method 6010.

Additional samples were collected and analyzed for heterotrophic plate count to determine baseline microbial concentrations prior to treatment.

Each direct push boring location was recorded using a GPS with sub-meter accuracy. DPT boreholes were abandoned within five days of installation in accordance with South Carolina Well Standards and Regulations R. 61-71.

3.0 RESULTS

3.1 Site Geology

Boring logs from this investigation (presented in **Appendix A**) indicate the geology beneath the Site consists of surficial regolith soils underlain by saprolite. The surficial soils range in depth from 16 to 22 feet below ground surface and consist of red-brown to tan silt with trace sand. Clay content of surficial soils decreased with depth, and a surficial layer of clayey silt of four to eight feet in thickness was present throughout the investigation area. The saprolite consists of weathered granite bedrock, with decreased weathering with depth. The saprolite consists of grey silt with varying amounts of medium to coarse sand. 6" to 2' zones of sand within the saprolite are interpreted to be weathered fracture zones from within the bedrock. No debris or refuse was encountered in any of the borings.

Organic vapor detections ranged from 0 to 22.4 ppm. The highest organic vapor detections (a peak of 22.4 ppm) were observed at soil borings SB-12 and SB-13 at depths near the water table. Organic vapors generally were not detected in the surficial clayey silt layer. Depth to groundwater was 20 to 22 feet during this assessment.

Lines of cross-section are shown on **Figure 3**, and geologic cross-sections of the Burn Pit are presented as **Figures 4 and 5**.

3.2 Soil Analytical Results

A total of 19 soil samples were submitted under chain-of-custody to a SC-certified laboratory (Pace Analytical Services, Huntersville, NC) and analyzed for VOCs via EPA Method 8260. Analytical data from the soil samples were compared to the Environmental Protection Agency (EPA) Risk-Based Protection of Groundwater Soil Screening Levels (SSLs).

Table 1 provides a comprehensive tabulated summary of the constituents detected above their laboratory detection limit in each soil sample, while **Figure 6** presents soil detections above screening levels. Constituent concentrations observed above screening levels are as follows:

- Tetrachloroethylene (PCE): PCE was detected above the SSL of 5.1 µg/kg in six soil samples. A maximum concentration of 463 µg/kg was observed in the sample collected 22 feet bgs at SB-13.

- Trichloroethylene (TCE): TCE was detected above the SSL of 0.18 µg/kg in six soil samples. A maximum concentration of 1640 µg/kg was observed in the sample collected 22 feet bgs at SB-13.

- Ethylbenzene: Ethylbenzene was detected above the SSL of 5.1 µg/kg in one soil sample. A maximum concentration of 463 µg/kg was observed in the sample collected 24 feet bgs at SB-9.

- Xylenes (total): Xylenes were detected above the SSL of 1.7 µg/kg in two soil samples. A maximum concentration of 87.2 µg/kg was observed in the soil sample collected at 24 feet bgs at SB-9.

The laboratory analytical report is presented in **Appendix D**.

3.3 Groundwater Analytical Results

A total of five groundwater samples were submitted under chain-of-custody to a SC-certified laboratory (Pace Analytical Services, Huntersville, NC) and analyzed for VOCs via EPA Method 8260.

Analytical data from groundwater samples were compared to EPA Maximum Contaminant Limits (MCLs). **Table 2** provides a comprehensive tabulated summary of the constituents detected above their laboratory detection limit in each groundwater sample. Constituent concentrations observed above MCLs are as follows:

- 1,1-Dichloroethylene (1,1-DCE): 1,1-DCE was detected above the MCL of 7 µg/L in four groundwater samples. A maximum concentration of 161 µg/L was observed at SB-12.
- PCE: PCE was detected above the MCL of 5 µg/L in each of the five groundwater samples. A maximum concentration of 1930 µg/L was observed at SB-12.
- 1,1,1-Trichloroethane (1,1,1-TCA): 1,1,1-TCA was detected above the MCL of 200 µg/L in one groundwater sample. A maximum concentration of 744 µg/L was observed at SB-12.
- TCE: TCE was detected above the MCL of 5 µg/L in each of the five groundwater samples. A maximum concentration of 9920 µg/L was observed at SB-12.

Figure 7 shows a summary of groundwater detections, and **Figure 8** shows the estimated limits of the burn pit source area in plan view. The laboratory analytical report is presented in **Appendix D**.

3.4 Geochemical Parameters

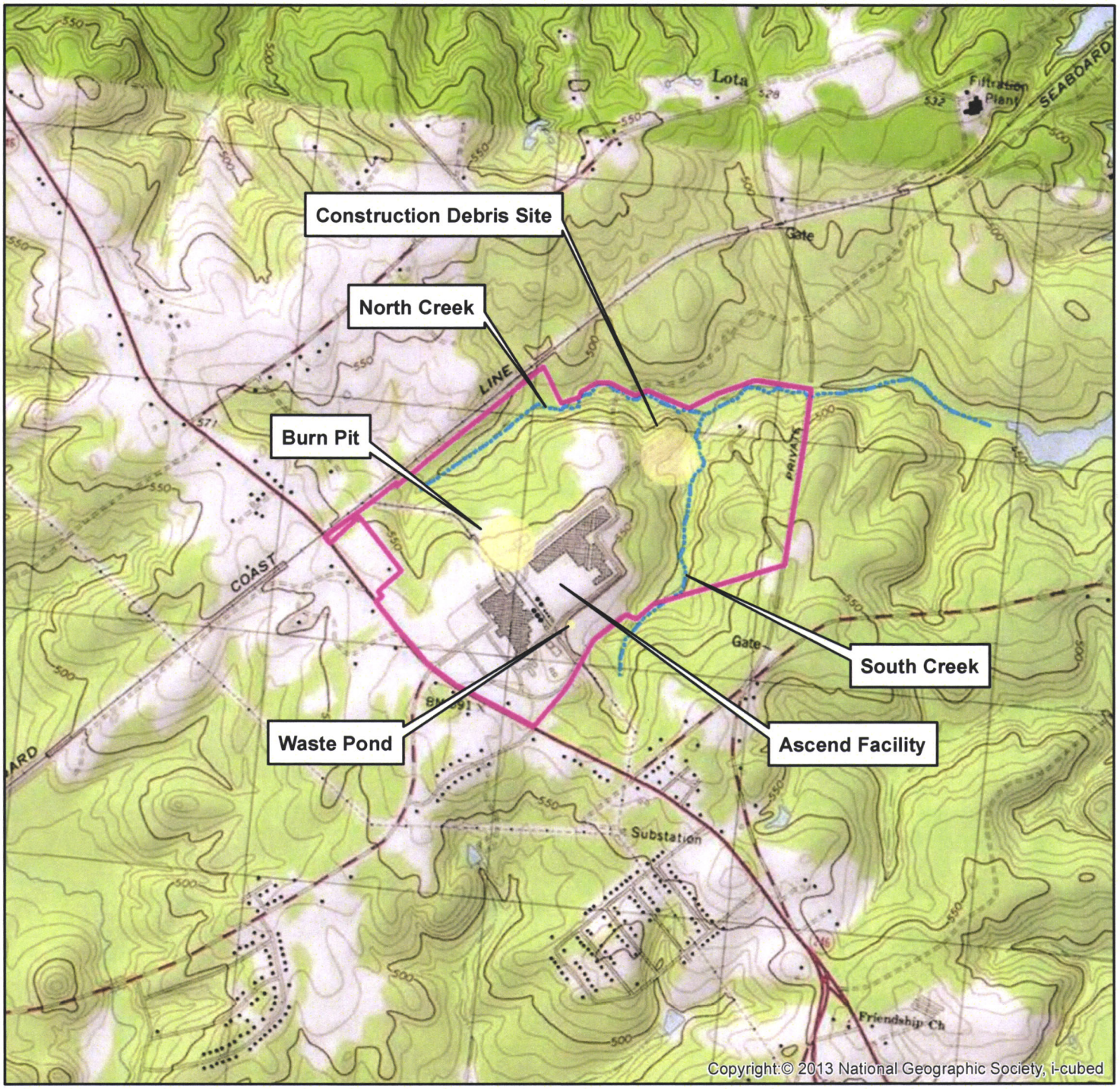
Table 3 provides a tabulated summary of geochemical parameters for each groundwater sample. These data, along with VOC detections in soil and groundwater, will be shared with in-situ treatment providers to determine the most effective treatment strategies for the burn pit source area.

4.0 CONCLUSIONS

The source area of chlorinated solvent impacts to the burn pit area was delineated during this assessment. Maximum soil and groundwater concentrations of TCE and PCE were observed at boring locations SB-12 and SB-13. The limits of the source area were confirmed with soil vapor screening and laboratory analytical results. Based on the estimated source area limits shown in **Figures 4, 5, and 8**, the source area consists of approximately 4,000 to 5,000 cubic yards of soil impacted by chlorinated solvents at concentrations above the Protection of Groundwater soil screening levels. This source area is overlain by six to ten feet of non-impacted clay-rich soil.

The results of this investigation will be incorporated into a revised Focused Feasibility Study for remediation of the Burn Pit area. The data presented here will allow for more informed estimates for source area removal and will be shared with in-situ treatment providers to determine potential remedies for the Burn Pit.

FIGURES



0 1,000 2,000 4,000 6,000 8,000

Feet

1 inch = 2,000 feet

N

USGS Quadrangle Information
Quad ID: 34082-B1
Name: Ninety Six, South Carolina
Date Rev: 1975
Date Pub: 1979

Figure 1
Site Location
Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina
HRP# ASC7000.RA
Scale 1" = 2,000'

HRP
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1327 MILLER ROAD
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GREENVILLE, SC 29607
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Path: H:\A\Ascend Performance Materials\ASC7000.RA - RIWP. GW Assessment\RIWP 2016\Figures\Figure 1 - Site Location.mxd

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North

0 250 Feet
Approximate Scale

Revisions					
No.					
Date					

Designed By:	Drawn By:	Reviewed By:
SLM	SLM	DEM

Issue Date:	Project No:	Sheet Size:
4/6/2022	ASC7005.GW	11x17

Site Plan

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.
2

Path: C:\GIS\Ascend Performance Materials\FFS\Figure 2 - Site Plan.mxd

Legend

- Soil Boring/Temporary Monitoring Well
- Soil Borings
- Monitoring Wells
- Lines of Cross-Section

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North

0 40 Feet

Approximate Scale

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No.	Date					

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SLM	SLM	DEM

Issue Date:	Project No:	Sheet Size:
3/23/2022	ASC7005.RA	11x17

Burn Pit
Boring Locations

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

3

Path: C:\GIS\Ascend Performance Materials\FFS\Figure 3- Burn Pit Borings.mxd

SOUTH
A

NORTH
A'

LEGEND

-TEMPORARY WELL SCREENED INTERVAL

-RED-BROWN CLAYEY SILT

-RED-BROWN TO TAN SILT W/TRACE SAND

-GRAY-TAN SILT/SANDY SILT

-WATER TABLE

-LIMITS OF CHLORINATED VOC IMPACTS

[9.2] -PCE SOIL CONCENTRATION (µg/kg)

(431) -TCE SOIL CONCENTRATION (µg/kg)

SB-10 SB-11 SB-12 SB-13 SB-14 SB-20

550' 545' 540' 535' 530' 525' 520' 515' 510'

[ND] (ND) [ND] (ND) [13.2] (42.0) [91.3] (431) [ND] (ND) [16.5] (95.5) [8.4] (181.3) [463] (1640)

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0 2.5' 5'
VERT: 1" = 5'

0 10' 20'
HORIZ: 1" = 20'

REVISIONS

NO.	DATE

DESIGNED BY: SLM
DRAWN BY: BOB
REVIEWED BY: DM

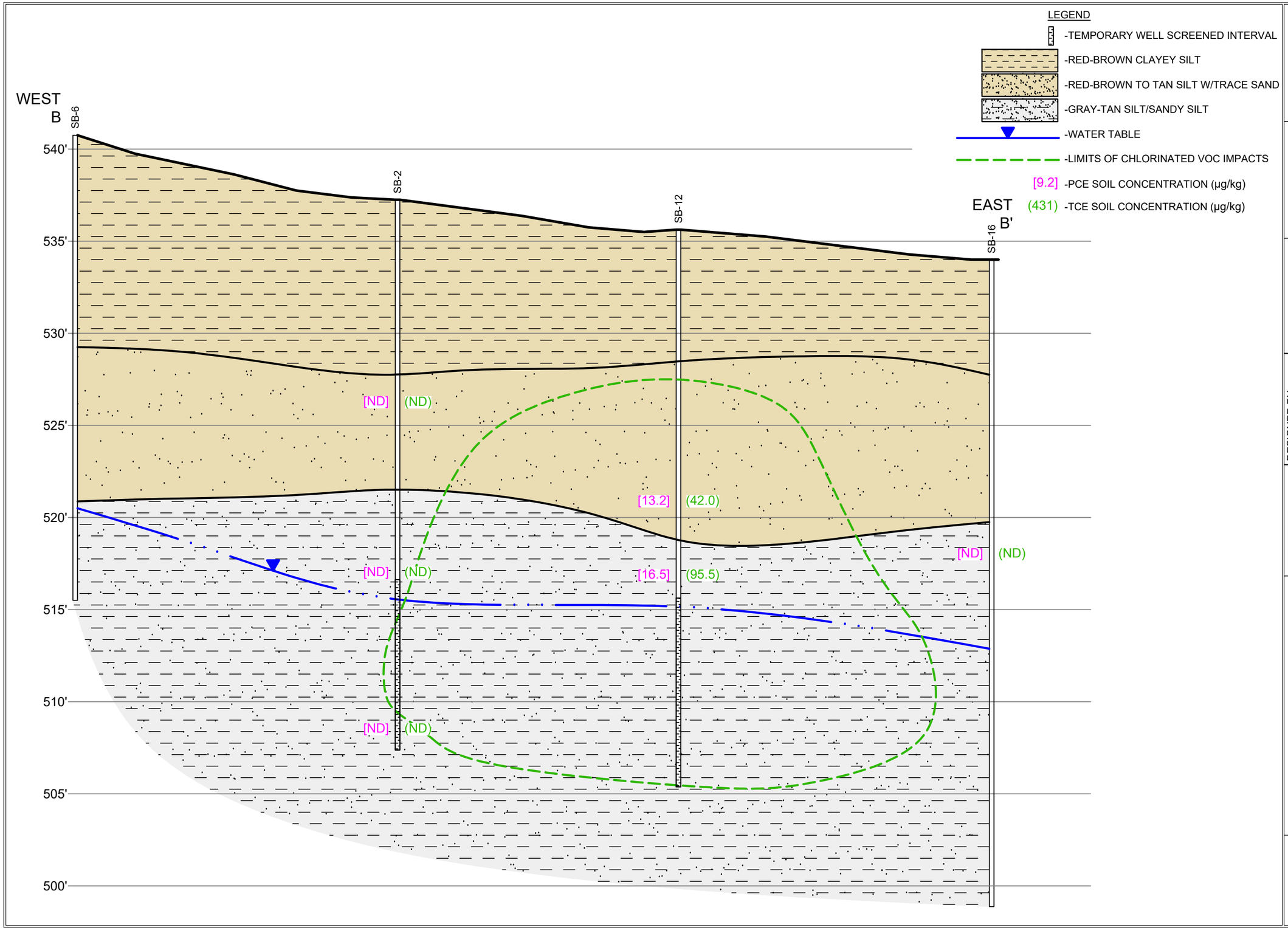
ISSUE DATE: 03/31/2022
PROJECT NUMBER: ASC7031.RA
SHEET SIZE: 11"x17"

CROSS SECTION A-A'

ASCEND PERFORMANCE MATERIALS
OPERATIONS LLC
FORMER SOLUTIA FACILITY
1515 HIGHWAY 246 SOUTH
GREENWOOD, SOUTH CAROLINA

FIGURE NO.
4

DRAWING NAME: H:\A\Ascend Performance Materials\ASC7031.RA - Burn Pit Investigation\Figures\Cross Sections.dwg LAYOUT: CROSS SECTION A-A PLOT DATE: Apr 08, 2022 - 12:30pm OPERATOR: BOB



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0 2.5' 5'
VERT: 1" = 5'

0 10' 20'
HORIZ: 1" = 20'

REVISIONS

NO.	DATE

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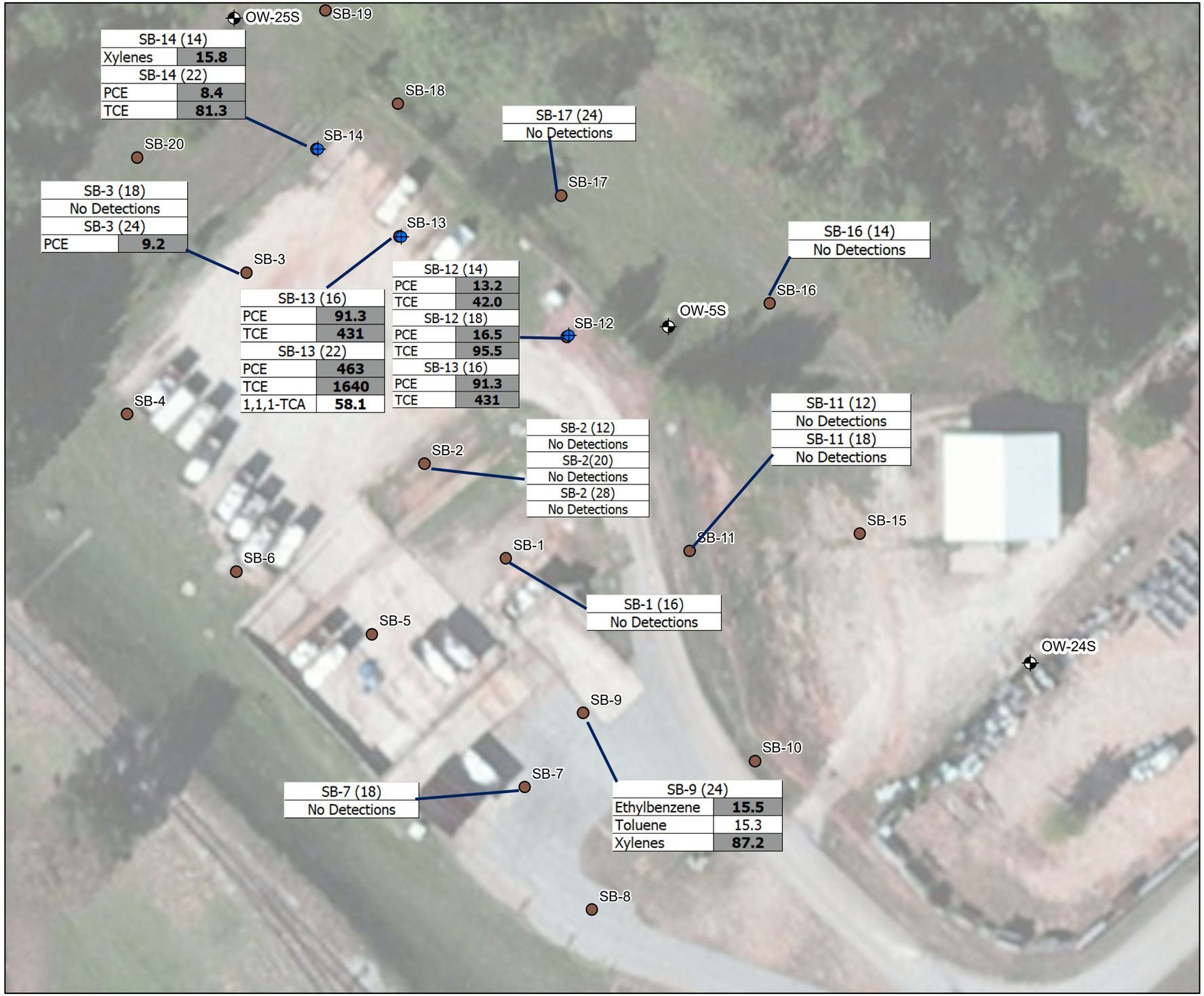
DRAWN BY: BOB
REVIEWED BY: DM

ISSUE DATE: 03/31/2022
PROJECT NUMBER: ASC7031.RA
SHEET SIZE: 11"x17"

CROSS SECTION B-B'

ASCEND PERFORMANCE MATERIALS
OPERATIONS LLC
FORMER SOLUTIA FACILITY
1515 HIGHWAY 246 SOUTH
GREENWOOD, SOUTH CAROLINA

FIGURE NO.
5



Legend

- Soil Boring/Temporary Monitoring Well
- Soil Boring
- Monitoring Wells

Note: Concentrations shown in µg/kg. Shaded values indicate exceedances of EPA Protection of Groundwater SSLs.

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North

0 40 Feet

Approximate Scale

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Designed By: SLM	Drawn By: SLM	Reviewed By: DEM
Issue Date: 3/23/2022	Project No: ASC7005.RA	Sheet Size: 11x17

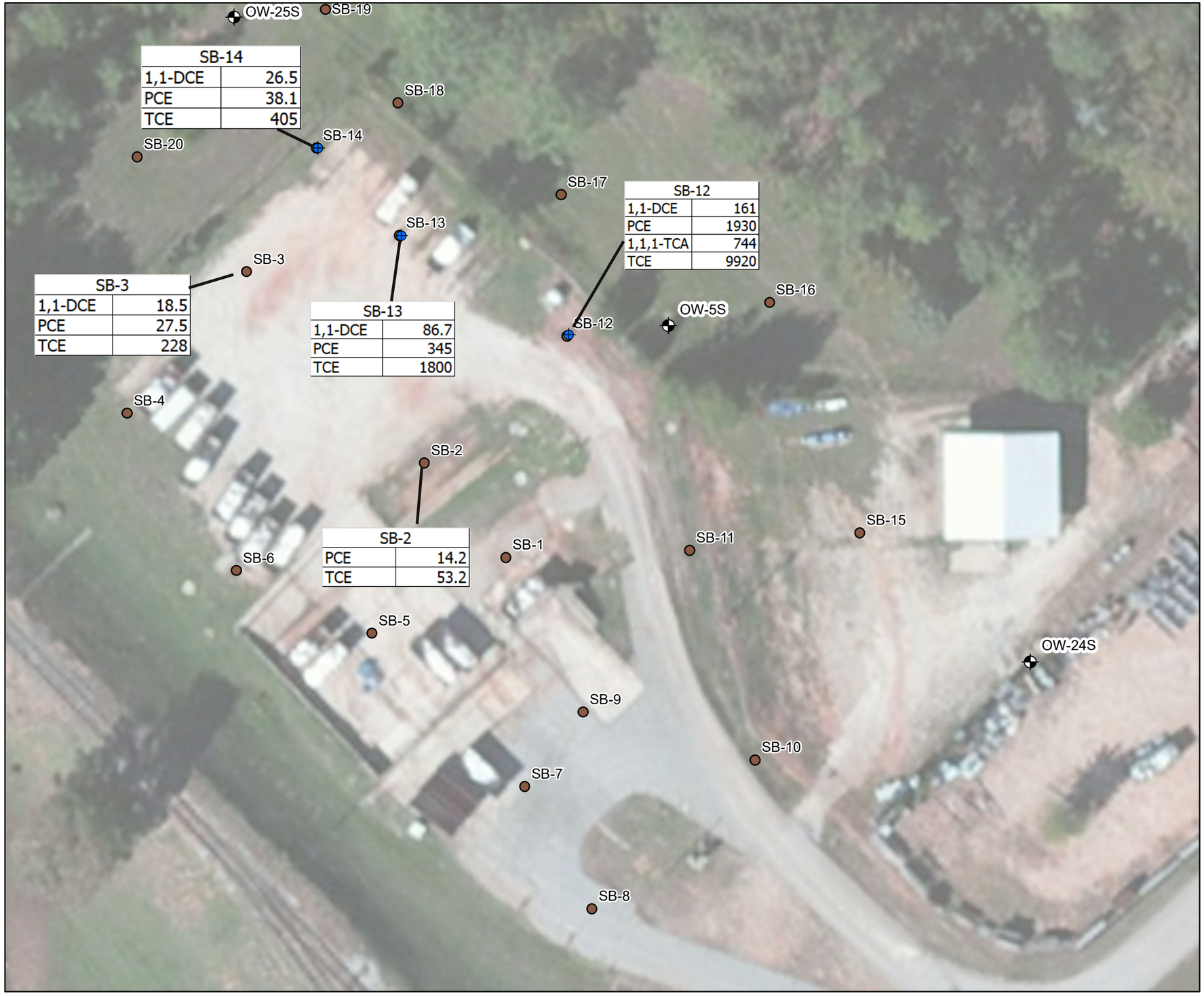
Burn Pit Soil Constituents of Concern

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

6

Path: C:\GIS\Ascend Performance Materials\FFS\Figure 7- GW COC.mxd



Note: Concentrations shown in µg/L. Only MCL exceedances are shown.

Legend

- Soil Boring/Temporary Monitoring Well
- Soil Borings
- Monitoring Wells

North

0 40 Feet

Approximate Scale

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Revisions						
No.						
Date						

Designed By: SLM	Drawn By: SLM	Reviewed By: DEM
Issue Date: 3/23/2022	Project No: ASC7005.RA	Sheet Size: 11x17

Burn Pit Groundwater Constituents of Concern

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

7

Path: C:\GIS\Ascend Performance Materials\FFS\Figure 6- Soil COC.mxd

Legend

- Soil Boring/Temporary Monitoring Well
- Soil Borings
- Monitoring Wells
- Lines of Cross-Section
- Approximate Limits of Source Area

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SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 40 Feet

Approximate Scale

Revisions						
No.						
Date						

Designed By:	Drawn By:	Reviewed By:
SLM	SLM	DEM

Issue Date:	Project No:	Sheet Size:
3/23/2022	ASC7005.RA	11x17

Approximate Limits of Burn Pit Source Area

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

8

Path: C:\GIS\Ascend Performance Materials\FFS\Figure 8- BP Source Are.mxd

TABLES

TABLE 1
Soil Analytical Results
Ascend Performance Materials
Greenwood, SC

Sample ID	Date	Depth (ft bgs)	PCE	TCE	Ethyl-benzene	Toluene	Xylene (total)	1,1,1-TCA
EPA SSL (µg/kg)[1]			5.1	0.18	1.7	760	1.7	2,800
			Sample Results (µg/kg)					
SB-1 (16)	2/14/2022	16	<6.1	<6.1	<6.1	<6.1	<12.3	<6.1
SB-2 (12)	2/14/2022	12	<9.3	<9.3	<9.3	<9.3	<18.6	<9.3
SB-2 (20)	2/14/2022	20	<8.1	<8.1	<8.1	<8.1	<16.1	<8.1
SB-2 (28)	2/14/2022	28	<7.0	<7.0	<7.0	<7.0	<14.0	<7.0
SB-3 (18)	2/14/2022	18	<6.9	<6.9	<6.9	<6.9	<13.7	<6.9
SB-3 (24)	2/14/2022	24	**9.2**	<5.5	<5.5	<5.5	<11.0	<5.5
SB-5 (18)	2/14/2022	18	<8.3	<8.3	<8.3	<8.3	<16.5	<8.3
SB-7 (18)	2/15/2022	18	<7.8	<7.8	<7.8	<7.8	<15.7	<7.8
SB-9 (24)	2/15/2022	24	<10	<10	**15.5**	**15.3**	**87.2**	<10
SB-11 (12)	2/15/2022	12	<9.5	<9.5	<9.5	<9.5	<19.0	<9.5
SB-11 (18)	2/15/2022	18	<9.2	<9.2	<9.2	<9.2	<18.3	<9.2
SB-12 (14)	2/15/2022	14	**13.2**	**42.0**	<10.8	<10.8	<21.6	<10.8
SB-12 (18)	2/15/2022	18	**16.5**	**95.5**	<9.1	<9.1	<18.2	<9.1
SB-13 (16)	2/15/2022	16	**91.3**	**431**	<8.4	<8.4	<16.7	<8.4
SB-13 (22)	2/15/2022	22	**463**	**1640**	<9.6	<9.6	<19.3	**58.1**
SB-14 (14)	2/15/2022	14	<7.5	<7.5	<7.5	<7.5	**15.8**	<7.5
SB-14 (22)	2/15/2022	22	**8.4**	**81.3**	<6.3	<6.3	<12.6	<6.3
SB-16 (14)	2/16/2022	14	<10.5	<10.5	<10.5	<10.5	<21.0	<10.5
SB-17 (24)	2/16/2022	24	<8.3	<8.3	<8.3	<8.3	<16.5	<8.3

Screening levels obtained from the EPA Regional Screening Level Summary Table (May 2021, THQ=0.1).

[1] Risk-Based Protection of Groundwater Soil Screening Level (SSL)

Grey shaded values exceed the SSL.

NE - SSL not established

TABLE 2
Groundwater Analytical Results
Ascend Performance Materials
Greenwood, SC

Sample ID	Date	Chloro-form	1,2-DCB	1,1-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	TCE
EPA MCL (µg/L)		8	NE	NE	7	70	5	200	5
		Sample Results (µg/L)							
SB-2	2/15/2022	**1.5**	<1.0	**1.1**	**6.9**	<1.0	**14.2**	<1.0	**53.2**
SB-3	2/15/2022	**2.2**	<2.0	**4.3**	**18.5**	<2.0	**27.5**	<2.0	**228**
SB-12	2/15/2022	<100	**148**	<100	**161**	<100	**1930**	**744**	**9920**
SB-13	2/15/2022	<20.0	<20.0	<20.0	**86.7**	<20.0	**345**	**43.0**	**1800**
SB-14	2/16/2022	**3.5**	<2.5	**4.5**	**26.5**	**3.9**	**38.1**	<2.5	**405**

NOTES:

MCL action levels obtained from the EPA Regional Screening Level Summary Table (May 2021), THQ=0.1

NE - EPA MCL not established

Bold values exceed the laboratory detection limit.

Shaded values exceed the EPA's MCLs.

µg/L - micrograms/liter

DCB - dichlorobenzene

DCA - dichloroethane

DCE - dichloroethylene

PCE - tetrachloroethylene

TCA - trichloroethane

TCE - trichloroethylene

TABLE 3
Geochemical Parameters
Ascend Performance Materials
Greenwood, SC

Sample ID	Date	Chloride	Nitrate	Sulfate	Ferrous Iron	Iron (dissolved)	Manganese (dissolved)	HPC	DO	pH	ORP
Units		mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	MPN/mL	mg/L	S.U.	mV
SB-2	2/15/2022	16.1	2.1	14.4	1.0	1090	1110	>738	2.1	6.05	-168.6
SB-3	2/15/2022	27.7	3.2	1.8	1.0	1890	1960	>738	3.3	5.74	-93.8
SB-12	2/15/2022	5.5	2.3	<1.0	0.5	621	483	>738	1.4	5.26	-28.5
SB-13	2/15/2022	12.1	1.6	12.3	<0.5	272	208	72.5	3.8	5.77	-44.4
SB-14	2/16/2022	14.8	1.8	1.2	1.0	974	863	31.5	3.2	5.68	-109.1

Notes:

HPC: heterotrophic plate count

D.O.: dissolved oxygen

ORP: oxidation/reduction potential

MPN/mL: most probable number per milliliter

APPENDIX A
Boring Logs

Project: MSCEND BURN PIT	HRP	Test Boring/Monitor Well ID: SB-1
Location: GREENWOOD, SC	DRILLING/SOIL LOG	
HRP# ASC7031.RA	Rig Type: G-P 6712	Sheet No. 1 of 1
Date: 3-19-22	Hammer (weight [lb] / fall [inches])	Driller:
HRP Rep. SLM		
Ground Elevation:	PROPORTIONS	
Total Boring Depth: 20.8 FT	trace: 0 to 10% some: 20 to 35%	
Depth to Bedrock: 20.8 FT	little: 10 to 20% and: 35 to 50%	

	Casing	Sampler	Core Barrel
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		5	D	ML	0-4	RED-BROWN CLAYEY SILT, T. FINE SAND. NC ODOR.	2	0.5		
								4	1.2		
5	9		3	D	ML	4-8.5	GRAY/TAN SILT, TRACE FINE SAND. DRY, NO ODOR.	6	1.0		
9	13		3	D				8	0.5		
								10	0.6		
13	17		3	D/M		8.5-15	GREY SILT, TRACE FINE SAND. SLIGHT CHLOR. ODOR	12	0.7		
								14	0.5		
17	20.8		2.5	D		15-19	GREY FINE-MEDIUM SAND, TRACE SILT. SLIGHT CHLOR. ODOR. MOIST AT 17'	16	1.1	16	SB-1(16) 3-19-22 1047
								18	0.8		
						19-20.8	GREY FINE TO V. COARSE SAND, TRACE CLAY. DRY.	20	1.0		
							REFUSAL AT 20.8' NO WATER ENCOUNTERED.				

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density # Blows/ft		Cohesive Consistence # Blows/ft	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: ASCEND BURN PIT	HRP	Test Boring/Monitor Well ID: SB-2	
Location: GREENWOOD, SC	DRILLING/SOIL LOG		
HRP#: ASC 7031.RA	Rig Type: G-P 6712.	Sheet No. 1 of 1	
Date: 2-14-22	Hammer (weight [lb] / fall [inches])	Driller: JEFF GRANT	
HRP Rep.: SLM			
Ground Elevation:	PROPORTIONS	Casing / Sampler / Core Barrel	
Total Boring Depth: 28'	trace: 0 to 10% some: 20 to 35%	Type	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	O.D. (inch)	
		I.D. (inch)	

Sampler Depth interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	4		4	D	ML	0-9	RED-BROWN CLAYEY SILT. NO ODOR.	2	0.0		
								4	0.0		
4	8		4	D	ML	9-11.5	GRAY-BROWN SILT, TRACE FINE SAND. NO ODOR.	6	0.0	12'	SB-2(12) 2-14 1201
8	13		5	D	SM	11.5-15	TAN-GRAY, FINE-MEDIUM SAND, SOME SILT. SLIGHT CHLOR. ODOR.	8	0.0		
								10	0.9		
13	18		5	D				12	5.3	20'	
					CL	15-16	RED-BROWN LEAN CLAY. NO ODOR.	14	1.8		SB-2(20)
18	23		5								2-14,(1216)
					SM	16-30	GRAY-TAN FINE SAND, LITTLE SILT. SOME REL CT, BIOTITE. WET AT 20,5'	16	0.4		
								18	1.1		
23	28		3					20	2.8		
							SET 1" TEMP. WELL TO 30' TD, SCREEN 20-30. DTW: 21.18	22	0.4		SB-2(28)
								24	0		2-14, 1229
								26	0		
								28	0		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)
CL (Lean Clay)
GC (Clayey Gravel)
GM (Silty Gravel)
GP (Poorly Graded Gravel)
GW (Well-Graded Gravel)
MH (Elastic Silt)
ML (Silt)
OH (Organic Clay / Silt of High Plasticity)
OL (Organic Clay / Silt of Low Plasticity)
PT (Highly Organic Soil / Peat)
SC (Clayey Sand)
SM (Silty Sand)
SP (Poorly Graded Sand)
SW (Well-Graded Sand)

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density # Blows/ft		Cohesive Consistence # Blows/ft	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	medium dense	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: ASCEND BURN PIT
Location: GREENWOOD, SC
HRP# ASC703I.RA
Date: 2-14-22
HRP Rep. SLM
Ground Elevation:
Total Boring Depth: 25'
Depth to Bedrock:

HRP
DRILLING/SOIL LOG
Rig Type: G-P 6712
Hammer (weight [lb] / fall [inches])

Test Boring/Monitor Well ID: SB-3
Sheet No. 1 of 1
Driller: JEFF GRANT

	Casing	Sampler	Core Barrel
Type			
O.D. (inch)			
I.D. (inch)			

PROPORTIONS
trace: 0 to 10% some: 20 to 35%
little: 10 to 20% and: 35 to 50%

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)
0	5		4	D	ML	0-10	RED BROWN SILT W. CLAY, TRACE FINE SAND. NO ODOR/ STAINING.
5	10		4	D			
10	15		5	D	ML	10-15	RED-TAN SILT, NO ODOR. SANDY LAYER 16-16.5'
15	20		4.5	D/M			
20	25		4.5	W	SM	15-20	RED-TAN SAND (FINE-COARSE, ANGULAR
					SM	20-25	GREY SAND, FINE-V.COARSE, ANGULAR, T. SILT. NO ODOR. WET AT 21'
							SET TEMP. WELL TO 30' SCREEN 20'-30'

PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
2	0		
4	0		
6	0		
8	0		
10	0.3		
12	0.2		
14	0.5		
16	0.5		
18	0.9		SB-3 (18) 2-H 1319
20	1.3		
22	1.5		
24	0.6		SB-3 (24) 2-H 1328

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE
CH (Fat Clay)
CL (Lean Clay)
GC (Clayey Gravel)
GM (Silty Gravel)
GP (Poorly Graded Gravel)
GW (Well-Graded Gravel)
MH (Elastic Silt)
ML (Silt)
OH (Organic Clay / Silt of High Plasticity)
OL (Organic Clay / Silt of Low Plasticity)
PT (Highly Organic Soil / Peat)
SC (Clayey Sand)
SM (Silty Sand)
SP (Poorly Graded Sand)
SW (Well-Graded Sand)

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density # Blows/ft		Cohesive Consistence # Blows/ft	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: ASLEND BURN PIT	HRP	Test Boring/Monitor Well ID: SB-4	
Location: GREENWOOD, SC.	DRILLING/SOIL LOG		
HRP# ASL708 1.02A	Rig Type: GP 6712	Sheet No. 1 of 1	
Date: 2-14-22	Hammer (weight [lb] / fall [inches])	Driller: JEFF GRANT	
HRP Rep. SLM		Casing / Sampler / Core Barrel	
Ground Elevation:	PROPORTIONS	Type	
Total Boring Depth: 25'	trace: 0 to 10% some: 20 to 35%	O.D. (inch)	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	I.D. (inch)	

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		5	D	ML	0-14	RED-BROWN CLAYEY SILT. NO ODOR / STAIN.	2	0		
								4	0		
5	10		5	D	~~ML~~	14-21	RED-TAN CLAYEY SILT. TRACE SAND	6	0		
								8	0		
10	15		5	D				10	0		NO
						21-25	GREY FINE SAND, TRACE SILT TO COARSE SAND. WET, NO ODOR	12	0		SAMPLE
15	20		5	D				14	0		
20	25		5	W				16	0		
								18	0		
								20	0		
								22	0		
								24	0		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size
		NO	WELL	INSTALLED					

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density # Blows/ft		Cohesive Consistence # Blows/ft	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: ASCEND BURN PIT	HRP	Test Boring/Monitor Well ID: SB-5
Location: GREENWOOD SC	DRILLING/SOIL LOG	
HRP# ASC7031.RA	Rig Type: GP 6712	Sheet No. 1 of 1
Date: 2-14-22	Hammer (weight [lb] / fall [inches])	Driller: JEFF GRANT
HRP Rep. SCM		
Ground Elevation:	PROPORTIONS	Type / Casing / Sampler / Core Barrel
Total Boring Depth: 25'	trace: 0 to 10% some: 20 to 35%	O.D. (inch)
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	I.D. (inch)

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		5	D	ML	0-12	RED BRWN CLAYEY SILT, DRY, NO ODOR.	2	0		
								4	0		
5	10		5	D				6	0		
								8	0		
10	15		5	D		12-16	RED-TAN SILT, TRACE SAND	10	0		
								12	0		
15	20		5	D/W		16-25	TAN/GREY SILTY FINE SAND, TRACE V. COARSE ANGULAR SAND. WET, NO ODOR	14	0.2		SB-5(18) 2-14 1520
								16	0.0		
20	25		5	W				18	0.3		
								20	0		
								22	0		
								24	0		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size
			NO	WELL					

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density # Blows/ft		Cohesive Consistence # Blows/ft	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: ASLEND BURN PIT	HRP		Test Boring/Monitor Well ID: SB-6
Location: GREENWOOD, SC	DRILLING/SOIL LOG		
HRP# ASL7031.RA	Rig Type: G-P 6712		Sheet No. 1 of 1
Date: 2-14-22	Hammer (weight [lb] / fall [inches])		Driller: JEFF GRANT
HRP Rep. SLM			Casing / Sampler / Core Barrel
Ground Elevation:	PROPORTIONS		Type
Total Boring Depth: 25'	trace: 0 to 10% some: 20 to 35%		O.D. (inch)
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%		I.D. (inch)

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		5	D		0-13	RED-BROWN CLAYEY SILT, NO ODOR.	2	0		
								4	0		
5	10		5	D		13-21	RED-TAN CLAYEY SILT, ~~TRACE~~ NO ODOR/STAINING	6	0		
								8	0		
10	15		5	D		21-23	GREY CLAYEY SILT, WET. NO ODOR.	10	0		
								12	0		
15	20		5	D				14	0		
20	25		5	W		23-25	RED-BROWN CLAYEY SILT, WET. NO ODOR.	16	0		
								18	0		
								20	0		
								22	0		
								24	0		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE		ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler			
CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)	from	to	Material	Cohesionless Density		Cohesive Consistance	
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)				# Blows/ft		# Blows/ft	
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)				0-4	very loose	0-2	very soft
GM (Silty Gravel)	SC (Clayey Sand)				5-9	loose	3-4	soft
GP (Poorly Graded Gravel)	SM (Silty Sand)				10-29	edium dens	5-8	medium stiff
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)				30-49	dense	15-Sep	stiff
MH (Elastic Silt)	SW (Well-Graded Sand)				50+	very dense	16-30	very stiff
ML (Silt)							31+	hard

Project: ASCEND BURN PIT
Location: GREENWOOD, SC
HRP# ASC7031.RA

HRP

DRILLING/SOIL LOG

Test Boring/Monitor Well ID: SB-7

Sheet No. 1 of 1

Rig Type: GP 6712

Date: 2-15-22

Hammer (weight [lb] / fall [inches])

Driller: JEFF GRANT

HRP Rep. SLM

	Casing	Sampler	Core Barrel
Type			
O.D. (inch)			
I.D. (inch)			

Ground Elevation:

PROPORTIONS

trace: 0 to 10% some: 20 to 35%
little: 10 to 20% and: 35 to 50%

Total Boring Depth: 30'

Depth to Bedrock: —

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		5	D	ML	0-6	RED-BROWN CLAYEY SILT, DRY, NO ODOR/STAINING.	2	0		
								4	0		
5	10		5	D				6	0		
						6-10					
10	15		5	D			RED-BROWN SILT, TRACE SAND, DRY.	8	0		
								10	0		
15	20		5	D							
20	25		5	D		16-23	GRAY-TAN SILT, LITTLE ANGULAR SAND	12	0		
								14	0		
25	30		5	W				16	0		SB-7(18)
						23-30	GRAY, FINE-VERY COARSE ANGULAR SAND WITH SOME SILT. WET AT 25'	18	0.5		2-15-22 948
								20	0.3		
								22	0		
								24	0		
								26	0		
								28	0		
								30	0		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size
			NO WELL SET						

SOIL TYPE

CH (Fat Clay)
CL (Lean Clay)
GC (Clayey Gravel)
GM (Silty Gravel)
GP (Poorly Graded Gravel)
GW (Well-Graded Gravel)
MH (Elastic Silt)
ML (Silt)
OH (Organic Clay / Silt of High Plasticity)
OL (Organic Clay / Silt of Low Plasticity)
PT (Highly Organic Soil / Peat)
SC (Clayey Sand)
SM (Silty Sand)
SP (Poorly Graded Sand)
SW (Well-Graded Sand)

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density # Blows/ft		Cohesive Consistance # Blows/ft	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-48	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: ASCEND BURN PIT	HRP	Test Boring/Monitor Well ID: SB-8	
Location: GREENWOOD, SC	DRILLING/SOIL LOG		
HRP# ASC7031, RA		Sheet No. 1 of 1	
	Rig Type:		
Date: 2-15-22	Hammer (weight [lb] / fall [inches])	Driller: JEFF GRANT	
HRP Rep. SLM		Casing / Sampler / Core Barrel	
Ground Elevation:	PROPORTIONS	Type	
Total Boring Depth: 25'	trace: 0 to 10% some: 20 to 35%	O.D. (inch)	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	I.D. (inch)	

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		5	D	ML	0-5	RED-BROWN CLAYEY SILT, DRY. NO ODOR.	2	0		
5	10		5	D				4	0		
10	15		5	D	ML	5-21	RED-BROWN SILT, TRACE MED-COARSE ANGULAR SAND. DRY.	6	0		
								8	0		
								10	0		
15	20		5	D				12	0		
					ML	21-25	GRAY SILT W/ SOME ANGULAR MED-COARSE SAND. NO ODOR.	14	0		
20	25		5	D/M				16	0		
								18	0		
								20	0		
								22	0		
								24	0		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE		ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler			
CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)	from	to	Material	Cohesionless Density		Cohesive Consistence	
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)				# Blows/ft		# Blows/ft	
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)				0-4	very loose	0-2	very soft
GM (Silty Gravel)	SC (Clayey Sand)				5-9	loose	3-4	soft
GP (Poorly Graded Gravel)	SM (Silty Sand)				10-29	edium dens	5-8	medium stiff
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)				30-49	dense	15-Sep	stiff
MH (Elastic Silt)	SW (Well-Graded Sand)				50+	very dense	16-30	very stiff
ML (Silt)							31+	hard

Project: ASCEND BURN PIT
Location: GREENWOOD
HRP# ASC7631.RA

HRP

DRILLING/SOIL LOG

Test Boring/Monitor Well ID: SB-9

Sheet No. 1 of ___

Rig Type: GP6712

Date: 2-15-22

Hammer (weight [lb] / fall [inches])

Driller: JEFF GRANT

HRP Rep. SCM

	Casing	Sampler	Core Barrel
Type			
O.D. (inch)			
I.D. (inch)			

Ground Elevation: -

Total Boring Depth: 30

Depth to Bedrock: -

PROPORTIONS

trace: 0 to 10% some: 20 to 35%

little: 10 to 20% and: 35 to 50%

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		5	D		0-0.5	ASPHALT	2	0		
					ML	0.5-7	RED-BROWN CLAYEY SILT TRACE SAND. NO ODOR.	4	0		
5	10		5	D				6	0		
					ML	7-19	RED-BROWN SILT, TRACE MEDIUM-COARSE ANGULAR SAND. NO ODOR/STAINING	8	0		
10	15		5	D				10	0		
15	20		5	D	ML	19-30	GREY-TAN SILT, SOME	12	0		SB-9(24)
							MEDIUM-COARSE ANGULAR SAND.	14	0		2-15,
20	25		5	D				16	0		1021
							WET AT 26'	16	0		
25	30		5	W				20	0		
								22	0		
								24	0.5		
								26	0		
								28	0		
								30	0		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density # Blows/ft		Cohesive Consistence # Blows/ft	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: ASCEND BURN PIT	HRP		Test Boring/Monitor Well ID: SB-10
Location: GREENWOOD, SC	DRILLING/SOIL LOG		
HRP# ASC703.RA	Rig Type: GP 6712		Sheet No. 1 of 1
Date: 2-15-22	Hammer (weight [lb] / fall [inches])		Driller: JEFF GRANT
HRP Rep. SLM			Casing / Sampler / Core Barrel
Ground Elevation:	PROPORTIONS		Type
Total Boring Depth: 25'	trace: 0 to 10%	some: 20 to 35%	O.D. (inch)
Depth to Bedrock:	little: 10 to 20%	and: 35 to 50%	I.D. (inch)

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		5	D		0-7	RED-BROWN CLAYEY SILT, DRY. NO ODOR.	2	C		
								4	C		
5	10		5	D		7-19.5	RED-TAN SILT, TRACE ANGULAR SAND. DRY, NO ODOR.	6	C		
10	13		5	D				8	C		NONE
								10	C		
15	20		5	D		19.5-21.5	GREY SILT, LITTLE V. COARSE ANGULAR SAND. NO ODOR.	12	C		
20	25							14	C		
								16	C		
								18	C		
						21.5-25	BROWN SILT, LITTLE MED-V. COARSE ANGULAR SAND. NO ODOR.	20	C		
								22	C		
								24	C		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size
			NC	WELL					

SOIL TYPE		ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler			
CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)	from	to	Material	Cohesionless Density		Cohesive Consistence	
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)				# Blows/ft		# Blows/ft	
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)				0-4	very loose	0-2	very soft
GM (Silty Gravel)	SC (Clayey Sand)				5-9	loose	3-4	soft
GP (Poorly Graded Gravel)	SM (Silty Sand)				10-29	edium dens	5-8	medium stiff
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)				30-49	dense	15-Sep	stiff
MH (Elastic Silt)	SW (Well-Graded Sand)				50+	very dense	16-30	very stiff
ML (Silt)							31+	hard

Project: ASCEND BURN PIT	HRP	Test Boring/Monitor Well ID: SB-11	
Location: GREENWOOD, SC	DRILLING/SOIL LOG		
HRP# ASC703LRA	Rig Type: GP 6712 DT	Sheet No. 1 of 1	
Date: 2-15-22	Hammer (weight [lb] / fall [inches])	Driller: JEFF GRANT	
HRP Rep. SLM			
Ground Elevation:	PROPORTIONS	Type	
Total Boring Depth: 24.7	trace: 0 to 10% some: 20 to 35%	O.D. (inch)	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	I.D. (inch)	

Casing	Sampler	Core Barrel

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		2.7	D	MH	0-6.5	CLAYEY RED-BROWN SILT, TRACE SAND. NO ODOR	2	0		
								4	0		
5	10		5	D				6	0		
					ML	6.5-12	RED-BROWN SILT, TRACE SAND. NO ODOR	8	2.5	SB-11 (12)	2-15 1235
10	15		5	D		12-23.5	GRAY-TAN SILT, TRACE M-C SAND NO ODOR WET AT 20' SAND LENSES AT 11', 17', 22'	10	5.1		
								12	11.6		
15	20		5	D				14	10.2	SB-11 (18)	2-15 1246
								16	3.9		
20	25		4.7			23.5-24.5	LIGHT GRAY MEDIUM-V. COARSE ANGULAR SAND TRACE SILT NO ODOR.	18	6.7		
								20	0.9		
								22	0.7		
							REFUSAL AT 24.7'	24	3.6		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density # Blows/ft		Cohesive Consistence # Blows/ft	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	medium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: ASLEND BURN PIT	HRP	Test Boring/Monitor Well ID: SB-12	
Location: GREENWOOD, SC	DRILLING/SOIL LOG		
HRP#: ASC703.1.RA	Rig Type: GP 6712	Sheet No. 1 of 1	
Date: 2-15-22	Hammer (weight [lb] / fall [inchee])	Driller: JEFF GRANT	
HRP Rep.: SLM	PROPORTIONS	Type / O.D. (inch) / I.D. (inch)	Casing / Sampler / Core Barrel
Ground Elevation:	trace: 0 to 10% some: 20 to 35%		
Total Boring Depth:	little: 10 to 20% and: 35 to 50%		
Depth to Bedrock:			

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		5			0-7	RED-BROWN CLAYEY SILT, TRACE SAND. QTZ VEIN AT 3'	2	1.7		
								4	3.5		
						7-10.5	RED-BROWN SILT, TRACE SAND. NO ODOR.	6	1.6		SB-12(14)
								8	7.6		1305
						10.5-25	BROWN-TAN SILT, LITTLE SAND. SANDY ZONE (11.5-12)	10	8.2		
								12	10.2		
								14	19.7		SB-12(18) 2-15
								16	17.6		1321
								18	22.4		
								20	5.4		
								22	3.6		
								24	2.5		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size
			SET WELL TO		30'-	10' SCRN.			

SOIL TYPE

CH (Fat Clay)
CL (Lean Clay)
GC (Clayey Gravel)
GM (Silty Gravel)
GP (Poorly Graded Gravel)
GW (Well-Graded Gravel)
MH (Elastic Silt)
ML (Silt)
OH (Organic Clay / Silt of High Plasticity)
OL (Organic Clay / Silt of Low Plasticity)
PT (Highly Organic Soil / Peat)
SC (Clayey Sand)
SM (Silty Sand)
SP (Poorly Graded Sand)
SW (Well-Graded Sand)

ANNULAR FILL MATERIALS

from	to	Material
18	30	SAND

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density # Blows/ft		Cohesive Consistence # Blows/ft	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: ASCEND BURN PIT	HRP	Test Boring/Monitor Well ID: SB-13
Location: GREENWOOD, SC	DRILLING/SOIL LOG	
HRP# ASC7031, RA	Rig Type: GP 6712	Sheet No. 1 of 1
Date: 2-15-22	Hammer (weight [lb] / fall [inches])	Driller: JEFF GRANT
HRP Rep. SLM		Casing / Sampler / Core Barrel
Ground Elevation: —	PROPORTIONS	Type
Total Boring Depth: 25'	trace: 0 to 10% some: 20 to 35%	O.D. (inch)
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	I.D. (inch)

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)
0	5		5	D	MH	0-9	CLAYEY SILT, RED-BROWN, TRACE SAND. NO ODOR.
5	10		5	D	ML	9-11	RED-BROWN SILT W/ LITTLE SAND. NO ODOR.
10	15		5	D			
15	20		5	D/M	ML	11-19.5	BROWN-TAN SILT, LITTLE ANGULAR SAND. WET AT 19'
20	25		5	W	ML	19.5-25	GRAY SANDY SILT. WET. NO ODOR.

WELL TO 30 FT.
SCREEN 20-30'

PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
2	0.6		
4	1.1		
6	1.8		
8	5.7		
10	5.9		
12	7.2		SB-13/16'
14	16.3		2-15 1404
16	18.8		
18	7.5		SB-13(22')
20	5.6		2-15 1420
22	11.0		
24	3.8		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)
CL (Lean Clay)
GC (Clayey Gravel)
GM (Silty Gravel)
GP (Poorly Graded Gravel)
GW (Well-Graded Gravel)
MH (Elastic Silt)
ML (Silt)
OH (Organic Clay / Silt of High Plasticity)
OL (Organic Clay / Silt of Low Plasticity)
PT (Highly Organic Soil / Peat)
SC (Clayey Sand)
SM (Silty Sand)
SP (Poorly Graded Sand)
SW (Well-Graded Sand)

ANNULAR FILL MATERIALS

from	to	Material
18	30	SAND

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density # Blows/ft		Cohesive Consistence # Blows/ft	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	medium dense	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: ASCEND BURN PIT	HRP	Test Boring/Monitor Well ID: SB 14
Location: GREENWOOD, SC	DRILLING/SOIL LOG	
HRP# ASC7031.RA		Sheet No. 1 of 1
	Rig Type:	
Date: 2-15-22	Hammer (weight [lb] / fall [inches])	Driller: JEFF GRANT
HRP Rep. SLM		
Ground Elevation:	PROPORTIONS	Type / O.D. (inch) / I.D. (inch) — Casing / Sampler / Core Barrel
Total Boring Depth:	trace: 0 to 10% some: 20 to 35%	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		5	D	MH	0-4	RED-BROWN CLAYEY SILT, TRACE SAND. NO ODOR.	2	0.2		
								4	0.4		
5	10		5	D	MH	4-13	TAN CLAYEY SILT, LITTLE ANGULAR SAND. NO ODOR.	6	0.4		
								8	0.5		
10	15		5	D				10	1.6		
								12	2.8		
15	20		5		SM	13-16	TAN SILTY FINE SAND, LITTLE MEDIUM-COARSE SAND. DRY, NO ODOR	14	4.5		SB-14 (14)
20	25		4					16	1.3		2-15 1520
						16-25	GRAY SANDY SILT, RELICT BIOTITE. LITTLE VERY COARSE SAND, ISOLATED TO LENSES. WET AT 19.5'	18	1.5		
								20	0.6		SB-14 (22) 2-15 1532
								22	5.4		
								24	1.6		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density # Blows/ft		Cohesive Consistence # Blows/ft	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: ASHEND BURN PIT
Location: GREENWOOD, SC
HRP# ASC703.0RA

HRP

DRILLING/SOIL LOG

Test Boring/Monitor Well ID: SB-15

Sheet No. 1 of 1

Rig Type:

Date: 2-16-22
HRP Rep. SLM

Hammer (weight [lb] / fall [inches])

Driller: JEFF GRANT

Ground Elevation:

Total Boring Depth: 25'

Depth to Bedrock:

PROPORTIONS

trace: 0 to 10% some: 20 to 35%
little: 10 to 20% and: 35 to 50%

	Casing	Sampler	Core Barrel
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		5	D	MH	0-4	RED-BROWN CLAYEY SILT, TRACE SAND. NO ODOR.	2	0		
								4	0		
5	10		5	D				6	0		
					MS	4-10	RED TAN SANDY SILT- ANGULAR M-V.C. QTZ SAND. NO ODOR. SANDY LENSES AT 10', 12', 13.5', 17'. MOIST AT 19'	8	0		
10	15		5	D				10	0		
15	20		5	D/M				12	0.1		NO
								14	0.1		SAMPLE
20	25		4	M/W				16	0.1		
					MS	19.5-25	GRAY SANDY SILT. LITTLE ANGULAR SAND. NO ODOR. WET AT 24'	18	0.1		
								20	0.2		
								22	0.1		
								24	0		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density # Blows/ft		Cohesive Consistence # Blows/ft	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	16-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: A-SLEND BUEN PIT

Location: GREENWOOD

HRP# AS7031.RA

HRP

DRILLING/SOIL LOG

Rig Type:

Test Boring/Monitor Well ID: SB-16

Sheet No. 1 of 1

Date: 2-16-22

HRP Rep. SLM

Hammer (weight [lb] / fall [inches])

Driller: JEFF GRANT

	Casing	Sampler	Core Barrel
Type			
O.D. (inch)			
I.D. (inch)			

Ground Elevation:

Total Boring Depth: 25'

Depth to Bedrock:

PROPORTIONS

trace: 0 to 10% some: 20 to 35%

little: 10 to 20% and: 35 to 50%

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		5	D	MH	0-6	RED-BROWN CLAYEY SILT, TRACE MED-V.C. SAND, DRY, NO ODOR	2	0		
								4	0		
5	10		5	D				6	0		
10	15		5	D	ML	6-14	RED-TAN SILT, LITTLE COARSE SAND. NO ODOR.	8	0.1		
								10	0.3		SB-16 (14) 2-16 947
15	20		5	M				12	0.8		
20	25		4.5	W	ML	14-25	GREY SILT, LITTLE MED-COARSE SAND. NO ODOR. WET AT 21'	14	0.9		
								16	0.3		
								18	0.2		
								20	0.2		
								22	0		
								24	0		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size
				NO	WELL				

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density # Blows/ft		Cohesive Consistence # Blows/ft	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: ASLEND BURN PIT
Location: GREENWOOD, SC
HRP# ASC7231.RA
Date: 2-16-22
HRP Rep. SLM
Ground Elevation:
Total Boring Depth:
Depth to Bedrock:

HRP

DRILLING/SOIL LOG

Rig Type: GP 6712
Hammer (weight [lb] / fall [inches])

PROPORTIONS
trace: 0 to 10% some: 20 to 35%
little: 10 to 20% and: 35 to 50%

Test Boring/Monitor Well ID: SB-17
Sheet No. 1 of 1
Driller: JEFF GRANT

	Casing	Sampler	Core Barrel
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)
0	5		5	D		0-6	RED-BROWN CLAYEY SILT, TRACE SAND. NO ODOR.
5	10		5	D		6-16	RED-TAN SILT, TRACE SAND. NO ODOR
10	15		5	D			
15	20		5	D/M		16-25	GREY SILT WITH LITTLE MED-COARSE SAND. NO ODOR.

PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
2	0		
4	0		
6	0.5		
8	0.1		
10	0.3		
12	0.2		
14	0.1		
16	0		
18	0.3		SB-17 (24)
20	0.1		
22	0.2		2-16, @ 1120
24	0.3		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density # Blows/ft		Cohesive Consistence # Blows/ft	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	medium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: ASCEND BURN PIT	HRP	Test Boring/Monitor Well ID:	SB-18
Location: GREENWOOD, SC	DRILLING/SOIL LOG		
HRP# ASC703.1.RA	Rig Type: GP 6712	Sheet No. 1 of 1	
Date: 2-16-22	Hammer (weight [lb] / fall [inches])	Driller:	
HRP Rep. SLM		Casing / Sampler / Core Barrel	
Ground Elevation:	PROPORTIONS	Type	
Total Boring Depth: 20'	trace: 0 to 10% some: 20 to 35%	O.D. (inch)	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	I.D. (inch)	

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		5	D	MH	0-4	RED-BROWN CLAYEY SILT, TRACE SAND. QUARTZ VEIN AT 2'. NO ODOR.	2	0		
								4	0		
5	10		5	D				6	0		
								8	0		
10	15		5	D	ML	4-17.5	RED-TAN SILT, WITH TRACE M-VC. ANGULAR SAND. NO ODOR.	10	0		
								12	0		
15	20		5	M/W				14	0		
					SM/MS	17.5-20	GREY SILTY SAND, NO ODOR. WET AT 19'	16	0.1		
								18	0.2		
								20	0.2		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density # Blows/ft		Cohesive Consistence # Blows/ft	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: ASCEND BURN PIT
Location: GREENWOOD, SC
HRP# 0ASC7031.RA

HRP

DRILLING/SOIL LOG

Rig Type: GP6712

Test Boring/Monitor Well ID: SB-19

Sheet No. 1 of 1

Date: 2-16-22
HRP Rep. SLM
Hammer (weight [lb] / fall [inches])
Driller: JEFF GRANT

Ground Elevation:
Total Boring Depth: 20'
Depth to Bedrock:

PROPORTIONS
trace: 0 to 10% some: 20 to 35%
little: 10 to 20% and: 35 to 50%

	Casing	Sampler	Core Barrel
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		5	D	MH	0-9	RED-BROWN CLAYEY SILT, TRACE SAND. NO ODOR.	2	0		
								4	0		
5	10		5	D				6	0		
					ML	9-12	RED-TAN SILT, LITTLE MED-COARSE SAND. NO ODOR	8	0		
10	15		5	D				10	0.2		
								12	0		
15	20		4	M/W	ML	12-20	TAN SILT, TRACE SAND. WET AT 18.5'	14	0		
								16	0		
								18	0		
								20	0.1		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size
				NO WELL					

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density # Blows/ft		Cohesive Consistence # Blows/ft	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: ASCEND BURN PIT
Location: GREENWOOD, SC
HRP# AS6703.RA

HRP

DRILLING/SOIL LOG

Test Boring/Monitor Well ID: SB-20

Sheet No. 1 of 1

Rig Type: GP 6712

Hammer (weight [lb] / fall [inches])

Driller: JEFF GRANT

Date: 2-16-22

HRP Rep. SLM

	Casing	Sampler	Core Barrel
Type			
O.D. (inch)			
I.D. (inch)			

Ground Elevation:

Total Boring Depth:

Depth to Bedrock:

PROPORTIONS

trace: 0 to 10% some: 20 to 35%

little: 10 to 20% and: 35 to 50%

Sampler Depth Interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		5	D	MH	0-6	RED-BROWN ~~SILT~~ CLAYEY SILT, TRACE SAND. NO ODOR	2	0		
								4	0		
5	10		5	D				6	0		
								8	0		
10	15				ML	6-13	RED-TAN SILT W/ LITTLE CLAY, TRACE SAND. NO ODOR.	10	0		
								12	0		
15	20					13-20	TAN SILT, TRACE SAND. NO ODOR	14	0		
								16	0		
								18	0		
								20			

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density # Blows/ft		Cohesive Consistence # Blows/ft	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Groundwater Sampling Data Sheet

Well ID: SB-2

Date: 2-15-22

Field Meter ID No.		Well Information/Condition		Site Background Information	
pH:	—	Condition:	—	Client:	ASCENT
Conductivity:	—	Well Locked:	—	Site Location:	GREENWOOD, SC
Turbidity:	20612KO	Well Cap:	—	Job Number:	ASC7031.R.A
Multi Meter:	YSI PRC	Visible ID:	—	Analyst(s):	SAM
Other:	—	Casing Material:	PVC / Steel	Weather:	SUN COLD

Groundwater Elevation Data		Well Purging Data		
Well Diameter (in):	1	Purge Method:	Low-Flow / Volume Purge / No Purge (Grab)	
Depth to Water (ft btoc):	21.39	Pump Type:	Peristaltic / Bladder / Monsoon / Other:	
Depth to NAPL (ft btoc):	—	Bailer Type:	Teflon / HDPE	
Total Well Depth (ft btoc):	30.0	Well Screen Setting (ft btoc):	20-30	Purge Start: 952
Length of Water Column (ft):		Tubing Intake (ft btoc):	25	Purge Stop: 1103
[1]Well Volume (gal):				

Drawdown / Water Quality Monitoring Parameters

Time (hours)	Total Volume Purged (gallons)	Purge Rate (gpm or mL/min)	Depth to Water (ft btoc)	pH (units)	Conductivity (us/cm)	Turbidity (NTU/Subj[2])	Temperature (°C)	Dissolved Oxygen (mg/l)	ORP (mv)
955	INIT.	100	—	7.02	223.4	185.0	17.1	5.6	-79.8
1035	0.75	90	—	6.11	212.9	25.6	17.5	2.0	-177.2
1056	1	90	—	6.06	207.5	15.08	17.6	2.1	-170.6
1103	1.2	90	—	6.05	207.1	9.21	17.7	2.1	-168.6
Region IV USEPA Recommended Stabilization Criteria				+/- 0.1	+/- 5%	+/- 10%/<10	NA	+/- 0.2 mg/L or +/- 10%	+/- 20
SCDHEC QAPP Stabilization Criteria				+/- 0.1	+/- 5%	+/- 5%/<10	+/- 5%	+/- 0.2 mg/L	NA

Sample ID: SB-2

Sample Date/Time: 2-15-22/1103

Analysis	Container	Number	Preservative
8260			HCl
NITRATE, SULF. CHL.			
DISS. Fe, Mg.			
HPC			

Comments: Fe^{2+}: 1.0 mg/L

HPC: 2/16, 1033

Notes:

1 - Well Volume = Length of water column X well diameter coefficient

Well Diameter Coefficients:

0.75" = 0.023 1" = 0.041 2" = 0.163

4" = 0.678 6" = 1.47 8" = 2.611

2 - Subjective: Clear/Low, Slight/Moderate, Heavy/Turbid

Groundwater Sampling Data Sheet

Well ID: SB-3

Date: 2-15-22

Field Meter ID No.		Well Information/Condition		Site Background Information	
pH:	—	Condition:	—	Client:	ASCZMD
Conductivity:	—	Well Locked:	—	Site Location:	GREENWOOD
Turbidity:	20612140	Well Cap:	—	Job Number:	ASC7031.RA
Multi Meter:	YSI PDC	Visible ID:	—	Analyst(s):	SCM
Other:	—	Casing Material:	(PVC) / Steel	Weather:	SM, CC

Groundwater Elevation Data		Well Purging Data			
Well Diameter (in):	1.	Purge Method:	(Low-Flow) / Volume Purge / No Purge (Grab)		
Depth to Water (ft btoc):	21.78	Pump Type:	(Peristaltic) / Bladder / Monsoon / Other:		
Depth to NAPL (ft btoc):	—	Baller Type:	Teflon / HDPE		
Total Well Depth (ft btoc):	30.0	Well Screen Setting (ft btoc):	20-30	Purge Start:	1152
Length of Water Column (ft):		Tubing Intake (ft btoc):	26	Purge Stop:	1329
[1]Well Volume (gal):					

Drawdown				Water Quality Monitoring Parameters					
Time (hours)	Total Volume Purged (gallons)	Purge Rate (gpm or mL/min)	Depth to Water (ft btoc)	pH (units)	Conductivity (us/cm)	Turbidity (NTU/Subj[2])	Temperature (°C)	Dissolved Oxygen (mg/l)	ORP (mv)
1155	INITIAL	100	—	6.04	105.7	2110	17.3	5.0	22.2
1230	1	100	—	5.95	164.4	22.81	19.0	3.0	-116.7
1310	2.2	100	—	5.74	160.0	8.52	19.8	3.4	-94.2
1318	2.3	100	—	5.74	160.1	9.05	19.7	3.3	-95.1
1329	2.5	100	—	5.74	160.2	7.44	19.7	3.3	-93.8
Region IV USEPA Recommended Stabilization Criteria				+/- 0.1	+/- 5%	+/- 10%/<10	NA	+/- 0.2 mg/L or +/- 10%	+/- 20
SCDHEC QAPP Stabilization Criteria				+/- 0.1	+/- 5%	+/- 5%/<10	+/- 5%	+/- 0.2 mg/L	NA

Sample ID: SB-3

Sample Date/Time: 2-15-22 / 1324

Analysis	Container	Number	Preservative

Comments: FC2+: 1.0 mg/L

HPC: 2/16,104

Notes:

1 - Well Volume = Length of water column X well diameter coefficient

Well Diameter Coefficients:

0.75" = 0.023 1" = 0.041 2" = 0.163

4" = 0.678 6" = 1.47 8" = 2.611

2 - Subjective: Clear/Low, Slight/Moderate, Heavy/Turbid

Groundwater Sampling Data Sheet

Well ID: SB-12

Date: 2-15-22

Field Meter ID No.		Well Information/Condition		Site Background Information	
pH:	~	Condition:	~	Client:	ASCEND
Conductivity:	~	Well Locked:	~	Site Location:	GREENWOOD
Turbidity:	2CC612,40	Well Cap:	~	Job Number:	ASC7031.02A
Multi Meter:	YSI PRC	Visible ID:	~	Analyst(s):	SLM
Other:	~	Casing Material:	(PVC) / Steel	Weather:	SLN

Groundwater Elevation Data		Well Purging Data			
Well Diameter (in):	1	Purge Method:	(Low-Flow) / Volume Purge / No Purge (Grab)		
Depth to Water (ft btoc):	20.88	Pump Type:	(Peristaltic) / Bladder / Monsoon / Other:		
Depth to NAPL (ft btoc):	~	Bailer Type:	Teflon / HDPE		
Total Well Depth (ft btoc):	30'	Well Screen Setting (ft btoc):	20-30	Purge Start:	1501
Length of Water Column (ft):		Tubing Intake (ft btoc):	26	Purge Stop:	1552
[1]Well Volume (gal):					

Drawdown				Water Quality Monitoring Parameters					
Time (hours)	Total Volume Purged (gallons)	Purge Rate (gpm or mL/min)	Depth to Water (ft btoc)	pH (units)	Conductivity (us/cm)	Turbidity (NTU/Subj[2])	Temperature (°C)	Dissolved Oxygen (mg/l)	ORP (mv)
1503	INIT.	100	~	6.40	118.0	<1100	19.3	3.0	18.3
1534	0.6	100	~	5.34	100.7	~	19.1	1.2	-49.9
1543	0.75	100	~	5.28	93.7	~	19.1	1.3	-46.7
1549	0.8	100	~	5.27	92.8	~	19.1	1.3	-41.5
1552	0.9	100	~	5.26	90.8	~	19.1	1.4	-28.5
Region IV USEPA Recommended Stabilization Criteria				+/- 0.1	+/- 5%	+/- 10%/<10	NA	+/- 0.2 mg/L or +/- 10%	+/- 20
SCDHEC QAPP Stabilization Criteria				+/- 0.1	+/- 5%	+/- 5%/<10	+/- 5%	+/- 0.2 mg/L	NA

Sample ID: SB-12

Sample Date/Time: 2-15-22 / 1552

Comments: Fe^{2+} : 0.5 mg/L

HRC: 2/16, 1050

Analysis	Container	Number	Preservative

Notes:

1 - Well Volume = Length of water column X well diameter coefficient

Well Diameter Coefficients:

0.75" = 0.023 1" = 0.041 2" = 0.163

4" = 0.678 6" = 1.47 8' = 2.611

2 - Subjective: Clear/Low, Slight/Moderate, Heavy/Turbid

Groundwater Sampling Data Sheet

Well ID: SB-13

Date: 2-15-22

Field Meter ID No.		Well Information/Condition		Site Background Information	
pH:		Condition:	✓	Client:	ASCEND
Conductivity:		Well Locked:	✓	Site Location:	GREENWOOD, SC
Turbidity:	–	Well Cap:	✓	Job Number:	ASC7031, RA
Multi Meter:	YSI PRO	Visible ID:	–	Analyst(s):	SLM
Other:		Casing Material:	PVC / Steel	Weather:	

Groundwater Elevation Data		Well Purging Data			
Well Diameter (in):	1	Purge Method:	Low-Flow / Volume Purge / No Purge (Grab)		
Depth to Water (ft btoc):	20.48	Pump Type:	Peristaltic / Bladder / Monsoon / Other:		
Depth to NAPL (ft btoc):	–	Bailer Type:	Teflon / HDPE		
Total Well Depth (ft btoc):	30	Well Screen Setting (ft btoc):	20-30	Purge Start:	1628
Length of Water Column (ft):		Tubing Intake (ft btoc):	26	Purge Stop:	1735
[1]Well Volume (gal):					

Drawdown				Water Quality Monitoring Parameters					
Time (hours)	Total Volume Purged (gallons)	Purge Rate (gpm or mL/min)	Depth to Water (ft btoc)	pH (units)	Conductivity (us/cm)	Turbidity (NTU/Subj[2])	Temperature (°C)	Dissolved Oxygen (mg/l)	ORP (mv)
1632	1 VOL.	100	–	5.98	171.3	–	19.6	3.7	-42.8
1656	0.6	100	–	5.89	160.8	–	19.4	3.8	-44.7
1725	1.2	100	–	5.79	151.2	–	19.1	3.9	-45.2
1730	1.3	100	–	5.78	152.4	–	19.1	3.8	-44.5
1735	1.4	100	–	5.77	151.8	–	19.1	3.8	-44.4
Region IV USEPA Recommended Stabilization Criteria				+/- 0.1	+/- 5%	+/- 10%/<10	NA	+/- 0.2 mg/L or +/- 10%	+/- 20
SCDHEC QAPP Stabilization Criteria				+/- 0.1	+/- 5%	+/- 5%/<10	+/- 5%	+/- 0.2 mg/L	NA

Sample ID: SB-13

Sample Date/Time: 2-15-22 / 1735

Comments: Fe^{2+} : <0.5 mg/L

MPC: 2-16, 1059

Analysis	Container	Number	Preservative

Notes:

1 - Well Volume = Length of water column X well diameter coefficient

Well Diameter Coefficients:

0.75" = 0.023 1" = 0.041 2" = 0.163

4" = 0.678 6" = 1.47 8' = 2.611

2 - Subjective: Clear/Low, Slight/Moderate, Heavy/Turbid

Groundwater Sampling Data Sheet

Well ID: SB-14

Date: 2-16-22

Field Meter ID No.		Well Information/Condition		Site Background Information	
pH:		Condition:	—	Client:	ASCEND
Conductivity:		Well Locked:	—	Site Location:	GREENWOOD, SC
Turbidity:	—	Well Cap:	—	Job Number:	ASC702.RA
Multi Meter:	YSI PRO	Visible ID:	—	Analyst(s):	SLM
Other:		Casing Material:	PVC / Steel	Weather:	SUN, COLD

Groundwater Elevation Data		Well Purging Data		
Well Diameter (in):	1	Purge Method:	Low-Flow / Volume Purge / No Purge (Grab)	
Depth to Water (ft btoc):	20.52	Pump Type:	Peristaltic / Bladder / Monsoon / Other:	
Depth to NAPL (ft btoc):		Bailer Type:	Teflon / HDPE	
Total Well Depth (ft btoc):	30	Well Screen Setting (ft btoc):	20-30	Purge Start: 750
Length of Water Column (ft):		Tubing Intake (ft btoc):	~26	Purge Stop: 1022
[1]Well Volume (gal):				

Drawdown				Water Quality Monitoring Parameters					
Time (hours)	Total Volume Purged (gallons)	Purge Rate (gpm or mL/min)	Depth to Water (ft btoc)	pH (units)	Conductivity (us/cm)	Turbidity (NTU/Subj[2])	Temperature (°C)	Dissolved Oxygen (mg/l)	ORP (mv)
752	IN TO	100	-	7.15	258.7	cloudy	14.2	8.0	-38.3
933	1.6	100	—	5.75	123.8	CLEAR	16.9	3.1	-119.3
1003	2.4	100	—	5.69	120.6	CLEAR	16.9	3.1	-107.3
1022	2.6	100	—	5.68	120.4	CLEAR	17.0	3.2	-109.1
								[illegible]	[illegible]
Region IV USEPA Recommended Stabilization Criteria				+/- 0.1	+/- 5%	+/- 10%/<10	NA	+/- 0.2 mg/L or +/- 10%	+/- 20
SCDHEC QAPP Stabilization Criteria				+/- 0.1	+/- 5%	+/- 5%/<10	+/- 5%	+/- 0.2 mg/L	NA

Sample ID: SB-14

Sample Date/Time: 2-16-22 / 1022

Comments: Fe^{2+}: 1.0 mg/L

Analysis	Container	Number	Preservative

Notes:

1 - Well Volume = Length of water column X well diameter coefficient

Well Diameter Coefficients:

0.75" = 0.023 1" = 0.041 2" = 0.163

4" = 0.678 6" = 1.47 8' = 2.611

2 - Subjective: Clear/Low, Slight/Moderate, Heavy/Turbid

APPENDIX B
Water Well Records

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: **HRP Associates, Inc.**
(last) (first)
Address: **1327 Miller Road**
City: **Greenville** State: **SC** Zip: **29607**
Phone: **864-289-0311**

2. LOCATION OF WELL: **COUNTY: Greenwood**
Name: **Ascend Performance Materials Operations**
Address: **1515 Highway 246 South**
City: **Greenwood, 29646**
Lattitude: 34.234480 Longitude: 82.054358

3. PUBLIC SYSTEM NAME: SB-2

4. ABANDONMENT: **Yes**
Grouted Depth: from 0.00 to 30.00 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

5. REMARKS: Temporary well.

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

7. PERMIT NUMBER: **MW-13036**

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

9. WELL DEPTH (completed)
30.00 ft. Date Started: **3/14/2022** Date Completed: **3/16/2022**

10. CASING: Threaded / Welded
Diameter: **1"**
Type: **PVC**
0.0 in. to **20** ft. depth
in. to ft. depth
Height: Below Surface: ft.
Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: **PVC** Diameter: **1"**
Slot/Gauge: **0.010** Length: **10- Feet**
Set Between: **20.00** ft. and **30.00** ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL **21.38** ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) **Yes**
Installed from: **18.0** ft. to **30.0** ft.
Effective Size: **#2** Uniformity Coefficient:

16. WELL GROUTED? **Yes**
Neat Cement, **Bentonite**, Bentonite/Cement, Other
Depth: From **16.0** ft. to **18.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: N/A Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible, Jet (shallow), Turbine
Jet (deep), Reciprocating, Centrifugal

19. WELL DRILLER: Jeffrey Grant **CERT NO.: 2105**
Address: 124 Pisgah Road Level: A **B** C D
Easley, SC 29642 (circle one)
Telephone: 864-361-6942 Fax:

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

Signed: *Jeffrey Grant*
Date: **3/16/22**

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: **HRP Associates, Inc.**
(last) (first)
Address: **1327 Miller Road**
City: **Greenville** State: **SC** Zip: **29607**
Phone: **864-289-0311**

2. LOCATION OF WELL: **COUNTY: Greenwood**
Name: **Ascend Performance Materials Operations**
Address: **1515 Highway 246 South**
City: **Greenwood, 29646**
Lattitude: 34.234675 Longitude: 82.054535

3. PUBLIC SYSTEM NAME: SB-3

4. ABANDONMENT: **Yes**
Grouted Depth: from 0.00 to 30.00 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

5. REMARKS: Temporary well.

6. TYPE: Mud Rotary, Jetted, Bored; Dug, Air Rotary, (Driven); Cable tool, Auger, Other

7. PERMIT NUMBER: **MW-13036**

8. USE:
Residential, Public Supply, Process; Irrigation, Air Conditioning, Emergency; Test Well, (Monitor Well), Replacement

9. WELL DEPTH (completed)
30.00 ft. Date Started: **3/14/2022** Date Completed: **3/16/2022**

10. CASING: Threaded / Welded
Diameter: **1"**
Type: **PVC**
0.0 in. to **20** ft. depth
in. to ft. depth
Height: Below Surface: ft.
Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: **PVC** Diameter: **1"**
Slot/Gauge: **0.010** Length: **10- Feet**
Set Between: **20.00** ft. and **30.00** ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL **21.78** ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) **Yes**
Installed from: **18.0** ft. to **30.0** ft.
Effective Size: **#2** Uniformity Coefficient:

16. WELL GROUTED? **Yes**
Neat Cement, (Bentonite), Bentonite/Cement, Other
Depth: From **16.0** ft. to **18.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: N/A Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible, Jet (shallow), Turbine
Jet (deep), Reciprocating, Centrifugal

19. WELL DRILLER: Jeffrey Grant **CERT NO.: 2105**
Address: 124 Pisgah Road Level: A (B) C D
Easley, SC 29642 (circle one)
Telephone: 864-361-6942 Fax:

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

Signed: *Jeffrey Grant*
Date: **3/16/22**

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: **HRP Associates, Inc.**
(last) (first)
Address: **1327 Miller Road**
City: **Greenville** State: **SC** Zip: **29607**
Phone: **864-289-0311**

2. LOCATION OF WELL: **COUNTY: Greenwood**
Name: **Ascend Performance Materials Operations**
Address: **1515 Highway 246 South**
City: **Greenwood, 29646**
Lattitude: 34.234622 Longitude: 82.054194

3. PUBLIC SYSTEM NAME: SB-12

4. ABANDONMENT: **Yes**
Grouted Depth: from 0.00 to 30.00 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

5. REMARKS: Temporary well.

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

7. PERMIT NUMBER: **MW-13036**

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

9. WELL DEPTH (completed) **30.00** ft.
Date Started: **3/15/2022**
Date Completed: **3/16/2022**

10. CASING: Threaded / Welded
Diameter: **1"**
Type: **PVC**
0.0 in. to **20** ft. depth
in. to ft. depth
Height: Below Surface: ft.
Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: **PVC** Diameter: **1"**
Slot/Gauge: **0.010** Length: **10- Feet**
Set Between: **20.00** ft. and **30.00** ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL **20.88** ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) **Yes**
Installed from: **18.0** ft. to **30.0** ft.
Effective Size: **#2** Uniformity Coefficient:

16. WELL GROUTED? **Yes**
Neat Cement, **Bentonite**, Bentonite/Cement, Other
Depth: From **16.0** ft. to **18.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: N/A Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible, Jet (shallow), Turbine; Jet (deep), Reciprocating, Centrifugal

19. WELL DRILLER: Jeffrey Grant **CERT NO.: 2105**
Address: 124 Pisgah Road Level: A (B) C D
Easley, SC 29642 (circle one)
Telephone: 864-361-6942 Fax:

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

Signed: *Jeffrey Grant*
Date: **3/16/22**

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: **HRP Associates, Inc.**
(last) (first)
Address: **1327 Miller Road**
City: **Greenville** State: **SC** Zip: **29607**
Phone: **864-289-0311**

2. LOCATION OF WELL: **COUNTY: Greenwood**
Name: **Ascend Performance Materials Operations**
Address: **1515 Highway 246 South**
City: **Greenwood, 29646**
Lattitude: 34.234711 Longitude: 82.054342

3. PUBLIC SYSTEM NAME: SB-13

4. ABANDONMENT: **Yes**
Grouted Depth: from 0.00 to 30.00 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

5. REMARKS: Temporary well.

6. TYPE: Mud Rotary, Jetted, Bored; Dug, Air Rotary, (Driven); Cable tool, Auger, Other

7. PERMIT NUMBER: **MW-13036**

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

9. WELL DEPTH (completed)
30.00 ft. Date Started: **3/15/2022** Date Completed: **3/16/2022**

10. CASING: Threaded Welded
Diameter: **1"**
Type: **PVC**
0.0 in. to **20** ft. depth
in. to ft. depth
Height: Below Surface: ft.
Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: **PVC** Diameter: **1"**
Slot/Gauge: **0.010** Length: **10- Feet**
Set Between: **20.00** ft. and **30.00** ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL **20.48** ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) **Yes**
Installed from: **18.0** ft. to **30.0** ft.
Effective Size: **#2** Uniformity Coefficient:

16. WELL GROUTED? **Yes**
Neat Cement, (Bentonite), Bentonite/Cement, Other
Depth: From **16.0** ft. to **18.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: N/A Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible, Jet (shallow), Turbine
Jet (deep), Reciprocating, Centrifugal

19. WELL DRILLER: Jeffrey Grant **CERT NO.: 2105**
Address: 124 Pisgah Road Level: A (B) C D
Easley, SC 29642 (circle one)
Telephone: 864-361-6942 Fax:

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

Signed: *Jeffrey Grant*
Date: **3/16/22**

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: **HRP Associates, Inc.**
(last) (first)
Address: **1327 Miller Road**
City: **Greenville** State: **SC** Zip: **29607**
Phone: **864-289-0311**

2. LOCATION OF WELL: **COUNTY: Greenwood**
Name: **Ascend Performance Materials Operations**
Address: **1515 Highway 246 South**
City: **Greenwood, 29646**
Lattitude: 34.234797 Longitude: 82.054459

3. PUBLIC SYSTEM NAME: SB-14

4. ABANDONMENT: **Yes**
Grouted Depth: from 0.00 to 30.00 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

5. REMARKS: Temporary well.

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

7. PERMIT NUMBER: **MW-13036**

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

9. WELL DEPTH (completed)
30.00 ft. Date Started: **3/15/2022** Date Completed: **3/16/2022**

10. CASING: Threaded / Welded
Diameter: **1"**
Type: **PVC**
0.0 in. to **20** ft. depth
in. to ft. depth
Height: Below Surface: ft. Drive Shoe:
Weight: lb./ft.

11. SCREEN:
Type: **PVC** Diameter: **1"**
Slot/Gauge: **0.010** Length: **10- Feet**
Set Between: **20.00** ft. and **30.00** ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL **20.52** ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) **Yes**
Installed from: **18.0** ft. to **30.0** ft.
Effective Size: **#2** Uniformity Coefficient:

16. WELL GROUTED? **Yes**
Neat Cement / **Bentonite** / Bentonite/Cement / Other
Depth: From **16.0** ft. to **18.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: N/A Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible / Jet (shallow) / Turbine
Jet (deep) / Reciprocating / Centrifugal

19. WELL DRILLER: Jeffrey Grant **CERT NO.: 2105**
Address: 124 Pisgah Road Level: A (**B**) C D
Easley, SC 29642 (circle one)
Telephone: 864-361-6942 Fax:

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

Signed: *Jeffrey Grant*
Date: **3/16/22**

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

APPENDIX C
Groundwater Sampling Forms

Groundwater Sampling Data Sheet

Well ID: SB-2

Date: 2-15-22

Field Meter ID No.		Well Information/Condition		Site Background Information	
pH:	—	Condition:	—	Client:	ASCENDA
Conductivity:	—	Well Locked:	—	Site Location:	GREENWOOD, SC
Turbidity:	2006 12 HO	Well Cap:	—	Job Number:	ASC703.1.RA
Multi Meter:	YSI PRO	Visible ID:	—	Analyst(s):	SAM
Other:	—	Casing Material:	PVC / Steel	Weather:	SUN COLD

Groundwater Elevation Data		Well Purging Data		
Well Diameter (in):	1	Purge Method:	Low-Flow / Volume Purge / No Purge (Grab)	
Depth to Water (ft btoc):	21.39	Pump Type:	Peristaltic / Bladder / Monsoon / Other:	
Depth to NAPL (ft btoc):	—	Bailer Type:	Teflon / HDPE	
Total Well Depth (ft btoc):	30.0	Well Screen Setting (ft btoc):	20-30	Purge Start: 952
Length of Water Column (ft):		Tubing Intake (ft btoc):	26	Purge Stop: 1103
[1]Well Volume (gal):				

Drawdown				Water Quality Monitoring Parameters					
Time (hours)	Total Volume Purged (gallons)	Purge Rate (gpm or mL/min)	Depth to Water (ft btoc)	pH (units)	Conductivity (us/cm)	Turbidity (NTU/Subj[2])	Temperature (°C)	Dissolved Oxygen (mg/l)	ORP (mv)
955	INIT.	100	—	7.02	223.4	185.0	17.1	5.6	-79.8
1035	0.75	90	—	6.11	212.9	25.6	17.5	2.0	-177.2
1050	1	90	—	6.06	207.5	15.08	17.6	2.1	-170.6
1103	1.2	90	—	6.05	207.1	9.21	17.7	2.1	-168.6
Region IV USEPA Recommended Stabilization Criteria				+/- 0.1	+/- 5%	+/- 10%/<10	NA	+/- 0.2 mg/L or +/- 10%	+/- 20
SCDHEC QAPP Stabilization Criteria				+/- 0.1	+/- 5%	+/- 5%/<10	+/- 5%	+/- 0.2 mg/L	NA

Sample ID: SB-2

Sample Date/Time: 2-15-22/1103

Analysis	Container	Number	Preservative
8260			HCl
NITRATE, SULF. CHL.			
DISS. Fe, Mg.			
HPC			

Comments: Fe^{2+}: 1.0 mg/L

HPC: 2/16, 1033

Notes:

1 - Well Volume = Length of water column X well diameter coefficient

Well Diameter Coefficients:

0.75" = 0.023 1" = 0.041 2" = 0.163

4" = 0.678 6" = 1.47 8" = 2.611

2 - Subjective: Clear/Low, Slight/Moderate, Heavy/Turbid

Groundwater Sampling Data Sheet

Well ID: SB-3

Date: 2-15-22

Field Meter ID No.		Well Information/Condition		Site Background Information	
pH:	—	Condition:	—	Client:	ASCLNI
Conductivity:	—	Well Locked:	—	Site Location:	GREENWOOD
Turbidity:	20612140	Well Cap:	—	Job Number:	ASC7031.R1
Multi Meter:	YSI PDC	Visible ID:	—	Analyst(s):	SCM
Other:	—	Casing Material:	(PVC) Steel	Weather:	SUNNY

Groundwater Elevation Data		Well Purging Data			
Well Diameter (in):	1	Purge Method:	(Low-Flow) / Volume Purge / No Purge (Grab)		
Depth to Water (ft btoc):	21.78	Pump Type:	(Peristaltic) / Bladder / Monsoon / Other:		
Depth to NAPL (ft btoc):	—	Bailer Type:	Teflon / HDPE		
Total Well Depth (ft btoc):	30.0	Well Screen Setting (ft btoc):	20-30	Purge Start:	1152
Length of Water Column (ft):		Tubing Intake (ft btoc):	26	Purge Stop:	1324
[1]Well Volume (gal):					

Drawdown				Water Quality Monitoring Parameters					
Time (hours)	Total Volume Purged (gallons)	Purge Rate (gpm or mL/min)	Depth to Water (ft btoc)	pH (units)	Conductivity (us/cm)	Turbidity (NTU/Subj[2])	Temperature (°C)	Dissolved Oxygen (mg/l)	ORP (mv)
1155	INITIAL	100	—	6.04	105.7	CLEAR	17.3	5.0	22.2
1230	1	100	-	5.95	164.4	22.8	19.0	3.0	-116.7
1310	2.2	100	-	5.74	160.0	8.52	19.8	3.4	-94.2
1318	2.3	100	-	5.74	160.1	9.05	19.7	3.3	-95.1
1324	2.5	100	—	5.74	160.2	7.44	19.7	3.3	-93.8
Region IV USEPA Recommended Stabilization Criteria				+/- 0.1	+/- 5%	+/- 10%/<10	NA	+/- 0.2 mg/L or +/- 10%	+/- 20
SCDHEC QAPP Stabilization Criteria				+/- 0.1	+/- 5%	+/- 5%/<10	+/- 5%	+/- 0.2 mg/L	NA

Sample ID: SB-3

Sample Date/Time: 2-15-22 / 1324

Analysis	Container	Number	Preservative

Comments: Fe^{2+}: 1.0 mg/L

HRC: 2/16, 104

Notes:

1 - Well Volume = Length of water column X well diameter coefficient

Well Diameter Coefficients:

0.75" = 0.023 1" = 0.041 2" = 0.163

4" = 0.678 6" = 1.47 8" = 2.611

2 - Subjective: Clear/Low, Slight/Moderate, Heavy/Turbid

Groundwater Sampling Data Sheet

Well ID: SB-12

Date: 2-15-22

Field Meter ID No.		Well Information/Condition		Site Background Information	
pH:	✓	Condition:	–	Client:	ASCEND
Conductivity:	–	Well Locked:	–	Site Location:	GREENWOOD
Turbidity:	2006 12,40	Well Cap:	–	Job Number:	ASC7031.01A
Multi Meter:	YSI PQC	Visible ID:	–	Analyst(s):	SLM
Other:	–	Casing Material:	PVC / Steel	Weather:	SLM

Groundwater Elevation Data		Well Purging Data		
Well Diameter (in):	1	Purge Method:	Low-Flow / Volume Purge / No Purge (Grab)	
Depth to Water (ft btoc):	20.88	Pump Type:	Peristaltic / Bladder / Monsoon / Other:	
Depth to NAPL (ft btoc):	–	Bailer Type:	Teflon / HDPE	
Total Well Depth (ft btoc):	30'	Well Screen Setting (ft btoc):	20-30	Purge Start: 1501
Length of Water Column (ft):		Tubing Intake (ft btoc):	26	Purge Stop: 1552
[1]Well Volume (gal):				

Drawdown				Water Quality Monitoring Parameters					
Time (hours)	Total Volume Purged (gallons)	Purge Rate (gpm or mL/min)	Depth to Water (ft btoc)	pH (units)	Conductivity (us/cm)	Turbidity (NTU/Subj[2])	Temperature (°C)	Dissolved Oxygen (mg/l)	ORP (mv)
1503	INIT	100	–	6.40	118.0	<1100	19.3	3.0	18.3
1534	0.6	100	–	5.34	100.7	–	19.1	1.2	-49.9
1543	0.75	100	–	5.28	93.7	–	19.1	1.3	-46.7
1549	0.8	100	–	5.27	92.8	–	19.1	1.3	-41.5
1556	1	100	–	5.26	90.8	–	19.1	1.4	-28.5
Region IV USEPA Recommended Stabilization Criteria				+/- 0.1	+/- 5%	+/- 10%/<10	NA	+/- 0.2 mg/L or +/- 10%	+/- 20
SCDHEC QAPP Stabilization Criteria				+/- 0.1	+/- 5%	+/- 5%/<10	+/- 5%	+/- 0.2 mg/L	NA

Sample ID: SB-12

Sample Date/Time: 2-15-22 / 1556

Analysis	Container	Number	Preservative

Comments: Fe^{2+}: 0.5 mg/L

HRC: 2/16, 1050

Notes:

1 - Well Volume = Length of water column X well diameter coefficient

Well Diameter Coefficients:

0.75" = 0.023 1" = 0.041 2" = 0.163

4" = 0.678 6" = 1.47 8' = 2.611

2 - Subjective: Clear/Low, Slight/Moderate, Heavy/Turbid

Groundwater Sampling Data Sheet

Well ID: SB-13

Date: 2-15-22

Field Meter ID No.		Well Information/Condition		Site Background Information	
pH:		Condition:	✓	Client:	ASCEND
Conductivity:		Well Locked:	✓	Site Location:	GREENWOOD, SC
Turbidity:	–	Well Cap:	✓	Job Number:	ASC7031.RA
Multi Meter:	YSI PRO	Visible ID:	–	Analyst(s):	SLM
Other:		Casing Material:	PVC / Steel	Weather:	

Groundwater Elevation Data		Well Purging Data			
Well Diameter (in):	1	Purge Method:	~~Low-Flow~~ / Volume Purge / No Purge (Grab)		
Depth to Water (ft btoc):	20.48	Pump Type:	Peristaltic / Bladder / Monsoon / Other:		
Depth to NAPL (ft btoc):	–	Bailer Type:	Teflon / HDPE		
Total Well Depth (ft btoc):	30	Well Screen Setting (ft btoc):	20-30	Purge Start:	1628
Length of Water Column (ft):		Tubing Intake (ft btoc):	26	Purge Stop:	1735
[1]Well Volume (gal):					

Drawdown				Water Quality Monitoring Parameters					
Time (hours)	Total Volume Purged (gallons)	Purge Rate (gpm or mL/min)	Depth to Water (ft btoc)	pH (units)	Conductivity (us/cm)	Turbidity (NTU/Subj[2])	Temperature (°C)	Dissolved Oxygen (mg/l)	ORP (mv)
1632	1 VOL.	100	–	5.98	171.3	–	19.6	3.7	-42.8
1650	0.6	100	–	5.89	160.8	–	19.4	3.8	-49.7
1725	1.2	100	–	5.79	151.2	–	19.1	3.9	-45.2
1730	1.3	100	–	5.78	152.9	–	19.1	3.8	-44.5
1735	1.4	100	–	5.77	151.8	–	19.1	3.8	-44.4
Region IV USEPA Recommended Stabilization Criteria				+/- 0.1	+/- 5%	+/- 10%/<10	NA	+/- 0.2 mg/L or +/- 10%	+/- 20
SCDHEC QAPP Stabilization Criteria				+/- 0.1	+/- 5%	+/- 5%/<10	+/- 5%	+/- 0.2 mg/L	NA

Sample ID: SB-13

Sample Date/Time: 2-15-22 / 1735

Analysis	Container	Number	Preservative

Comments: Fe^{2+}: <0.5 mg/L

MPC: 2.16, 1659

Notes:

1 - Well Volume = Length of water column X well diameter coefficient

Well Diameter Coefficients:

0.75" = 0.023 1" = 0.041 2" = 0.163

4" = 0.678 6" = 1.47 8" = 2.611

2 - Subjective: Clear/Low, Slight/Moderate, Heavy/Turbid

Groundwater Sampling Data Sheet

Well ID: SB-14

Date: 2-16-22

Field Meter ID No.		Well Information/Condition		Site Background Information	
pH:		Condition:	-	Client:	ASCEND
Conductivity:		Well Locked:	-	Site Location:	GREENWOOD, SC
Turbidity:	-	Well Cap:	-	Job Number:	ASC 703.1.RA
Multi Meter:	YSI PRO	Visible ID:	-	Analyst(s):	SLM
Other:		Casing Material:	PVC / Steel	Weather:	SUN, COLD

Groundwater Elevation Data		Well Purging Data		
Well Diameter (in):	1	Purge Method:	Low-Flow / Volume Purge / No Purge (Grab)	
Depth to Water (ft btoc):	20.52	Pump Type:	Peristaltic / Bladder / Monsoon / Other:	
Depth to NAPL (ft btoc):		Bailer Type:	Teflon / HDPE	
Total Well Depth (ft btoc):	30	Well Screen Setting (ft btoc):	20-30	Purge Start: 750
Length of Water Column (ft):		Tubing Intake (ft btoc):	~26	Purge Stop: 1022
[1]Well Volume (gal):				

Drawdown				Water Quality Monitoring Parameters					
Time (hours)	Total Volume Purged (gallons)	Purge Rate (gpm or mL/min)	Depth to Water (ft btoc)	pH (units)	Conductivity (us/cm)	Turbidity (NTU/Subj[2])	Temperature (°C)	Dissolved Oxygen (mg/l)	ORP (mv)
752	IN FT.	100	-	7.15	258.7	CLOUDY	14.2	8.0	-38.3
933	1.6	100	-	5.75	123.8	CLEAR	16.9	3.1	-119.3
1003	2.4	100	-	5.69	120.6	CLEAR	16.9	3.1	-107.3
1022	2.6	100	-	5.68	120.4	CLEAR	17.0	3.2	-109.1
								[illegible]	[illegible]
Region IV USEPA Recommended Stabilization Criteria				+/- 0.1	+/- 5%	+/- 10%/<10	NA	+/- 0.2 mg/L or +/- 10%	+/- 20
SCDHEC QAPP Stabilization Criteria				+/- 0.1	+/- 5%	+/- 5%/<10	+/- 5%	+/- 0.2 mg/L	NA

Sample ID: SB-14

Sample Date/Time: 2-16-22 / 1022

Comments: Fe^{2+}: 1.0 mg/L

Analysis	Container	Number	Preservative

Notes:

1 - Well Volume = Length of water column X well diameter coefficient

Well Diameter Coefficients:

0.75" = 0.023 1" = 0.041 2" = 0.163

4" = 0.678 6" = 1.47 8" = 2.611

2 - Subjective: Clear/Low, Slight/Moderate, Heavy/Turbid

APPENDIX D
Laboratory Analytical Reports

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

February 28, 2022

Samuel Muller
HRP
1327 Miller Road
Suite D
Greenville, SC 29607

RE: Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Dear Samuel Muller:

Enclosed are the analytical results for sample(s) received by the laboratory on February 17, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,

Bonnie Vang

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Mr. Jenny Mooney, HRP Associates, Inc.
EDD and Report, HRP Associates

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey 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 Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92588952001	SB-1(16)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952002	SB-2(12)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952003	SB-2(20)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952004	SB-2 (28)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952005	SB-3 (18)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952006	SB-3 (24)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952007	SB-5 (18)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952008	SB-7 (18)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952009	SB-9 (24)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952010	SB-11 (12)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952011	SB-11 (18)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952012	SB-12 (14)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952013	SB-12 (18)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952014	SB-13 (16)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952015	SB-13 (22)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952016	SB-14 (14)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952017	SB-14 (22)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952018	SB-16 (14)	EPA 8260D	SAS	70	PASI-C
		SW-846	KDF	1	PASI-C
92588952019	SB-17 (24)	EPA 8260D	SAS	70	PASI-C

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SAMPLE ANALYTE COUNT

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SW-846	KDF	1	PASI-C
92588952020	**SB-2**	EPA 6010D	RDT	2	PASI-A
		EPA 8260D	SAS	62	PASI-C
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92588952021	**SB-3**	EPA 6010D	RDT	2	PASI-A
		EPA 8260D	SAS	62	PASI-C
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92588952022	**SB-12**	EPA 6010D	RDT	2	PASI-A
		EPA 8260D	SAS	62	PASI-C
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92588952023	**SB-13**	EPA 6010D	RDT	2	PASI-A
		EPA 8260D	SAS	62	PASI-C
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92588952024	**SB-14**	EPA 6010D	RDT	2	PASI-A
		EPA 8260D	SAS	62	PASI-C
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte

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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-1(16) **Lab ID: 92588952001** Collected: 02/14/22 10:47 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	123	1	02/18/22 12:48	02/22/22 12:12	67-64-1	
Benzene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	71-43-2	
Bromobenzene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	108-86-1	
Bromochloromethane	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	74-97-5	
Bromodichloromethane	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	75-27-4	
Bromoform	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	75-25-2	
Bromomethane	ND	ug/kg	12.3	1	02/18/22 12:48	02/22/22 12:12	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	123	1	02/18/22 12:48	02/22/22 12:12	78-93-3	
n-Butylbenzene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	98-06-6	
Carbon tetrachloride	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	56-23-5	
Chlorobenzene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	108-90-7	
Chloroethane	ND	ug/kg	12.3	1	02/18/22 12:48	02/22/22 12:12	75-00-3	
Chloroform	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	67-66-3	
Chloromethane	ND	ug/kg	12.3	1	02/18/22 12:48	02/22/22 12:12	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	96-12-8	
Dibromochloromethane	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	106-93-4	
Dibromomethane	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	12.3	1	02/18/22 12:48	02/22/22 12:12	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	10061-02-6	
Diisopropyl ether	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	108-20-3	
Ethylbenzene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	12.3	1	02/18/22 12:48	02/22/22 12:12	87-68-3	
2-Hexanone	ND	ug/kg	61.3	1	02/18/22 12:48	02/22/22 12:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	99-87-6	
Methylene Chloride	ND	ug/kg	24.5	1	02/18/22 12:48	02/22/22 12:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	61.3	1	02/18/22 12:48	02/22/22 12:12	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-1(16) **Lab ID: 92588952001** Collected: 02/14/22 10:47 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	1634-04-4	
Naphthalene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	91-20-3	
n-Propylbenzene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	103-65-1	
Styrene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	79-34-5	
Tetrachloroethene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	127-18-4	
Toluene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	79-00-5	
Trichloroethene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	108-67-8	
Vinyl acetate	ND	ug/kg	61.3	1	02/18/22 12:48	02/22/22 12:12	108-05-4	
Vinyl chloride	ND	ug/kg	12.3	1	02/18/22 12:48	02/22/22 12:12	75-01-4	
Xylene (Total)	ND	ug/kg	12.3	1	02/18/22 12:48	02/22/22 12:12	1330-20-7	
m&p-Xylene	ND	ug/kg	12.3	1	02/18/22 12:48	02/22/22 12:12	179601-23-1	
o-Xylene	ND	ug/kg	6.1	1	02/18/22 12:48	02/22/22 12:12	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1	02/18/22 12:48	02/22/22 12:12	2037-26-5	
4-Bromofluorobenzene (S)	99	%	69-134	1	02/18/22 12:48	02/22/22 12:12	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1	02/18/22 12:48	02/22/22 12:12	17060-07-0	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**9.7**	%	0.10	1		02/18/22 15:48		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-2(12) **Lab ID: 92588952002** Collected: 02/14/22 12:01 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	186	1	02/18/22 12:48	02/22/22 12:48	67-64-1	
Benzene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	71-43-2	
Bromobenzene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	108-86-1	
Bromochloromethane	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	74-97-5	
Bromodichloromethane	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	75-27-4	
Bromoform	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	75-25-2	
Bromomethane	ND	ug/kg	18.6	1	02/18/22 12:48	02/22/22 12:48	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	186	1	02/18/22 12:48	02/22/22 12:48	78-93-3	
n-Butylbenzene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	104-51-8	
sec-Butylbenzene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	135-98-8	
tert-Butylbenzene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	98-06-6	
Carbon tetrachloride	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	56-23-5	
Chlorobenzene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	108-90-7	
Chloroethane	ND	ug/kg	18.6	1	02/18/22 12:48	02/22/22 12:48	75-00-3	
Chloroform	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	67-66-3	
Chloromethane	ND	ug/kg	18.6	1	02/18/22 12:48	02/22/22 12:48	74-87-3	
2-Chlorotoluene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	95-49-8	
4-Chlorotoluene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	96-12-8	
Dibromochloromethane	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	106-93-4	
Dibromomethane	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	18.6	1	02/18/22 12:48	02/22/22 12:48	75-71-8	
1,1-Dichloroethane	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	75-34-3	
1,2-Dichloroethane	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	107-06-2	
1,1-Dichloroethene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	156-60-5	
1,2-Dichloropropane	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	78-87-5	
1,3-Dichloropropane	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	142-28-9	
2,2-Dichloropropane	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	594-20-7	
1,1-Dichloropropene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	10061-02-6	
Diisopropyl ether	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	108-20-3	
Ethylbenzene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	18.6	1	02/18/22 12:48	02/22/22 12:48	87-68-3	
2-Hexanone	ND	ug/kg	92.8	1	02/18/22 12:48	02/22/22 12:48	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	98-82-8	
p-Isopropyltoluene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	99-87-6	
Methylene Chloride	ND	ug/kg	37.1	1	02/18/22 12:48	02/22/22 12:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	92.8	1	02/18/22 12:48	02/22/22 12:48	108-10-1	

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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-2(12) **Lab ID: 92588952002** Collected: 02/14/22 12:01 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	1634-04-4	
Naphthalene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	91-20-3	
n-Propylbenzene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	103-65-1	
Styrene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	79-34-5	
Tetrachloroethene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	127-18-4	
Toluene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	79-00-5	
Trichloroethene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	79-01-6	
Trichlorofluoromethane	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	108-67-8	
Vinyl acetate	ND	ug/kg	92.8	1	02/18/22 12:48	02/22/22 12:48	108-05-4	
Vinyl chloride	ND	ug/kg	18.6	1	02/18/22 12:48	02/22/22 12:48	75-01-4	
Xylene (Total)	ND	ug/kg	18.6	1	02/18/22 12:48	02/22/22 12:48	1330-20-7	
m&p-Xylene	ND	ug/kg	18.6	1	02/18/22 12:48	02/22/22 12:48	179601-23-1	
o-Xylene	ND	ug/kg	9.3	1	02/18/22 12:48	02/22/22 12:48	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1	02/18/22 12:48	02/22/22 12:48	2037-26-5	
4-Bromofluorobenzene (S)	95	%	69-134	1	02/18/22 12:48	02/22/22 12:48	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1	02/18/22 12:48	02/22/22 12:48	17060-07-0	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**10.1**	%	0.10	1		02/18/22 15:48		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-2(20) **Lab ID: 92588952003** Collected: 02/14/22 12:16 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	161	1	02/18/22 12:48	02/22/22 13:05	67-64-1	
Benzene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	71-43-2	
Bromobenzene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	108-86-1	
Bromochloromethane	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	74-97-5	
Bromodichloromethane	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	75-27-4	
Bromoform	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	75-25-2	
Bromomethane	ND	ug/kg	16.1	1	02/18/22 12:48	02/22/22 13:05	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	161	1	02/18/22 12:48	02/22/22 13:05	78-93-3	
n-Butylbenzene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	104-51-8	
sec-Butylbenzene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	135-98-8	
tert-Butylbenzene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	98-06-6	
Carbon tetrachloride	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	56-23-5	
Chlorobenzene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	108-90-7	
Chloroethane	ND	ug/kg	16.1	1	02/18/22 12:48	02/22/22 13:05	75-00-3	
Chloroform	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	67-66-3	
Chloromethane	ND	ug/kg	16.1	1	02/18/22 12:48	02/22/22 13:05	74-87-3	
2-Chlorotoluene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	95-49-8	
4-Chlorotoluene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	96-12-8	
Dibromochloromethane	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	106-93-4	
Dibromomethane	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	16.1	1	02/18/22 12:48	02/22/22 13:05	75-71-8	
1,1-Dichloroethane	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	75-34-3	
1,2-Dichloroethane	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	107-06-2	
1,1-Dichloroethene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	156-60-5	
1,2-Dichloropropane	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	78-87-5	
1,3-Dichloropropane	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	142-28-9	
2,2-Dichloropropane	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	594-20-7	
1,1-Dichloropropene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	10061-02-6	
Diisopropyl ether	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	108-20-3	
Ethylbenzene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	16.1	1	02/18/22 12:48	02/22/22 13:05	87-68-3	
2-Hexanone	ND	ug/kg	80.7	1	02/18/22 12:48	02/22/22 13:05	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	98-82-8	
p-Isopropyltoluene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	99-87-6	
Methylene Chloride	ND	ug/kg	32.3	1	02/18/22 12:48	02/22/22 13:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	80.7	1	02/18/22 12:48	02/22/22 13:05	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-2(20) **Lab ID: 92588952003** Collected: 02/14/22 12:16 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	1634-04-4	
Naphthalene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	91-20-3	
n-Propylbenzene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	103-65-1	
Styrene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	79-34-5	
Tetrachloroethene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	127-18-4	
Toluene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	79-00-5	
Trichloroethene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	79-01-6	
Trichlorofluoromethane	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	108-67-8	
Vinyl acetate	ND	ug/kg	80.7	1	02/18/22 12:48	02/22/22 13:05	108-05-4	
Vinyl chloride	ND	ug/kg	16.1	1	02/18/22 12:48	02/22/22 13:05	75-01-4	
Xylene (Total)	ND	ug/kg	16.1	1	02/18/22 12:48	02/22/22 13:05	1330-20-7	
m&p-Xylene	ND	ug/kg	16.1	1	02/18/22 12:48	02/22/22 13:05	179601-23-1	
o-Xylene	ND	ug/kg	8.1	1	02/18/22 12:48	02/22/22 13:05	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1	02/18/22 12:48	02/22/22 13:05	2037-26-5	
4-Bromofluorobenzene (S)	97	%	69-134	1	02/18/22 12:48	02/22/22 13:05	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1	02/18/22 12:48	02/22/22 13:05	17060-07-0	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**17.6**	%	0.10	1		02/18/22 15:48		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-2 (28) **Lab ID: 92588952004** Collected: 02/14/22 12:29 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	140	1	02/18/22 12:48	02/22/22 13:23	67-64-1	
Benzene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	71-43-2	
Bromobenzene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	108-86-1	
Bromochloromethane	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	74-97-5	
Bromodichloromethane	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	75-27-4	
Bromoform	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	75-25-2	
Bromomethane	ND	ug/kg	14.0	1	02/18/22 12:48	02/22/22 13:23	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	140	1	02/18/22 12:48	02/22/22 13:23	78-93-3	
n-Butylbenzene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	104-51-8	
sec-Butylbenzene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	135-98-8	
tert-Butylbenzene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	98-06-6	
Carbon tetrachloride	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	56-23-5	
Chlorobenzene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	108-90-7	
Chloroethane	ND	ug/kg	14.0	1	02/18/22 12:48	02/22/22 13:23	75-00-3	
Chloroform	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	67-66-3	
Chloromethane	ND	ug/kg	14.0	1	02/18/22 12:48	02/22/22 13:23	74-87-3	
2-Chlorotoluene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	95-49-8	
4-Chlorotoluene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	96-12-8	
Dibromochloromethane	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	106-93-4	
Dibromomethane	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	14.0	1	02/18/22 12:48	02/22/22 13:23	75-71-8	
1,1-Dichloroethane	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	78-87-5	
1,3-Dichloropropane	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	142-28-9	
2,2-Dichloropropane	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	594-20-7	
1,1-Dichloropropene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	10061-02-6	
Diisopropyl ether	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	108-20-3	
Ethylbenzene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	14.0	1	02/18/22 12:48	02/22/22 13:23	87-68-3	
2-Hexanone	ND	ug/kg	69.8	1	02/18/22 12:48	02/22/22 13:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	98-82-8	
p-Isopropyltoluene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	99-87-6	
Methylene Chloride	ND	ug/kg	27.9	1	02/18/22 12:48	02/22/22 13:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	69.8	1	02/18/22 12:48	02/22/22 13:23	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-2 (28) **Lab ID: 92588952004** Collected: 02/14/22 12:29 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	1634-04-4	
Naphthalene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	91-20-3	
n-Propylbenzene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	103-65-1	
Styrene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	79-34-5	
Tetrachloroethene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	127-18-4	
Toluene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	79-00-5	
Trichloroethene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	79-01-6	
Trichlorofluoromethane	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	108-67-8	
Vinyl acetate	ND	ug/kg	69.8	1	02/18/22 12:48	02/22/22 13:23	108-05-4	
Vinyl chloride	ND	ug/kg	14.0	1	02/18/22 12:48	02/22/22 13:23	75-01-4	
Xylene (Total)	ND	ug/kg	14.0	1	02/18/22 12:48	02/22/22 13:23	1330-20-7	
m&p-Xylene	ND	ug/kg	14.0	1	02/18/22 12:48	02/22/22 13:23	179601-23-1	
o-Xylene	ND	ug/kg	7.0	1	02/18/22 12:48	02/22/22 13:23	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1	02/18/22 12:48	02/22/22 13:23	2037-26-5	
4-Bromofluorobenzene (S)	99	%	69-134	1	02/18/22 12:48	02/22/22 13:23	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1	02/18/22 12:48	02/22/22 13:23	17060-07-0	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**12.1**	%	0.10	1		02/18/22 15:48		N2

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-3 (18) **Lab ID: 92588952005** Collected: 02/14/22 13:19 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	137	1	02/18/22 12:48	02/22/22 13:41	67-64-1	
Benzene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	71-43-2	
Bromobenzene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	108-86-1	
Bromochloromethane	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	74-97-5	
Bromodichloromethane	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	75-27-4	
Bromoform	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	75-25-2	
Bromomethane	ND	ug/kg	13.7	1	02/18/22 12:48	02/22/22 13:41	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	137	1	02/18/22 12:48	02/22/22 13:41	78-93-3	
n-Butylbenzene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	98-06-6	
Carbon tetrachloride	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	56-23-5	
Chlorobenzene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	108-90-7	
Chloroethane	ND	ug/kg	13.7	1	02/18/22 12:48	02/22/22 13:41	75-00-3	
Chloroform	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	67-66-3	
Chloromethane	ND	ug/kg	13.7	1	02/18/22 12:48	02/22/22 13:41	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	96-12-8	
Dibromochloromethane	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	106-93-4	
Dibromomethane	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	13.7	1	02/18/22 12:48	02/22/22 13:41	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	10061-02-6	
Diisopropyl ether	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	108-20-3	
Ethylbenzene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	13.7	1	02/18/22 12:48	02/22/22 13:41	87-68-3	
2-Hexanone	ND	ug/kg	68.7	1	02/18/22 12:48	02/22/22 13:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	99-87-6	
Methylene Chloride	ND	ug/kg	27.5	1	02/18/22 12:48	02/22/22 13:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	68.7	1	02/18/22 12:48	02/22/22 13:41	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-3 (18) **Lab ID: 92588952005** Collected: 02/14/22 13:19 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	1634-04-4	
Naphthalene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	91-20-3	
n-Propylbenzene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	103-65-1	
Styrene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	79-34-5	
Tetrachloroethene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	127-18-4	
Toluene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	79-00-5	
Trichloroethene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	108-67-8	
Vinyl acetate	ND	ug/kg	68.7	1	02/18/22 12:48	02/22/22 13:41	108-05-4	
Vinyl chloride	ND	ug/kg	13.7	1	02/18/22 12:48	02/22/22 13:41	75-01-4	
Xylene (Total)	ND	ug/kg	13.7	1	02/18/22 12:48	02/22/22 13:41	1330-20-7	
m&p-Xylene	ND	ug/kg	13.7	1	02/18/22 12:48	02/22/22 13:41	179601-23-1	
o-Xylene	ND	ug/kg	6.9	1	02/18/22 12:48	02/22/22 13:41	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1	02/18/22 12:48	02/22/22 13:41	2037-26-5	
4-Bromofluorobenzene (S)	99	%	69-134	1	02/18/22 12:48	02/22/22 13:41	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1	02/18/22 12:48	02/22/22 13:41	17060-07-0	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**11.9**	%	0.10	1		02/18/22 15:48		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-3 (24) **Lab ID: 92588952006** Collected: 02/14/22 13:28 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	110	1	02/18/22 12:48	02/22/22 13:58	67-64-1	
Benzene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	71-43-2	
Bromobenzene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	108-86-1	
Bromochloromethane	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	74-97-5	
Bromodichloromethane	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	75-27-4	
Bromoform	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	75-25-2	
Bromomethane	ND	ug/kg	11.0	1	02/18/22 12:48	02/22/22 13:58	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	110	1	02/18/22 12:48	02/22/22 13:58	78-93-3	
n-Butylbenzene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	108-90-7	
Chloroethane	ND	ug/kg	11.0	1	02/18/22 12:48	02/22/22 13:58	75-00-3	
Chloroform	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	67-66-3	
Chloromethane	ND	ug/kg	11.0	1	02/18/22 12:48	02/22/22 13:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	96-12-8	
Dibromochloromethane	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	106-93-4	
Dibromomethane	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.0	1	02/18/22 12:48	02/22/22 13:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	108-20-3	
Ethylbenzene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	11.0	1	02/18/22 12:48	02/22/22 13:58	87-68-3	
2-Hexanone	ND	ug/kg	54.8	1	02/18/22 12:48	02/22/22 13:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	99-87-6	
Methylene Chloride	ND	ug/kg	21.9	1	02/18/22 12:48	02/22/22 13:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	54.8	1	02/18/22 12:48	02/22/22 13:58	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-3 (24) **Lab ID: 92588952006** Collected: 02/14/22 13:28 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	1634-04-4	
Naphthalene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	91-20-3	
n-Propylbenzene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	103-65-1	
Styrene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	79-34-5	
Tetrachloroethene	**9.2**	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	127-18-4	
Toluene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	79-00-5	
Trichloroethene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	108-67-8	
Vinyl acetate	ND	ug/kg	54.8	1	02/18/22 12:48	02/22/22 13:58	108-05-4	
Vinyl chloride	ND	ug/kg	11.0	1	02/18/22 12:48	02/22/22 13:58	75-01-4	
Xylene (Total)	ND	ug/kg	11.0	1	02/18/22 12:48	02/22/22 13:58	1330-20-7	
m&p-Xylene	ND	ug/kg	11.0	1	02/18/22 12:48	02/22/22 13:58	179601-23-1	
o-Xylene	ND	ug/kg	5.5	1	02/18/22 12:48	02/22/22 13:58	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1	02/18/22 12:48	02/22/22 13:58	2037-26-5	
4-Bromofluorobenzene (S)	99	%	69-134	1	02/18/22 12:48	02/22/22 13:58	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1	02/18/22 12:48	02/22/22 13:58	17060-07-0	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**12.4**	%	0.10	1		02/18/22 15:48		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-5 (18) **Lab ID: 92588952007** Collected: 02/14/22 15:20 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	165	1	02/18/22 12:48	02/22/22 14:16	67-64-1	
Benzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	71-43-2	
Bromobenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	108-86-1	
Bromochloromethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	74-97-5	
Bromodichloromethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	75-27-4	
Bromoform	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	75-25-2	
Bromomethane	ND	ug/kg	16.5	1	02/18/22 12:48	02/22/22 14:16	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	165	1	02/18/22 12:48	02/22/22 14:16	78-93-3	
n-Butylbenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	104-51-8	
sec-Butylbenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	135-98-8	
tert-Butylbenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	98-06-6	
Carbon tetrachloride	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	56-23-5	
Chlorobenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	108-90-7	
Chloroethane	ND	ug/kg	16.5	1	02/18/22 12:48	02/22/22 14:16	75-00-3	
Chloroform	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	67-66-3	
Chloromethane	ND	ug/kg	16.5	1	02/18/22 12:48	02/22/22 14:16	74-87-3	
2-Chlorotoluene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	95-49-8	
4-Chlorotoluene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	96-12-8	
Dibromochloromethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	106-93-4	
Dibromomethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	16.5	1	02/18/22 12:48	02/22/22 14:16	75-71-8	
1,1-Dichloroethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	75-34-3	
1,2-Dichloroethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	107-06-2	
1,1-Dichloroethene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	156-60-5	
1,2-Dichloropropane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	78-87-5	
1,3-Dichloropropane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	142-28-9	
2,2-Dichloropropane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	594-20-7	
1,1-Dichloropropene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	10061-02-6	
Diisopropyl ether	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	108-20-3	
Ethylbenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	16.5	1	02/18/22 12:48	02/22/22 14:16	87-68-3	
2-Hexanone	ND	ug/kg	82.5	1	02/18/22 12:48	02/22/22 14:16	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	98-82-8	
p-Isopropyltoluene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	99-87-6	
Methylene Chloride	ND	ug/kg	33.0	1	02/18/22 12:48	02/22/22 14:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	82.5	1	02/18/22 12:48	02/22/22 14:16	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-5 (18) **Lab ID: 92588952007** Collected: 02/14/22 15:20 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B							
	Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	1634-04-4	
Naphthalene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	91-20-3	
n-Propylbenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	103-65-1	
Styrene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	79-34-5	
Tetrachloroethene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	127-18-4	
Toluene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	79-00-5	
Trichloroethene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	79-01-6	
Trichlorofluoromethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	108-67-8	
Vinyl acetate	ND	ug/kg	82.5	1	02/18/22 12:48	02/22/22 14:16	108-05-4	
Vinyl chloride	ND	ug/kg	16.5	1	02/18/22 12:48	02/22/22 14:16	75-01-4	
Xylene (Total)	ND	ug/kg	16.5	1	02/18/22 12:48	02/22/22 14:16	1330-20-7	
m&p-Xylene	ND	ug/kg	16.5	1	02/18/22 12:48	02/22/22 14:16	179601-23-1	
o-Xylene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 14:16	95-47-6	
Surrogates								
Toluene-d8 (S)	99	%	70-130	1	02/18/22 12:48	02/22/22 14:16	2037-26-5	
4-Bromofluorobenzene (S)	98	%	69-134	1	02/18/22 12:48	02/22/22 14:16	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1	02/18/22 12:48	02/22/22 14:16	17060-07-0	
Percent Moisture	Analytical Method: SW-846							
	Pace Analytical Services - Charlotte							
Percent Moisture	**26.3**	%	0.10	1		02/18/22 15:48		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-7 (18) **Lab ID: 92588952008** Collected: 02/15/22 08:48 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	157	1	02/18/22 12:48	02/22/22 14:34	67-64-1	
Benzene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	71-43-2	
Bromobenzene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	108-86-1	
Bromochloromethane	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	74-97-5	
Bromodichloromethane	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	75-27-4	
Bromoform	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	75-25-2	
Bromomethane	ND	ug/kg	15.7	1	02/18/22 12:48	02/22/22 14:34	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	157	1	02/18/22 12:48	02/22/22 14:34	78-93-3	
n-Butylbenzene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	104-51-8	
sec-Butylbenzene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	135-98-8	
tert-Butylbenzene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	98-06-6	
Carbon tetrachloride	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	56-23-5	
Chlorobenzene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	108-90-7	
Chloroethane	ND	ug/kg	15.7	1	02/18/22 12:48	02/22/22 14:34	75-00-3	
Chloroform	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	67-66-3	
Chloromethane	ND	ug/kg	15.7	1	02/18/22 12:48	02/22/22 14:34	74-87-3	
2-Chlorotoluene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	95-49-8	
4-Chlorotoluene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	96-12-8	
Dibromochloromethane	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	106-93-4	
Dibromomethane	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	15.7	1	02/18/22 12:48	02/22/22 14:34	75-71-8	
1,1-Dichloroethane	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	107-06-2	
1,1-Dichloroethene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	78-87-5	
1,3-Dichloropropane	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	142-28-9	
2,2-Dichloropropane	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	594-20-7	
1,1-Dichloropropene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	10061-02-6	
Diisopropyl ether	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	108-20-3	
Ethylbenzene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	15.7	1	02/18/22 12:48	02/22/22 14:34	87-68-3	
2-Hexanone	ND	ug/kg	78.5	1	02/18/22 12:48	02/22/22 14:34	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	98-82-8	
p-Isopropyltoluene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	99-87-6	
Methylene Chloride	ND	ug/kg	31.4	1	02/18/22 12:48	02/22/22 14:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	78.5	1	02/18/22 12:48	02/22/22 14:34	108-10-1	

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-7 (18) **Lab ID: 92588952008** Collected: 02/15/22 08:48 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	1634-04-4	
Naphthalene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	91-20-3	
n-Propylbenzene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	103-65-1	
Styrene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	79-34-5	
Tetrachloroethene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	127-18-4	
Toluene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	79-00-5	
Trichloroethene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	79-01-6	
Trichlorofluoromethane	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	108-67-8	
Vinyl acetate	ND	ug/kg	78.5	1	02/18/22 12:48	02/22/22 14:34	108-05-4	
Vinyl chloride	ND	ug/kg	15.7	1	02/18/22 12:48	02/22/22 14:34	75-01-4	
Xylene (Total)	ND	ug/kg	15.7	1	02/18/22 12:48	02/22/22 14:34	1330-20-7	
m&p-Xylene	ND	ug/kg	15.7	1	02/18/22 12:48	02/22/22 14:34	179601-23-1	
o-Xylene	ND	ug/kg	7.8	1	02/18/22 12:48	02/22/22 14:34	95-47-6	
Surrogates								
Toluene-d8 (S)	99	%	70-130	1	02/18/22 12:48	02/22/22 14:34	2037-26-5	
4-Bromofluorobenzene (S)	98	%	69-134	1	02/18/22 12:48	02/22/22 14:34	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1	02/18/22 12:48	02/22/22 14:34	17060-07-0	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**18.1**	%	0.10	1		02/18/22 16:09		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-9 (24) **Lab ID: 92588952009** Collected: 02/15/22 10:21 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	200	1	02/18/22 12:48	02/22/22 14:52	67-64-1	
Benzene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	71-43-2	
Bromobenzene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	108-86-1	
Bromochloromethane	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	74-97-5	
Bromodichloromethane	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	75-27-4	
Bromoform	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	75-25-2	
Bromomethane	ND	ug/kg	20.0	1	02/18/22 12:48	02/22/22 14:52	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	200	1	02/18/22 12:48	02/22/22 14:52	78-93-3	
n-Butylbenzene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	104-51-8	
sec-Butylbenzene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	135-98-8	
tert-Butylbenzene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	98-06-6	
Carbon tetrachloride	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	56-23-5	
Chlorobenzene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	108-90-7	
Chloroethane	ND	ug/kg	20.0	1	02/18/22 12:48	02/22/22 14:52	75-00-3	
Chloroform	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	67-66-3	
Chloromethane	ND	ug/kg	20.0	1	02/18/22 12:48	02/22/22 14:52	74-87-3	
2-Chlorotoluene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	95-49-8	
4-Chlorotoluene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	96-12-8	
Dibromochloromethane	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	106-93-4	
Dibromomethane	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	20.0	1	02/18/22 12:48	02/22/22 14:52	75-71-8	
1,1-Dichloroethane	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	75-34-3	
1,2-Dichloroethane	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	107-06-2	
1,1-Dichloroethene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	156-60-5	
1,2-Dichloropropane	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	78-87-5	
1,3-Dichloropropane	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	142-28-9	
2,2-Dichloropropane	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	594-20-7	
1,1-Dichloropropene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	10061-02-6	
Diisopropyl ether	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	108-20-3	
Ethylbenzene	**15.5**	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	20.0	1	02/18/22 12:48	02/22/22 14:52	87-68-3	
2-Hexanone	ND	ug/kg	100	1	02/18/22 12:48	02/22/22 14:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	98-82-8	
p-Isopropyltoluene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	99-87-6	
Methylene Chloride	ND	ug/kg	40.0	1	02/18/22 12:48	02/22/22 14:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	100	1	02/18/22 12:48	02/22/22 14:52	108-10-1	

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-9 (24) **Lab ID: 92588952009** Collected: 02/15/22 10:21 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	1634-04-4	
Naphthalene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	91-20-3	
n-Propylbenzene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	103-65-1	
Styrene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	79-34-5	
Tetrachloroethene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	127-18-4	
Toluene	**15.3**	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	79-00-5	
Trichloroethene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	79-01-6	
Trichlorofluoromethane	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	108-67-8	
Vinyl acetate	ND	ug/kg	100	1	02/18/22 12:48	02/22/22 14:52	108-05-4	
Vinyl chloride	ND	ug/kg	20.0	1	02/18/22 12:48	02/22/22 14:52	75-01-4	
Xylene (Total)	**87.2**	ug/kg	20.0	1	02/18/22 12:48	02/22/22 14:52	1330-20-7	
m&p-Xylene	**68.4**	ug/kg	20.0	1	02/18/22 12:48	02/22/22 14:52	179601-23-1	
o-Xylene	**18.8**	ug/kg	10	1	02/18/22 12:48	02/22/22 14:52	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1	02/18/22 12:48	02/22/22 14:52	2037-26-5	
4-Bromofluorobenzene (S)	98	%	69-134	1	02/18/22 12:48	02/22/22 14:52	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1	02/18/22 12:48	02/22/22 14:52	17060-07-0	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**23.5**	%	0.10	1		02/18/22 16:09		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-11 (12) **Lab ID: 92588952010** Collected: 02/15/22 12:35 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	190	1	02/18/22 12:48	02/22/22 15:09	67-64-1	
Benzene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	71-43-2	
Bromobenzene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	108-86-1	
Bromochloromethane	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	74-97-5	
Bromodichloromethane	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	75-27-4	
Bromoform	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	75-25-2	
Bromomethane	ND	ug/kg	19.0	1	02/18/22 12:48	02/22/22 15:09	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	190	1	02/18/22 12:48	02/22/22 15:09	78-93-3	
n-Butylbenzene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	104-51-8	
sec-Butylbenzene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	135-98-8	
tert-Butylbenzene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	98-06-6	
Carbon tetrachloride	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	56-23-5	
Chlorobenzene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	108-90-7	
Chloroethane	ND	ug/kg	19.0	1	02/18/22 12:48	02/22/22 15:09	75-00-3	
Chloroform	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	67-66-3	
Chloromethane	ND	ug/kg	19.0	1	02/18/22 12:48	02/22/22 15:09	74-87-3	
2-Chlorotoluene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	95-49-8	
4-Chlorotoluene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	96-12-8	
Dibromochloromethane	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	106-93-4	
Dibromomethane	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	19.0	1	02/18/22 12:48	02/22/22 15:09	75-71-8	
1,1-Dichloroethane	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	156-60-5	
1,2-Dichloropropane	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	78-87-5	
1,3-Dichloropropane	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	142-28-9	
2,2-Dichloropropane	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	594-20-7	
1,1-Dichloropropene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	10061-02-6	
Diisopropyl ether	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	108-20-3	
Ethylbenzene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	19.0	1	02/18/22 12:48	02/22/22 15:09	87-68-3	
2-Hexanone	ND	ug/kg	94.8	1	02/18/22 12:48	02/22/22 15:09	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	98-82-8	
p-Isopropyltoluene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	99-87-6	
Methylene Chloride	ND	ug/kg	37.9	1	02/18/22 12:48	02/22/22 15:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	94.8	1	02/18/22 12:48	02/22/22 15:09	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-11 (12) **Lab ID: 92588952010** Collected: 02/15/22 12:35 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	1634-04-4	
Naphthalene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	91-20-3	
n-Propylbenzene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	103-65-1	
Styrene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	79-34-5	
Tetrachloroethene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	127-18-4	
Toluene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	79-00-5	
Trichloroethene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	79-01-6	
Trichlorofluoromethane	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	108-67-8	
Vinyl acetate	ND	ug/kg	94.8	1	02/18/22 12:48	02/22/22 15:09	108-05-4	
Vinyl chloride	ND	ug/kg	19.0	1	02/18/22 12:48	02/22/22 15:09	75-01-4	
Xylene (Total)	ND	ug/kg	19.0	1	02/18/22 12:48	02/22/22 15:09	1330-20-7	
m&p-Xylene	ND	ug/kg	19.0	1	02/18/22 12:48	02/22/22 15:09	179601-23-1	
o-Xylene	ND	ug/kg	9.5	1	02/18/22 12:48	02/22/22 15:09	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%	70-130	1	02/18/22 12:48	02/22/22 15:09	2037-26-5	
4-Bromofluorobenzene (S)	98	%	69-134	1	02/18/22 12:48	02/22/22 15:09	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1	02/18/22 12:48	02/22/22 15:09	17060-07-0	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**23.3**	%	0.10	1		02/18/22 16:09		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-11 (18) **Lab ID: 92588952011** Collected: 02/15/22 12:46 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	183	1	02/18/22 12:48	02/22/22 15:27	67-64-1	
Benzene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	71-43-2	
Bromobenzene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	108-86-1	
Bromochloromethane	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	74-97-5	
Bromodichloromethane	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	75-27-4	
Bromoform	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	75-25-2	
Bromomethane	ND	ug/kg	18.3	1	02/18/22 12:48	02/22/22 15:27	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	183	1	02/18/22 12:48	02/22/22 15:27	78-93-3	
n-Butylbenzene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	98-06-6	
Carbon tetrachloride	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	56-23-5	
Chlorobenzene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	108-90-7	
Chloroethane	ND	ug/kg	18.3	1	02/18/22 12:48	02/22/22 15:27	75-00-3	
Chloroform	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	67-66-3	
Chloromethane	ND	ug/kg	18.3	1	02/18/22 12:48	02/22/22 15:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	96-12-8	
Dibromochloromethane	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	106-93-4	
Dibromomethane	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	18.3	1	02/18/22 12:48	02/22/22 15:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	10061-02-6	
Diisopropyl ether	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	108-20-3	
Ethylbenzene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	18.3	1	02/18/22 12:48	02/22/22 15:27	87-68-3	
2-Hexanone	ND	ug/kg	91.6	1	02/18/22 12:48	02/22/22 15:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	99-87-6	
Methylene Chloride	ND	ug/kg	36.6	1	02/18/22 12:48	02/22/22 15:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	91.6	1	02/18/22 12:48	02/22/22 15:27	108-10-1	

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-11 (18) **Lab ID: 92588952011** Collected: 02/15/22 12:46 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	1634-04-4	
Naphthalene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	91-20-3	
n-Propylbenzene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	103-65-1	
Styrene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	79-34-5	
Tetrachloroethene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	127-18-4	
Toluene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	79-00-5	
Trichloroethene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	108-67-8	
Vinyl acetate	ND	ug/kg	91.6	1	02/18/22 12:48	02/22/22 15:27	108-05-4	
Vinyl chloride	ND	ug/kg	18.3	1	02/18/22 12:48	02/22/22 15:27	75-01-4	
Xylene (Total)	ND	ug/kg	18.3	1	02/18/22 12:48	02/22/22 15:27	1330-20-7	
m&p-Xylene	ND	ug/kg	18.3	1	02/18/22 12:48	02/22/22 15:27	179601-23-1	
o-Xylene	ND	ug/kg	9.2	1	02/18/22 12:48	02/22/22 15:27	95-47-6	
Surrogates								
Toluene-d8 (S)	99	%	70-130	1	02/18/22 12:48	02/22/22 15:27	2037-26-5	
4-Bromofluorobenzene (S)	99	%	69-134	1	02/18/22 12:48	02/22/22 15:27	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1	02/18/22 12:48	02/22/22 15:27	17060-07-0	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**22.9**	%	0.10	1		02/18/22 16:10		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-12 (14) **Lab ID: 92588952012** Collected: 02/15/22 13:05 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	216	1	02/18/22 12:48	02/22/22 15:44	67-64-1	
Benzene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	71-43-2	
Bromobenzene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	108-86-1	
Bromochloromethane	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	74-97-5	
Bromodichloromethane	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	75-27-4	
Bromoform	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	75-25-2	
Bromomethane	ND	ug/kg	21.6	1	02/18/22 12:48	02/22/22 15:44	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	216	1	02/18/22 12:48	02/22/22 15:44	78-93-3	
n-Butylbenzene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	104-51-8	
sec-Butylbenzene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	135-98-8	
tert-Butylbenzene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	98-06-6	
Carbon tetrachloride	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	56-23-5	
Chlorobenzene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	108-90-7	
Chloroethane	ND	ug/kg	21.6	1	02/18/22 12:48	02/22/22 15:44	75-00-3	
Chloroform	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	67-66-3	
Chloromethane	ND	ug/kg	21.6	1	02/18/22 12:48	02/22/22 15:44	74-87-3	
2-Chlorotoluene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	95-49-8	
4-Chlorotoluene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	96-12-8	
Dibromochloromethane	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	106-93-4	
Dibromomethane	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	21.6	1	02/18/22 12:48	02/22/22 15:44	75-71-8	
1,1-Dichloroethane	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	75-34-3	
1,2-Dichloroethane	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	107-06-2	
1,1-Dichloroethene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	156-60-5	
1,2-Dichloropropane	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	78-87-5	
1,3-Dichloropropane	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	142-28-9	
2,2-Dichloropropane	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	594-20-7	
1,1-Dichloropropene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	10061-02-6	
Diisopropyl ether	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	108-20-3	
Ethylbenzene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	21.6	1	02/18/22 12:48	02/22/22 15:44	87-68-3	
2-Hexanone	ND	ug/kg	108	1	02/18/22 12:48	02/22/22 15:44	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	98-82-8	
p-Isopropyltoluene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	99-87-6	
Methylene Chloride	ND	ug/kg	43.2	1	02/18/22 12:48	02/22/22 15:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	108	1	02/18/22 12:48	02/22/22 15:44	108-10-1	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-12 (14) **Lab ID: 92588952012** Collected: 02/15/22 13:05 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B							
	Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	1634-04-4	
Naphthalene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	91-20-3	
n-Propylbenzene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	103-65-1	
Styrene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	79-34-5	
Tetrachloroethene	**13.2**	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	127-18-4	
Toluene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	79-00-5	
Trichloroethene	**42.0**	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	79-01-6	
Trichlorofluoromethane	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	108-67-8	
Vinyl acetate	ND	ug/kg	108	1	02/18/22 12:48	02/22/22 15:44	108-05-4	
Vinyl chloride	ND	ug/kg	21.6	1	02/18/22 12:48	02/22/22 15:44	75-01-4	
Xylene (Total)	ND	ug/kg	21.6	1	02/18/22 12:48	02/22/22 15:44	1330-20-7	
m&p-Xylene	ND	ug/kg	21.6	1	02/18/22 12:48	02/22/22 15:44	179601-23-1	
o-Xylene	ND	ug/kg	10.8	1	02/18/22 12:48	02/22/22 15:44	95-47-6	
Surrogates								
Toluene-d8 (S)	99	%	70-130	1	02/18/22 12:48	02/22/22 15:44	2037-26-5	
4-Bromofluorobenzene (S)	99	%	69-134	1	02/18/22 12:48	02/22/22 15:44	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1	02/18/22 12:48	02/22/22 15:44	17060-07-0	
Percent Moisture	Analytical Method: SW-846							
	Pace Analytical Services - Charlotte							
Percent Moisture	**27.7**	%	0.10	1		02/18/22 16:10		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-12 (18) **Lab ID: 92588952013** Collected: 02/15/22 13:21 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	182	1	02/18/22 12:48	02/22/22 16:02	67-64-1	
Benzene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	71-43-2	
Bromobenzene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	108-86-1	
Bromochloromethane	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	74-97-5	
Bromodichloromethane	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	75-27-4	
Bromoform	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	75-25-2	
Bromomethane	ND	ug/kg	18.2	1	02/18/22 12:48	02/22/22 16:02	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	182	1	02/18/22 12:48	02/22/22 16:02	78-93-3	
n-Butylbenzene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	104-51-8	
sec-Butylbenzene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	135-98-8	
tert-Butylbenzene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	98-06-6	
Carbon tetrachloride	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	56-23-5	
Chlorobenzene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	108-90-7	
Chloroethane	ND	ug/kg	18.2	1	02/18/22 12:48	02/22/22 16:02	75-00-3	
Chloroform	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	67-66-3	
Chloromethane	ND	ug/kg	18.2	1	02/18/22 12:48	02/22/22 16:02	74-87-3	
2-Chlorotoluene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	95-49-8	
4-Chlorotoluene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	96-12-8	
Dibromochloromethane	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	106-93-4	
Dibromomethane	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	18.2	1	02/18/22 12:48	02/22/22 16:02	75-71-8	
1,1-Dichloroethane	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	75-34-3	
1,2-Dichloroethane	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	107-06-2	
1,1-Dichloroethene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	156-60-5	
1,2-Dichloropropane	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	78-87-5	
1,3-Dichloropropane	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	142-28-9	
2,2-Dichloropropane	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	594-20-7	
1,1-Dichloropropene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	10061-02-6	
Diisopropyl ether	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	108-20-3	
Ethylbenzene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	18.2	1	02/18/22 12:48	02/22/22 16:02	87-68-3	
2-Hexanone	ND	ug/kg	90.9	1	02/18/22 12:48	02/22/22 16:02	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	98-82-8	
p-Isopropyltoluene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	99-87-6	
Methylene Chloride	ND	ug/kg	36.3	1	02/18/22 12:48	02/22/22 16:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	90.9	1	02/18/22 12:48	02/22/22 16:02	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-12 (18) **Lab ID: 92588952013** Collected: 02/15/22 13:21 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	1634-04-4	
Naphthalene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	91-20-3	
n-Propylbenzene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	103-65-1	
Styrene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	79-34-5	
Tetrachloroethene	**16.5**	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	127-18-4	
Toluene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	79-00-5	
Trichloroethene	**95.5**	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	79-01-6	
Trichlorofluoromethane	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	108-67-8	
Vinyl acetate	ND	ug/kg	90.9	1	02/18/22 12:48	02/22/22 16:02	108-05-4	
Vinyl chloride	ND	ug/kg	18.2	1	02/18/22 12:48	02/22/22 16:02	75-01-4	
Xylene (Total)	ND	ug/kg	18.2	1	02/18/22 12:48	02/22/22 16:02	1330-20-7	
m&p-Xylene	ND	ug/kg	18.2	1	02/18/22 12:48	02/22/22 16:02	179601-23-1	
o-Xylene	ND	ug/kg	9.1	1	02/18/22 12:48	02/22/22 16:02	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1	02/18/22 12:48	02/22/22 16:02	2037-26-5	
4-Bromofluorobenzene (S)	99	%	69-134	1	02/18/22 12:48	02/22/22 16:02	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1	02/18/22 12:48	02/22/22 16:02	17060-07-0	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**23.0**	%	0.10	1		02/18/22 16:10		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-13 (16) **Lab ID: 92588952014** Collected: 02/15/22 14:04 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	167	1	02/18/22 12:48	02/22/22 16:20	67-64-1	
Benzene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	71-43-2	
Bromobenzene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	108-86-1	
Bromochloromethane	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	74-97-5	
Bromodichloromethane	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	75-27-4	
Bromoform	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	75-25-2	
Bromomethane	ND	ug/kg	16.7	1	02/18/22 12:48	02/22/22 16:20	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	167	1	02/18/22 12:48	02/22/22 16:20	78-93-3	
n-Butylbenzene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	104-51-8	
sec-Butylbenzene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	135-98-8	
tert-Butylbenzene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	98-06-6	
Carbon tetrachloride	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	56-23-5	
Chlorobenzene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	108-90-7	
Chloroethane	ND	ug/kg	16.7	1	02/18/22 12:48	02/22/22 16:20	75-00-3	
Chloroform	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	67-66-3	
Chloromethane	ND	ug/kg	16.7	1	02/18/22 12:48	02/22/22 16:20	74-87-3	
2-Chlorotoluene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	95-49-8	
4-Chlorotoluene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	96-12-8	
Dibromochloromethane	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	106-93-4	
Dibromomethane	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	16.7	1	02/18/22 12:48	02/22/22 16:20	75-71-8	
1,1-Dichloroethane	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	75-34-3	
1,2-Dichloroethane	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	107-06-2	
1,1-Dichloroethene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	156-60-5	
1,2-Dichloropropane	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	78-87-5	
1,3-Dichloropropane	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	142-28-9	
2,2-Dichloropropane	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	594-20-7	
1,1-Dichloropropene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	10061-02-6	
Diisopropyl ether	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	108-20-3	
Ethylbenzene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	16.7	1	02/18/22 12:48	02/22/22 16:20	87-68-3	
2-Hexanone	ND	ug/kg	83.6	1	02/18/22 12:48	02/22/22 16:20	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	98-82-8	
p-Isopropyltoluene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	99-87-6	
Methylene Chloride	ND	ug/kg	33.4	1	02/18/22 12:48	02/22/22 16:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	83.6	1	02/18/22 12:48	02/22/22 16:20	108-10-1	

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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-13 (16) **Lab ID: 92588952014** Collected: 02/15/22 14:04 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	1634-04-4	
Naphthalene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	91-20-3	
n-Propylbenzene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	103-65-1	
Styrene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	79-34-5	
Tetrachloroethene	**91.3**	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	127-18-4	
Toluene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	79-00-5	
Trichloroethene	**431**	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	79-01-6	
Trichlorofluoromethane	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	108-67-8	
Vinyl acetate	ND	ug/kg	83.6	1	02/18/22 12:48	02/22/22 16:20	108-05-4	
Vinyl chloride	ND	ug/kg	16.7	1	02/18/22 12:48	02/22/22 16:20	75-01-4	
Xylene (Total)	ND	ug/kg	16.7	1	02/18/22 12:48	02/22/22 16:20	1330-20-7	
m&p-Xylene	ND	ug/kg	16.7	1	02/18/22 12:48	02/22/22 16:20	179601-23-1	
o-Xylene	ND	ug/kg	8.4	1	02/18/22 12:48	02/22/22 16:20	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1	02/18/22 12:48	02/22/22 16:20	2037-26-5	
4-Bromofluorobenzene (S)	97	%	69-134	1	02/18/22 12:48	02/22/22 16:20	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1	02/18/22 12:48	02/22/22 16:20	17060-07-0	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**27.0**	%	0.10	1		02/18/22 16:10		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-13 (22) **Lab ID: 92588952015** Collected: 02/15/22 14:20 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	193	1	02/18/22 12:48	02/22/22 16:37	67-64-1	
Benzene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	71-43-2	
Bromobenzene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	108-86-1	
Bromochloromethane	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	74-97-5	
Bromodichloromethane	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	75-27-4	
Bromoform	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	75-25-2	
Bromomethane	ND	ug/kg	19.3	1	02/18/22 12:48	02/22/22 16:37	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	193	1	02/18/22 12:48	02/22/22 16:37	78-93-3	
n-Butylbenzene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	104-51-8	
sec-Butylbenzene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	135-98-8	
tert-Butylbenzene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	98-06-6	
Carbon tetrachloride	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	56-23-5	
Chlorobenzene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	108-90-7	
Chloroethane	ND	ug/kg	19.3	1	02/18/22 12:48	02/22/22 16:37	75-00-3	
Chloroform	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	67-66-3	
Chloromethane	ND	ug/kg	19.3	1	02/18/22 12:48	02/22/22 16:37	74-87-3	
2-Chlorotoluene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	95-49-8	
4-Chlorotoluene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	96-12-8	
Dibromochloromethane	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	106-93-4	
Dibromomethane	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	19.3	1	02/18/22 12:48	02/22/22 16:37	75-71-8	
1,1-Dichloroethane	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	107-06-2	
1,1-Dichloroethene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	156-60-5	
1,2-Dichloropropane	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	78-87-5	
1,3-Dichloropropane	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	142-28-9	
2,2-Dichloropropane	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	594-20-7	
1,1-Dichloropropene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	10061-02-6	
Diisopropyl ether	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	108-20-3	
Ethylbenzene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	19.3	1	02/18/22 12:48	02/22/22 16:37	87-68-3	
2-Hexanone	ND	ug/kg	96.3	1	02/18/22 12:48	02/22/22 16:37	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	98-82-8	
p-Isopropyltoluene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	99-87-6	
Methylene Chloride	ND	ug/kg	38.5	1	02/18/22 12:48	02/22/22 16:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	96.3	1	02/18/22 12:48	02/22/22 16:37	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-13 (22) **Lab ID: 92588952015** Collected: 02/15/22 14:20 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	1634-04-4	
Naphthalene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	91-20-3	
n-Propylbenzene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	103-65-1	
Styrene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	79-34-5	
Tetrachloroethene	**463**	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	127-18-4	
Toluene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	120-82-1	
1,1,1-Trichloroethane	**58.1**	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	79-00-5	
Trichloroethene	**1640**	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	79-01-6	
Trichlorofluoromethane	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	108-67-8	
Vinyl acetate	ND	ug/kg	96.3	1	02/18/22 12:48	02/22/22 16:37	108-05-4	
Vinyl chloride	ND	ug/kg	19.3	1	02/18/22 12:48	02/22/22 16:37	75-01-4	
Xylene (Total)	ND	ug/kg	19.3	1	02/18/22 12:48	02/22/22 16:37	1330-20-7	
m&p-Xylene	ND	ug/kg	19.3	1	02/18/22 12:48	02/22/22 16:37	179601-23-1	
o-Xylene	ND	ug/kg	9.6	1	02/18/22 12:48	02/22/22 16:37	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1	02/18/22 12:48	02/22/22 16:37	2037-26-5	
4-Bromofluorobenzene (S)	100	%	69-134	1	02/18/22 12:48	02/22/22 16:37	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1	02/18/22 12:48	02/22/22 16:37	17060-07-0	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**35.7**	%	0.10	1		02/18/22 16:10		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-14 (14) **Lab ID: 92588952016** Collected: 02/15/22 15:20 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	150	1	02/18/22 12:48	02/22/22 16:55	67-64-1	
Benzene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	71-43-2	
Bromobenzene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	108-86-1	
Bromochloromethane	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	74-97-5	
Bromodichloromethane	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	75-27-4	
Bromoform	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	75-25-2	
Bromomethane	ND	ug/kg	15.0	1	02/18/22 12:48	02/22/22 16:55	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	150	1	02/18/22 12:48	02/22/22 16:55	78-93-3	
n-Butylbenzene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	104-51-8	
sec-Butylbenzene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	135-98-8	
tert-Butylbenzene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	98-06-6	
Carbon tetrachloride	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	56-23-5	
Chlorobenzene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	108-90-7	
Chloroethane	ND	ug/kg	15.0	1	02/18/22 12:48	02/22/22 16:55	75-00-3	
Chloroform	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	67-66-3	
Chloromethane	ND	ug/kg	15.0	1	02/18/22 12:48	02/22/22 16:55	74-87-3	
2-Chlorotoluene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	95-49-8	
4-Chlorotoluene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	96-12-8	
Dibromochloromethane	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	106-93-4	
Dibromomethane	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	15.0	1	02/18/22 12:48	02/22/22 16:55	75-71-8	
1,1-Dichloroethane	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	78-87-5	
1,3-Dichloropropane	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	142-28-9	
2,2-Dichloropropane	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	594-20-7	
1,1-Dichloropropene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	10061-02-6	
Diisopropyl ether	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	108-20-3	
Ethylbenzene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	15.0	1	02/18/22 12:48	02/22/22 16:55	87-68-3	
2-Hexanone	ND	ug/kg	75.1	1	02/18/22 12:48	02/22/22 16:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	98-82-8	
p-Isopropyltoluene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	99-87-6	
Methylene Chloride	ND	ug/kg	30.0	1	02/18/22 12:48	02/22/22 16:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	75.1	1	02/18/22 12:48	02/22/22 16:55	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-14 (14) **Lab ID: 92588952016** Collected: 02/15/22 15:20 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	1634-04-4	
Naphthalene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	91-20-3	
n-Propylbenzene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	103-65-1	
Styrene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	79-34-5	
Tetrachloroethene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	127-18-4	
Toluene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	79-00-5	
Trichloroethene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	79-01-6	
Trichlorofluoromethane	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	108-67-8	
Vinyl acetate	ND	ug/kg	75.1	1	02/18/22 12:48	02/22/22 16:55	108-05-4	
Vinyl chloride	ND	ug/kg	15.0	1	02/18/22 12:48	02/22/22 16:55	75-01-4	
Xylene (Total)	**15.8**	ug/kg	15.0	1	02/18/22 12:48	02/22/22 16:55	1330-20-7	
m&p-Xylene	**15.8**	ug/kg	15.0	1	02/18/22 12:48	02/22/22 16:55	179601-23-1	
o-Xylene	ND	ug/kg	7.5	1	02/18/22 12:48	02/22/22 16:55	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1	02/18/22 12:48	02/22/22 16:55	2037-26-5	
4-Bromofluorobenzene (S)	98	%	69-134	1	02/18/22 12:48	02/22/22 16:55	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1	02/18/22 12:48	02/22/22 16:55	17060-07-0	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**11.9**	%	0.10	1		02/18/22 16:10		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-14 (22) **Lab ID: 92588952017** Collected: 02/15/22 15:32 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	126	1	02/18/22 12:48	02/22/22 17:13	67-64-1	
Benzene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	71-43-2	
Bromobenzene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	108-86-1	
Bromochloromethane	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	74-97-5	
Bromodichloromethane	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	75-27-4	
Bromoform	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	75-25-2	
Bromomethane	ND	ug/kg	12.6	1	02/18/22 12:48	02/22/22 17:13	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	126	1	02/18/22 12:48	02/22/22 17:13	78-93-3	
n-Butylbenzene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	98-06-6	
Carbon tetrachloride	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	56-23-5	
Chlorobenzene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	108-90-7	
Chloroethane	ND	ug/kg	12.6	1	02/18/22 12:48	02/22/22 17:13	75-00-3	
Chloroform	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	67-66-3	
Chloromethane	ND	ug/kg	12.6	1	02/18/22 12:48	02/22/22 17:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	96-12-8	
Dibromochloromethane	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	106-93-4	
Dibromomethane	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	12.6	1	02/18/22 12:48	02/22/22 17:13	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	10061-02-6	
Diisopropyl ether	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	108-20-3	
Ethylbenzene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	12.6	1	02/18/22 12:48	02/22/22 17:13	87-68-3	
2-Hexanone	ND	ug/kg	63.2	1	02/18/22 12:48	02/22/22 17:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	99-87-6	
Methylene Chloride	ND	ug/kg	25.3	1	02/18/22 12:48	02/22/22 17:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	63.2	1	02/18/22 12:48	02/22/22 17:13	108-10-1	

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-14 (22) **Lab ID: 92588952017** Collected: 02/15/22 15:32 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	1634-04-4	
Naphthalene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	91-20-3	
n-Propylbenzene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	103-65-1	
Styrene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	79-34-5	
Tetrachloroethene	**8.4**	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	127-18-4	
Toluene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	79-00-5	
Trichloroethene	**81.3**	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	108-67-8	
Vinyl acetate	ND	ug/kg	63.2	1	02/18/22 12:48	02/22/22 17:13	108-05-4	
Vinyl chloride	ND	ug/kg	12.6	1	02/18/22 12:48	02/22/22 17:13	75-01-4	
Xylene (Total)	ND	ug/kg	12.6	1	02/18/22 12:48	02/22/22 17:13	1330-20-7	
m&p-Xylene	ND	ug/kg	12.6	1	02/18/22 12:48	02/22/22 17:13	179601-23-1	
o-Xylene	ND	ug/kg	6.3	1	02/18/22 12:48	02/22/22 17:13	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1	02/18/22 12:48	02/22/22 17:13	2037-26-5	
4-Bromofluorobenzene (S)	99	%	69-134	1	02/18/22 12:48	02/22/22 17:13	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1	02/18/22 12:48	02/22/22 17:13	17060-07-0	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**18.5**	%	0.10	1		02/18/22 16:10		N2

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-16 (14) **Lab ID: 92588952018** Collected: 02/16/22 09:47 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	210	1	02/18/22 12:48	02/22/22 17:31	67-64-1	
Benzene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	71-43-2	
Bromobenzene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	108-86-1	
Bromochloromethane	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	74-97-5	
Bromodichloromethane	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	75-27-4	
Bromoform	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	75-25-2	
Bromomethane	ND	ug/kg	21.0	1	02/18/22 12:48	02/22/22 17:31	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	210	1	02/18/22 12:48	02/22/22 17:31	78-93-3	
n-Butylbenzene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	104-51-8	
sec-Butylbenzene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	135-98-8	
tert-Butylbenzene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	98-06-6	
Carbon tetrachloride	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	56-23-5	
Chlorobenzene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	108-90-7	
Chloroethane	ND	ug/kg	21.0	1	02/18/22 12:48	02/22/22 17:31	75-00-3	
Chloroform	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	67-66-3	
Chloromethane	ND	ug/kg	21.0	1	02/18/22 12:48	02/22/22 17:31	74-87-3	
2-Chlorotoluene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	95-49-8	
4-Chlorotoluene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	96-12-8	
Dibromochloromethane	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	106-93-4	
Dibromomethane	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	21.0	1	02/18/22 12:48	02/22/22 17:31	75-71-8	
1,1-Dichloroethane	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	75-34-3	
1,2-Dichloroethane	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	107-06-2	
1,1-Dichloroethene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	156-60-5	
1,2-Dichloropropane	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	78-87-5	
1,3-Dichloropropane	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	142-28-9	
2,2-Dichloropropane	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	594-20-7	
1,1-Dichloropropene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	10061-02-6	
Diisopropyl ether	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	108-20-3	
Ethylbenzene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	21.0	1	02/18/22 12:48	02/22/22 17:31	87-68-3	
2-Hexanone	ND	ug/kg	105	1	02/18/22 12:48	02/22/22 17:31	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	98-82-8	
p-Isopropyltoluene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	99-87-6	
Methylene Chloride	ND	ug/kg	42.0	1	02/18/22 12:48	02/22/22 17:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	105	1	02/18/22 12:48	02/22/22 17:31	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-16 (14) **Lab ID: 92588952018** Collected: 02/16/22 09:47 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	1634-04-4	
Naphthalene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	91-20-3	
n-Propylbenzene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	103-65-1	
Styrene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	79-34-5	
Tetrachloroethene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	127-18-4	
Toluene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	79-00-5	
Trichloroethene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	79-01-6	
Trichlorofluoromethane	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	108-67-8	
Vinyl acetate	ND	ug/kg	105	1	02/18/22 12:48	02/22/22 17:31	108-05-4	
Vinyl chloride	ND	ug/kg	21.0	1	02/18/22 12:48	02/22/22 17:31	75-01-4	
Xylene (Total)	ND	ug/kg	21.0	1	02/18/22 12:48	02/22/22 17:31	1330-20-7	
m&p-Xylene	ND	ug/kg	21.0	1	02/18/22 12:48	02/22/22 17:31	179601-23-1	
o-Xylene	ND	ug/kg	10.5	1	02/18/22 12:48	02/22/22 17:31	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1	02/18/22 12:48	02/22/22 17:31	2037-26-5	
4-Bromofluorobenzene (S)	98	%	69-134	1	02/18/22 12:48	02/22/22 17:31	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1	02/18/22 12:48	02/22/22 17:31	17060-07-0	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**19.6**	%	0.10	1		02/18/22 16:10		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-17 (24) **Lab ID: 92588952019** Collected: 02/16/22 11:20 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	165	1	02/18/22 12:48	02/22/22 17:48	67-64-1	
Benzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	71-43-2	
Bromobenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	108-86-1	
Bromochloromethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	74-97-5	
Bromodichloromethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	75-27-4	
Bromoform	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	75-25-2	
Bromomethane	ND	ug/kg	16.5	1	02/18/22 12:48	02/22/22 17:48	74-83-9	IK,L1,v1
2-Butanone (MEK)	ND	ug/kg	165	1	02/18/22 12:48	02/22/22 17:48	78-93-3	
n-Butylbenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	104-51-8	
sec-Butylbenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	135-98-8	
tert-Butylbenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	98-06-6	
Carbon tetrachloride	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	56-23-5	
Chlorobenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	108-90-7	
Chloroethane	ND	ug/kg	16.5	1	02/18/22 12:48	02/22/22 17:48	75-00-3	
Chloroform	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	67-66-3	
Chloromethane	ND	ug/kg	16.5	1	02/18/22 12:48	02/22/22 17:48	74-87-3	
2-Chlorotoluene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	95-49-8	
4-Chlorotoluene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	96-12-8	
Dibromochloromethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	106-93-4	
Dibromomethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	16.5	1	02/18/22 12:48	02/22/22 17:48	75-71-8	
1,1-Dichloroethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	75-34-3	
1,2-Dichloroethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	107-06-2	
1,1-Dichloroethene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	156-60-5	
1,2-Dichloropropane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	78-87-5	
1,3-Dichloropropane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	142-28-9	
2,2-Dichloropropane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	594-20-7	
1,1-Dichloropropene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	10061-02-6	
Diisopropyl ether	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	108-20-3	
Ethylbenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	16.5	1	02/18/22 12:48	02/22/22 17:48	87-68-3	
2-Hexanone	ND	ug/kg	82.5	1	02/18/22 12:48	02/22/22 17:48	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	98-82-8	
p-Isopropyltoluene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	99-87-6	
Methylene Chloride	ND	ug/kg	33.0	1	02/18/22 12:48	02/22/22 17:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	82.5	1	02/18/22 12:48	02/22/22 17:48	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-17 (24) **Lab ID: 92588952019** Collected: 02/16/22 11:20 Received: 02/17/22 13:02 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B SC Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Methyl-tert-butyl ether	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	1634-04-4	
Naphthalene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	91-20-3	
n-Propylbenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	103-65-1	
Styrene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	79-34-5	
Tetrachloroethene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	127-18-4	
Toluene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	79-00-5	
Trichloroethene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	79-01-6	
Trichlorofluoromethane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	108-67-8	
Vinyl acetate	ND	ug/kg	82.5	1	02/18/22 12:48	02/22/22 17:48	108-05-4	
Vinyl chloride	ND	ug/kg	16.5	1	02/18/22 12:48	02/22/22 17:48	75-01-4	
Xylene (Total)	ND	ug/kg	16.5	1	02/18/22 12:48	02/22/22 17:48	1330-20-7	
m&p-Xylene	ND	ug/kg	16.5	1	02/18/22 12:48	02/22/22 17:48	179601-23-1	
o-Xylene	ND	ug/kg	8.3	1	02/18/22 12:48	02/22/22 17:48	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1	02/18/22 12:48	02/22/22 17:48	2037-26-5	
4-Bromofluorobenzene (S)	102	%	69-134	1	02/18/22 12:48	02/22/22 17:48	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1	02/18/22 12:48	02/22/22 17:48	17060-07-0	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**24.8**	%	0.10	1		02/18/22 16:10		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-2 **Lab ID: 92588952020** Collected: 02/15/22 11:03 Received: 02/17/22 13:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Iron, Dissolved	**1090**	ug/L	50.0	1	02/23/22 23:00	02/25/22 17:50	7439-89-6	
Manganese, Dissolved	**1110**	ug/L	5.0	1	02/23/22 23:00	02/25/22 17:50	7439-96-5	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		02/22/22 16:27	67-64-1	
Benzene	ND	ug/L	1.0	1		02/22/22 16:27	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/22/22 16:27	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/22/22 16:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/22/22 16:27	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/22/22 16:27	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/22/22 16:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/22/22 16:27	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/22/22 16:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/22/22 16:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/22/22 16:27	75-00-3	
Chloroform	**1.5**	ug/L	1.0	1		02/22/22 16:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/22/22 16:27	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/22/22 16:27	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/22/22 16:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/22/22 16:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/22/22 16:27	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/22/22 16:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/22/22 16:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/22/22 16:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/22/22 16:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/22/22 16:27	75-71-8	
1,1-Dichloroethane	**1.1**	ug/L	1.0	1		02/22/22 16:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/22/22 16:27	107-06-2	
1,1-Dichloroethene	**6.9**	ug/L	1.0	1		02/22/22 16:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/22 16:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/22 16:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/22/22 16:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/22/22 16:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/22/22 16:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/22/22 16:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/22 16:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/22 16:27	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/22/22 16:27	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		02/22/22 16:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		02/22/22 16:27	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/22/22 16:27	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/22/22 16:27	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		02/22/22 16:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/22/22 16:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/22/22 16:27	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-2 **Lab ID: 92588952020** Collected: 02/15/22 11:03 Received: 02/17/22 13:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Naphthalene	ND	ug/L	1.0	1		02/22/22 16:27	91-20-3	
Styrene	ND	ug/L	1.0	1		02/22/22 16:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/22 16:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/22 16:27	79-34-5	
Tetrachloroethene	**14.2**	ug/L	1.0	1		02/22/22 16:27	127-18-4	
Toluene	ND	ug/L	1.0	1		02/22/22 16:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/22/22 16:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/22/22 16:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/22/22 16:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/22/22 16:27	79-00-5	
Trichloroethene	**53.2**	ug/L	1.0	1		02/22/22 16:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/22/22 16:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/22/22 16:27	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/22/22 16:27	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/22/22 16:27	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/22/22 16:27	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/22/22 16:27	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/22/22 16:27	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		02/22/22 16:27	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		02/22/22 16:27	17060-07-0	
Toluene-d8 (S)	106	%	70-130	1		02/22/22 16:27	2037-26-5	
300.0 IC anions 48hr	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**16.1**	mg/L	1.0	1		02/18/22 19:11	16887-00-6	
Nitrate as N	**2.1**	mg/L	0.10	1		02/18/22 19:11	14797-55-8	H3
Sulfate	**14.4**	mg/L	1.0	1		02/18/22 19:11	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-3 **Lab ID: 92588952021** Collected: 02/15/22 13:24 Received: 02/17/22 13:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Iron, Dissolved	**1890**	ug/L	50.0	1	02/23/22 23:00	02/25/22 18:05	7439-89-6	
Manganese, Dissolved	**1960**	ug/L	5.0	1	02/23/22 23:00	02/25/22 18:05	7439-96-5	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	50.0	2		02/22/22 17:22	67-64-1	
Benzene	ND	ug/L	2.0	2		02/22/22 17:22	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		02/22/22 17:22	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		02/22/22 17:22	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		02/22/22 17:22	75-27-4	
Bromoform	ND	ug/L	2.0	2		02/22/22 17:22	75-25-2	
Bromomethane	ND	ug/L	4.0	2		02/22/22 17:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	2		02/22/22 17:22	78-93-3	
Carbon tetrachloride	ND	ug/L	2.0	2		02/22/22 17:22	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		02/22/22 17:22	108-90-7	
Chloroethane	ND	ug/L	2.0	2		02/22/22 17:22	75-00-3	
Chloroform	**2.2**	ug/L	2.0	2		02/22/22 17:22	67-66-3	
Chloromethane	ND	ug/L	2.0	2		02/22/22 17:22	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		02/22/22 17:22	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		02/22/22 17:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2		02/22/22 17:22	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		02/22/22 17:22	124-48-1	
Dibromomethane	ND	ug/L	2.0	2		02/22/22 17:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		02/22/22 17:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		02/22/22 17:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		02/22/22 17:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		02/22/22 17:22	75-71-8	
1,1-Dichloroethane	**4.3**	ug/L	2.0	2		02/22/22 17:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	2		02/22/22 17:22	107-06-2	
1,1-Dichloroethene	**18.5**	ug/L	2.0	2		02/22/22 17:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		02/22/22 17:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		02/22/22 17:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	2		02/22/22 17:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		02/22/22 17:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		02/22/22 17:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		02/22/22 17:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		02/22/22 17:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		02/22/22 17:22	10061-02-6	
Diisopropyl ether	ND	ug/L	2.0	2		02/22/22 17:22	108-20-3	
Ethylbenzene	ND	ug/L	2.0	2		02/22/22 17:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	2		02/22/22 17:22	87-68-3	
2-Hexanone	ND	ug/L	10.0	2		02/22/22 17:22	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.0	2		02/22/22 17:22	99-87-6	
Methylene Chloride	ND	ug/L	10.0	2		02/22/22 17:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		02/22/22 17:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		02/22/22 17:22	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-3 **Lab ID: 92588952021** Collected: 02/15/22 13:24 Received: 02/17/22 13:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Naphthalene	ND	ug/L	2.0	2		02/22/22 17:22	91-20-3	
Styrene	ND	ug/L	2.0	2		02/22/22 17:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		02/22/22 17:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		02/22/22 17:22	79-34-5	
Tetrachloroethene	**27.5**	ug/L	2.0	2		02/22/22 17:22	127-18-4	
Toluene	ND	ug/L	2.0	2		02/22/22 17:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		02/22/22 17:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		02/22/22 17:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		02/22/22 17:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		02/22/22 17:22	79-00-5	
Trichloroethene	**228**	ug/L	2.0	2		02/22/22 17:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		02/22/22 17:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		02/22/22 17:22	96-18-4	
Vinyl acetate	ND	ug/L	4.0	2		02/22/22 17:22	108-05-4	
Vinyl chloride	ND	ug/L	2.0	2		02/22/22 17:22	75-01-4	
Xylene (Total)	ND	ug/L	2.0	2		02/22/22 17:22	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		02/22/22 17:22	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		02/22/22 17:22	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	2		02/22/22 17:22	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	2		02/22/22 17:22	17060-07-0	
Toluene-d8 (S)	106	%	70-130	2		02/22/22 17:22	2037-26-5	
300.0 IC anions 48hr	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**27.7**	mg/L	1.0	1		02/18/22 19:26	16887-00-6	
Nitrate as N	**3.2**	mg/L	0.10	1		02/18/22 19:26	14797-55-8	H1
Sulfate	**1.8**	mg/L	1.0	1		02/18/22 19:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-12 **Lab ID: 92588952022** Collected: 02/15/22 15:56 Received: 02/17/22 13:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Iron, Dissolved	**621**	ug/L	50.0	1	02/23/22 23:00	02/25/22 18:08	7439-89-6	
Manganese, Dissolved	**483**	ug/L	5.0	1	02/23/22 23:00	02/25/22 18:08	7439-96-5	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	2500	100		02/22/22 21:18	67-64-1	
Benzene	ND	ug/L	100	100		02/22/22 21:18	71-43-2	
Bromobenzene	ND	ug/L	100	100		02/22/22 21:18	108-86-1	
Bromochloromethane	ND	ug/L	100	100		02/22/22 21:18	74-97-5	
Bromodichloromethane	ND	ug/L	100	100		02/22/22 21:18	75-27-4	
Bromoform	ND	ug/L	100	100		02/22/22 21:18	75-25-2	
Bromomethane	ND	ug/L	200	100		02/22/22 21:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	500	100		02/22/22 21:18	78-93-3	
Carbon tetrachloride	ND	ug/L	100	100		02/22/22 21:18	56-23-5	
Chlorobenzene	ND	ug/L	100	100		02/22/22 21:18	108-90-7	
Chloroethane	ND	ug/L	100	100		02/22/22 21:18	75-00-3	
Chloroform	ND	ug/L	100	100		02/22/22 21:18	67-66-3	
Chloromethane	ND	ug/L	100	100		02/22/22 21:18	74-87-3	M1
2-Chlorotoluene	ND	ug/L	100	100		02/22/22 21:18	95-49-8	
4-Chlorotoluene	ND	ug/L	100	100		02/22/22 21:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	200	100		02/22/22 21:18	96-12-8	
Dibromochloromethane	ND	ug/L	100	100		02/22/22 21:18	124-48-1	
Dibromomethane	ND	ug/L	100	100		02/22/22 21:18	74-95-3	
1,2-Dichlorobenzene	**148**	ug/L	100	100		02/22/22 21:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	100	100		02/22/22 21:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	100	100		02/22/22 21:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	100	100		02/22/22 21:18	75-71-8	M1
1,1-Dichloroethane	ND	ug/L	100	100		02/22/22 21:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	100	100		02/22/22 21:18	107-06-2	
1,1-Dichloroethene	**161**	ug/L	100	100		02/22/22 21:18	75-35-4	M1
cis-1,2-Dichloroethene	ND	ug/L	100	100		02/22/22 21:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	100	100		02/22/22 21:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	100	100		02/22/22 21:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	100	100		02/22/22 21:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	100	100		02/22/22 21:18	594-20-7	M1
1,1-Dichloropropene	ND	ug/L	100	100		02/22/22 21:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	100	100		02/22/22 21:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	100	100		02/22/22 21:18	10061-02-6	
Diisopropyl ether	ND	ug/L	100	100		02/22/22 21:18	108-20-3	
Ethylbenzene	ND	ug/L	100	100		02/22/22 21:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	100		02/22/22 21:18	87-68-3	
2-Hexanone	ND	ug/L	500	100		02/22/22 21:18	591-78-6	
p-Isopropyltoluene	ND	ug/L	100	100		02/22/22 21:18	99-87-6	
Methylene Chloride	ND	ug/L	500	100		02/22/22 21:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	500	100		02/22/22 21:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	100	100		02/22/22 21:18	1634-04-4	

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9800 Kincey Ave. Suite 100
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(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-12 **Lab ID: 92588952022** Collected: 02/15/22 15:56 Received: 02/17/22 13:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Naphthalene	ND	ug/L	100	100		02/22/22 21:18	91-20-3	
Styrene	ND	ug/L	100	100		02/22/22 21:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	100	100		02/22/22 21:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	100		02/22/22 21:18	79-34-5	
Tetrachloroethene	**1930**	ug/L	100	100		02/22/22 21:18	127-18-4	
Toluene	ND	ug/L	100	100		02/22/22 21:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	100	100		02/22/22 21:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	100	100		02/22/22 21:18	120-82-1	
1,1,1-Trichloroethane	**744**	ug/L	100	100		02/22/22 21:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	100	100		02/22/22 21:18	79-00-5	
Trichloroethene	**9920**	ug/L	100	100		02/22/22 21:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	100	100		02/22/22 21:18	75-69-4	M1
1,2,3-Trichloropropane	ND	ug/L	100	100		02/22/22 21:18	96-18-4	
Vinyl acetate	ND	ug/L	200	100		02/22/22 21:18	108-05-4	
Vinyl chloride	ND	ug/L	100	100		02/22/22 21:18	75-01-4	M1
Xylene (Total)	ND	ug/L	100	100		02/22/22 21:18	1330-20-7	
m&p-Xylene	ND	ug/L	200	100		02/22/22 21:18	179601-23-1	
o-Xylene	ND	ug/L	100	100		02/22/22 21:18	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	100		02/22/22 21:18	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	100		02/22/22 21:18	17060-07-0	
Toluene-d8 (S)	104	%	70-130	100		02/22/22 21:18	2037-26-5	
300.0 IC anions 48hr	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**5.5**	mg/L	1.0	1		02/18/22 19:41	16887-00-6	
Nitrate as N	**2.3**	mg/L	0.10	1		02/18/22 19:41	14797-55-8	H1
Sulfate	ND	mg/L	1.0	1		02/18/22 19:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-13 **Lab ID: 92588952023** Collected: 02/15/22 17:35 Received: 02/17/22 13:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Iron, Dissolved	**272**	ug/L	50.0	1	02/23/22 23:00	02/25/22 18:12	7439-89-6	
Manganese, Dissolved	**208**	ug/L	5.0	1	02/23/22 23:00	02/25/22 18:12	7439-96-5	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	500	20		02/22/22 20:42	67-64-1	
Benzene	ND	ug/L	20.0	20		02/22/22 20:42	71-43-2	
Bromobenzene	ND	ug/L	20.0	20		02/22/22 20:42	108-86-1	
Bromochloromethane	ND	ug/L	20.0	20		02/22/22 20:42	74-97-5	
Bromodichloromethane	ND	ug/L	20.0	20		02/22/22 20:42	75-27-4	
Bromoform	ND	ug/L	20.0	20		02/22/22 20:42	75-25-2	
Bromomethane	ND	ug/L	40.0	20		02/22/22 20:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	20		02/22/22 20:42	78-93-3	
Carbon tetrachloride	ND	ug/L	20.0	20		02/22/22 20:42	56-23-5	
Chlorobenzene	ND	ug/L	20.0	20		02/22/22 20:42	108-90-7	
Chloroethane	ND	ug/L	20.0	20		02/22/22 20:42	75-00-3	
Chloroform	ND	ug/L	20.0	20		02/22/22 20:42	67-66-3	
Chloromethane	ND	ug/L	20.0	20		02/22/22 20:42	74-87-3	
2-Chlorotoluene	ND	ug/L	20.0	20		02/22/22 20:42	95-49-8	
4-Chlorotoluene	ND	ug/L	20.0	20		02/22/22 20:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	40.0	20		02/22/22 20:42	96-12-8	
Dibromochloromethane	ND	ug/L	20.0	20		02/22/22 20:42	124-48-1	
Dibromomethane	ND	ug/L	20.0	20		02/22/22 20:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	20.0	20		02/22/22 20:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	20.0	20		02/22/22 20:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	20.0	20		02/22/22 20:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	20.0	20		02/22/22 20:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	20.0	20		02/22/22 20:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	20.0	20		02/22/22 20:42	107-06-2	
1,1-Dichloroethene	**86.7**	ug/L	20.0	20		02/22/22 20:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	20.0	20		02/22/22 20:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	20.0	20		02/22/22 20:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	20.0	20		02/22/22 20:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	20.0	20		02/22/22 20:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	20.0	20		02/22/22 20:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	20.0	20		02/22/22 20:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	20.0	20		02/22/22 20:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	20		02/22/22 20:42	10061-02-6	
Diisopropyl ether	ND	ug/L	20.0	20		02/22/22 20:42	108-20-3	
Ethylbenzene	ND	ug/L	20.0	20		02/22/22 20:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	40.0	20		02/22/22 20:42	87-68-3	
2-Hexanone	ND	ug/L	100	20		02/22/22 20:42	591-78-6	
p-Isopropyltoluene	ND	ug/L	20.0	20		02/22/22 20:42	99-87-6	
Methylene Chloride	ND	ug/L	100	20		02/22/22 20:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	20		02/22/22 20:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	20		02/22/22 20:42	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-13 **Lab ID: 92588952023** Collected: 02/15/22 17:35 Received: 02/17/22 13:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Naphthalene	ND	ug/L	20.0	20		02/22/22 20:42	91-20-3	
Styrene	ND	ug/L	20.0	20		02/22/22 20:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	20.0	20		02/22/22 20:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	20.0	20		02/22/22 20:42	79-34-5	
Tetrachloroethene	**345**	ug/L	20.0	20		02/22/22 20:42	127-18-4	
Toluene	ND	ug/L	20.0	20		02/22/22 20:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	20.0	20		02/22/22 20:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	20.0	20		02/22/22 20:42	120-82-1	
1,1,1-Trichloroethane	**43.0**	ug/L	20.0	20		02/22/22 20:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	20.0	20		02/22/22 20:42	79-00-5	
Trichloroethene	**1800**	ug/L	20.0	20		02/22/22 20:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	20.0	20		02/22/22 20:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	20.0	20		02/22/22 20:42	96-18-4	
Vinyl acetate	ND	ug/L	40.0	20		02/22/22 20:42	108-05-4	
Vinyl chloride	ND	ug/L	20.0	20		02/22/22 20:42	75-01-4	
Xylene (Total)	ND	ug/L	20.0	20		02/22/22 20:42	1330-20-7	
m&p-Xylene	ND	ug/L	40.0	20		02/22/22 20:42	179601-23-1	
o-Xylene	ND	ug/L	20.0	20		02/22/22 20:42	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	20		02/22/22 20:42	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	20		02/22/22 20:42	17060-07-0	
Toluene-d8 (S)	104	%	70-130	20		02/22/22 20:42	2037-26-5	
300.0 IC anions 48hr	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**12.1**	mg/L	1.0	1		02/18/22 19:56	16887-00-6	
Nitrate as N	**1.6**	mg/L	0.10	1		02/18/22 19:56	14797-55-8	H1
Sulfate	**12.3**	mg/L	1.0	1		02/18/22 19:56	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-14 **Lab ID: 92588952024** Collected: 02/16/22 10:22 Received: 02/17/22 13:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Iron, Dissolved	**974**	ug/L	50.0	1	02/23/22 23:00	02/25/22 18:15	7439-89-6	
Manganese, Dissolved	**863**	ug/L	5.0	1	02/23/22 23:00	02/25/22 18:15	7439-96-5	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	62.5	2.5		02/22/22 18:35	67-64-1	
Benzene	ND	ug/L	2.5	2.5		02/22/22 18:35	71-43-2	
Bromobenzene	ND	ug/L	2.5	2.5		02/22/22 18:35	108-86-1	
Bromochloromethane	ND	ug/L	2.5	2.5		02/22/22 18:35	74-97-5	
Bromodichloromethane	ND	ug/L	2.5	2.5		02/22/22 18:35	75-27-4	
Bromoform	ND	ug/L	2.5	2.5		02/22/22 18:35	75-25-2	
Bromomethane	ND	ug/L	5.0	2.5		02/22/22 18:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	12.5	2.5		02/22/22 18:35	78-93-3	
Carbon tetrachloride	ND	ug/L	2.5	2.5		02/22/22 18:35	56-23-5	
Chlorobenzene	ND	ug/L	2.5	2.5		02/22/22 18:35	108-90-7	
Chloroethane	ND	ug/L	2.5	2.5		02/22/22 18:35	75-00-3	
Chloroform	**3.5**	ug/L	2.5	2.5		02/22/22 18:35	67-66-3	
Chloromethane	ND	ug/L	2.5	2.5		02/22/22 18:35	74-87-3	
2-Chlorotoluene	ND	ug/L	2.5	2.5		02/22/22 18:35	95-49-8	
4-Chlorotoluene	ND	ug/L	2.5	2.5		02/22/22 18:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5		02/22/22 18:35	96-12-8	
Dibromochloromethane	ND	ug/L	2.5	2.5		02/22/22 18:35	124-48-1	
Dibromomethane	ND	ug/L	2.5	2.5		02/22/22 18:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.5	2.5		02/22/22 18:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.5	2.5		02/22/22 18:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.5	2.5		02/22/22 18:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.5	2.5		02/22/22 18:35	75-71-8	
1,1-Dichloroethane	**4.5**	ug/L	2.5	2.5		02/22/22 18:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.5	2.5		02/22/22 18:35	107-06-2	
1,1-Dichloroethene	**26.5**	ug/L	2.5	2.5		02/22/22 18:35	75-35-4	
cis-1,2-Dichloroethene	**3.9**	ug/L	2.5	2.5		02/22/22 18:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.5	2.5		02/22/22 18:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.5	2.5		02/22/22 18:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.5	2.5		02/22/22 18:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.5	2.5		02/22/22 18:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.5	2.5		02/22/22 18:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.5	2.5		02/22/22 18:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.5	2.5		02/22/22 18:35	10061-02-6	
Diisopropyl ether	ND	ug/L	2.5	2.5		02/22/22 18:35	108-20-3	
Ethylbenzene	ND	ug/L	2.5	2.5		02/22/22 18:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	2.5		02/22/22 18:35	87-68-3	
2-Hexanone	ND	ug/L	12.5	2.5		02/22/22 18:35	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.5	2.5		02/22/22 18:35	99-87-6	
Methylene Chloride	ND	ug/L	12.5	2.5		02/22/22 18:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	12.5	2.5		02/22/22 18:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.5	2.5		02/22/22 18:35	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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(704)875-9092

ANALYTICAL RESULTS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Sample: SB-14 **Lab ID: 92588952024** Collected: 02/16/22 10:22 Received: 02/17/22 13:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Naphthalene	ND	ug/L	2.5	2.5		02/22/22 18:35	91-20-3	
Styrene	ND	ug/L	2.5	2.5		02/22/22 18:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.5	2.5		02/22/22 18:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.5	2.5		02/22/22 18:35	79-34-5	
Tetrachloroethene	**38.1**	ug/L	2.5	2.5		02/22/22 18:35	127-18-4	
Toluene	ND	ug/L	2.5	2.5		02/22/22 18:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.5	2.5		02/22/22 18:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.5	2.5		02/22/22 18:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.5	2.5		02/22/22 18:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.5	2.5		02/22/22 18:35	79-00-5	
Trichloroethene	**405**	ug/L	2.5	2.5		02/22/22 18:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.5	2.5		02/22/22 18:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	2.5		02/22/22 18:35	96-18-4	
Vinyl acetate	ND	ug/L	5.0	2.5		02/22/22 18:35	108-05-4	
Vinyl chloride	ND	ug/L	2.5	2.5		02/22/22 18:35	75-01-4	
Xylene (Total)	ND	ug/L	2.5	2.5		02/22/22 18:35	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	2.5		02/22/22 18:35	179601-23-1	
o-Xylene	ND	ug/L	2.5	2.5		02/22/22 18:35	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	2.5		02/22/22 18:35	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	2.5		02/22/22 18:35	17060-07-0	
Toluene-d8 (S)	105	%	70-130	2.5		02/22/22 18:35	2037-26-5	
300.0 IC anions 48hr	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**14.8**	mg/L	1.0	1		02/18/22 20:41	16887-00-6	
Nitrate as N	**1.8**	mg/L	0.10	1		02/18/22 20:41	14797-55-8	H1
Sulfate	**1.2**	mg/L	1.0	1		02/18/22 20:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

QC Batch: 680325 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET Filtered Diss.
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92588952020, 92588952021, 92588952022, 92588952023, 92588952024

METHOD BLANK: 3559273 Matrix: Water
Associated Lab Samples: 92588952020, 92588952021, 92588952022, 92588952023, 92588952024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	ND	50.0	02/25/22 17:36	
Manganese, Dissolved	ug/L	ND	5.0	02/25/22 17:36	

LABORATORY CONTROL SAMPLE: 3559274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	4460	89	80-120	
Manganese, Dissolved	ug/L	500	437	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3559275 3559276

Parameter	Units	92588952020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Iron, Dissolved	ug/L	1090	5000	5000	5480	5600	88	90	75-125	2	
Manganese, Dissolved	ug/L	1110	500	500	1520	1530	82	85	75-125	1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

QC Batch: 679412 | Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D | Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92588952020, 92588952021, 92588952022, 92588952023, 92588952024

METHOD BLANK: 3555143 Matrix: Water
Associated Lab Samples: 92588952020, 92588952021, 92588952022, 92588952023, 92588952024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/22/22 15:14	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/22/22 15:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/22/22 15:14	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/22/22 15:14	
1,1-Dichloroethane	ug/L	ND	1.0	02/22/22 15:14	
1,1-Dichloroethene	ug/L	ND	1.0	02/22/22 15:14	
1,1-Dichloropropene	ug/L	ND	1.0	02/22/22 15:14	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/22/22 15:14	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/22/22 15:14	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/22/22 15:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	02/22/22 15:14	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/22/22 15:14	
1,2-Dichloroethane	ug/L	ND	1.0	02/22/22 15:14	
1,2-Dichloropropane	ug/L	ND	1.0	02/22/22 15:14	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/22/22 15:14	
1,3-Dichloropropane	ug/L	ND	1.0	02/22/22 15:14	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/22/22 15:14	
2,2-Dichloropropane	ug/L	ND	1.0	02/22/22 15:14	
2-Butanone (MEK)	ug/L	ND	5.0	02/22/22 15:14	
2-Chlorotoluene	ug/L	ND	1.0	02/22/22 15:14	
2-Hexanone	ug/L	ND	5.0	02/22/22 15:14	
4-Chlorotoluene	ug/L	ND	1.0	02/22/22 15:14	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	02/22/22 15:14	
Acetone	ug/L	ND	25.0	02/22/22 15:14	
Benzene	ug/L	ND	1.0	02/22/22 15:14	
Bromobenzene	ug/L	ND	1.0	02/22/22 15:14	
Bromochloromethane	ug/L	ND	1.0	02/22/22 15:14	
Bromodichloromethane	ug/L	ND	1.0	02/22/22 15:14	
Bromoform	ug/L	ND	1.0	02/22/22 15:14	
Bromomethane	ug/L	ND	2.0	02/22/22 15:14	
Carbon tetrachloride	ug/L	ND	1.0	02/22/22 15:14	
Chlorobenzene	ug/L	ND	1.0	02/22/22 15:14	
Chloroethane	ug/L	ND	1.0	02/22/22 15:14	
Chloroform	ug/L	ND	1.0	02/22/22 15:14	
Chloromethane	ug/L	ND	1.0	02/22/22 15:14	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/22/22 15:14	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/22/22 15:14	
Dibromochloromethane	ug/L	ND	1.0	02/22/22 15:14	
Dibromomethane	ug/L	ND	1.0	02/22/22 15:14	
Dichlorodifluoromethane	ug/L	ND	1.0	02/22/22 15:14	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

METHOD BLANK: 3555143 Matrix: Water
Associated Lab Samples: 92588952020, 92588952021, 92588952022, 92588952023, 92588952024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	02/22/22 15:14	
Ethylbenzene	ug/L	ND	1.0	02/22/22 15:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/22/22 15:14	
m&p-Xylene	ug/L	ND	2.0	02/22/22 15:14	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/22/22 15:14	
Methylene Chloride	ug/L	ND	5.0	02/22/22 15:14	
Naphthalene	ug/L	ND	1.0	02/22/22 15:14	
o-Xylene	ug/L	ND	1.0	02/22/22 15:14	
p-Isopropyltoluene	ug/L	ND	1.0	02/22/22 15:14	
Styrene	ug/L	ND	1.0	02/22/22 15:14	
Tetrachloroethene	ug/L	ND	1.0	02/22/22 15:14	
Toluene	ug/L	ND	1.0	02/22/22 15:14	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/22/22 15:14	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/22/22 15:14	
Trichloroethene	ug/L	ND	1.0	02/22/22 15:14	
Trichlorofluoromethane	ug/L	ND	1.0	02/22/22 15:14	
Vinyl acetate	ug/L	ND	2.0	02/22/22 15:14	
Vinyl chloride	ug/L	ND	1.0	02/22/22 15:14	
Xylene (Total)	ug/L	ND	1.0	02/22/22 15:14	
1,2-Dichloroethane-d4 (S)	%	92	70-130	02/22/22 15:14	
4-Bromofluorobenzene (S)	%	99	70-130	02/22/22 15:14	
Toluene-d8 (S)	%	105	70-130	02/22/22 15:14	

LABORATORY CONTROL SAMPLE: 3555144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.9	104	70-130	
1,1,1-Trichloroethane	ug/L	50	49.7	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.4	105	70-130	
1,1,2-Trichloroethane	ug/L	50	52.9	106	70-130	
1,1-Dichloroethane	ug/L	50	49.5	99	70-130	
1,1-Dichloroethene	ug/L	50	49.0	98	70-130	
1,1-Dichloropropene	ug/L	50	55.6	111	70-130	
1,2,3-Trichlorobenzene	ug/L	50	53.4	107	70-130	
1,2,3-Trichloropropane	ug/L	50	51.3	103	70-130	
1,2,4-Trichlorobenzene	ug/L	50	52.6	105	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	57.3	115	70-130	
1,2-Dichlorobenzene	ug/L	50	48.6	97	70-130	
1,2-Dichloroethane	ug/L	50	53.2	106	70-130	
1,2-Dichloropropane	ug/L	50	51.6	103	70-130	
1,3-Dichlorobenzene	ug/L	50	48.2	96	70-130	
1,3-Dichloropropane	ug/L	50	53.0	106	70-130	
1,4-Dichlorobenzene	ug/L	50	48.1	96	70-130	
2,2-Dichloropropane	ug/L	50	49.3	99	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

LABORATORY CONTROL SAMPLE: 3555144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	107	107	70-130	
2-Chlorotoluene	ug/L	50	49.3	99	70-130	
2-Hexanone	ug/L	100	107	107	70-130	
4-Chlorotoluene	ug/L	50	48.1	96	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	70-130	
Acetone	ug/L	100	106	106	70-130	
Benzene	ug/L	50	47.8	96	70-130	
Bromobenzene	ug/L	50	50.2	100	70-130	
Bromochloromethane	ug/L	50	49.9	100	70-130	
Bromodichloromethane	ug/L	50	50.7	101	70-130	
Bromoform	ug/L	50	55.3	111	70-130	
Bromomethane	ug/L	50	48.2	96	70-130	
Carbon tetrachloride	ug/L	50	47.5	95	70-130	
Chlorobenzene	ug/L	50	47.2	94	70-130	
Chloroethane	ug/L	50	51.1	102	70-130	
Chloroform	ug/L	50	52.2	104	70-130	
Chloromethane	ug/L	50	46.4	93	70-130	
cis-1,2-Dichloroethene	ug/L	50	51.4	103	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.5	103	70-130	
Dibromochloromethane	ug/L	50	51.5	103	70-130	
Dibromomethane	ug/L	50	48.8	98	70-130	
Dichlorodifluoromethane	ug/L	50	42.9	86	70-130	
Diisopropyl ether	ug/L	50	53.3	107	70-130	
Ethylbenzene	ug/L	50	48.0	96	70-130	
Hexachloro-1,3-butadiene	ug/L	50	56.2	112	70-130	
m&p-Xylene	ug/L	100	93.5	93	70-130	
Methyl-tert-butyl ether	ug/L	50	57.9	116	70-130	
Methylene Chloride	ug/L	50	49.2	98	70-130	
Naphthalene	ug/L	50	53.0	106	70-130	
o-Xylene	ug/L	50	47.0	94	70-130	
p-Isopropyltoluene	ug/L	50	50.5	101	70-130	
Styrene	ug/L	50	48.5	97	70-130	
Tetrachloroethene	ug/L	50	48.1	96	70-130	
Toluene	ug/L	50	46.0	92	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.9	102	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.8	108	70-130	
Trichloroethene	ug/L	50	50.0	100	70-130	
Trichlorofluoromethane	ug/L	50	45.0	90	70-130	
Vinyl acetate	ug/L	100	112	112	70-130	
Vinyl chloride	ug/L	50	47.6	95	70-130	
Xylene (Total)	ug/L	150	140	94	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3555145 3555146

Parameter	Units	92588952022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	2000	2000	1960	2000	98	100	73-134	2	
1,1,1-Trichloroethane	ug/L	744	2000	2000	2560	2440	91	85	82-143	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	2000	2000	1980	2090	99	104	70-136	6	
1,1,2-Trichloroethane	ug/L	ND	2000	2000	2010	1990	100	99	70-135	1	
1,1-Dichloroethane	ug/L	ND	2000	2000	1640	1660	82	83	70-139	1	
1,1-Dichloroethene	ug/L	161	2000	2000	1520	1470	68	66	70-154	3	M1
1,1-Dichloropropene	ug/L	ND	2000	2000	1740	1690	87	84	70-149	3	
1,2,3-Trichlorobenzene	ug/L	ND	2000	2000	2060	2070	103	104	70-135	1	
1,2,3-Trichloropropane	ug/L	ND	2000	2000	1950	2110	97	105	71-137	8	
1,2,4-Trichlorobenzene	ug/L	ND	2000	2000	1940	2060	97	103	73-140	6	
1,2-Dibromo-3-chloropropane	ug/L	ND	2000	2000	2030	2090	102	105	65-134	3	
1,2-Dichlorobenzene	ug/L	148	2000	2000	2160	2210	101	103	70-133	2	
1,2-Dichloroethane	ug/L	ND	2000	2000	1710	1780	85	89	70-137	4	
1,2-Dichloropropane	ug/L	ND	2000	2000	1990	2070	100	103	70-140	4	
1,3-Dichlorobenzene	ug/L	ND	2000	2000	1960	2030	98	101	70-135	3	
1,3-Dichloropropane	ug/L	ND	2000	2000	1940	1970	97	98	70-143	2	
1,4-Dichlorobenzene	ug/L	ND	2000	2000	1990	2140	100	107	70-133	7	
2,2-Dichloropropane	ug/L	ND	2000	2000	1190	1250	60	62	61-148	5	M1
2-Butanone (MEK)	ug/L	ND	4000	4000	2820	2850	71	71	60-139	1	
2-Chlorotoluene	ug/L	ND	2000	2000	2000	2050	100	103	70-144	3	
2-Hexanone	ug/L	ND	4000	4000	3880	3980	97	100	65-138	3	
4-Chlorotoluene	ug/L	ND	2000	2000	1900	1950	95	98	70-137	3	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4000	4000	3740	3760	94	94	65-135	0	
Acetone	ug/L	ND	4000	4000	3350	3590	84	90	60-148	7	
Benzene	ug/L	ND	2000	2000	1800	1850	90	92	70-151	2	
Bromobenzene	ug/L	ND	2000	2000	2060	2140	103	107	70-136	4	
Bromochloromethane	ug/L	ND	2000	2000	1740	1770	87	89	70-141	2	
Bromodichloromethane	ug/L	ND	2000	2000	1980	1940	99	97	70-138	2	
Bromoform	ug/L	ND	2000	2000	2000	2100	100	105	63-130	5	
Bromomethane	ug/L	ND	2000	2000	1080	1100	54	55	15-152	2	
Carbon tetrachloride	ug/L	ND	2000	2000	1770	1830	88	91	70-143	3	
Chlorobenzene	ug/L	ND	2000	2000	1920	1990	96	99	70-138	4	
Chloroethane	ug/L	ND	2000	2000	1190	1290	60	65	52-163	8	
Chloroform	ug/L	ND	2000	2000	1860	1660	92	82	70-139	11	
Chloromethane	ug/L	ND	2000	2000	479	439	24	22	41-139	9	M1
cis-1,2-Dichloroethene	ug/L	ND	2000	2000	1750	1760	87	88	70-141	1	
cis-1,3-Dichloropropene	ug/L	ND	2000	2000	1810	1830	90	91	70-137	1	
Dibromochloromethane	ug/L	ND	2000	2000	1870	1910	94	96	70-134	2	
Dibromomethane	ug/L	ND	2000	2000	1950	1910	98	96	70-138	2	
Dichlorodifluoromethane	ug/L	ND	2000	2000	64.6J	61J	3	3	47-155		M1
Diisopropyl ether	ug/L	ND	2000	2000	1610	1590	80	79	63-144	1	
Ethylbenzene	ug/L	ND	2000	2000	1930	2040	97	102	66-153	5	
Hexachloro-1,3-butadiene	ug/L	ND	2000	2000	1990	2140	100	107	65-149	7	
m&p-Xylene	ug/L	ND	4000	4000	3840	4030	96	101	69-152	5	
Methyl-tert-butyl ether	ug/L	ND	2000	2000	1620	1610	81	80	54-156	1	
Methylene Chloride	ug/L	ND	2000	2000	1740	1680	78	74	42-159	4	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3555145 3555146

Parameter	Units	92588952022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Naphthalene	ug/L	ND	2000	2000	2020	2110	101	105	61-148	4	
o-Xylene	ug/L	ND	2000	2000	1950	2060	97	103	70-148	6	
p-Isopropyltoluene	ug/L	ND	2000	2000	2040	2030	102	102	70-146	0	
Styrene	ug/L	ND	2000	2000	2010	2080	100	104	70-135	3	
Tetrachloroethene	ug/L	1930	2000	2000	3710	3920	89	100	59-143	6	
Toluene	ug/L	ND	2000	2000	1910	1920	96	96	59-148	1	
trans-1,2-Dichloroethene	ug/L	ND	2000	2000	1520	1490	76	75	70-146	2	
trans-1,3-Dichloropropene	ug/L	ND	2000	2000	1800	1920	90	96	70-135	6	
Trichloroethene	ug/L	9920	2000	2000	12500	12400	127	123	70-147	1	
Trichlorofluoromethane	ug/L	ND	2000	2000	1130	1080	56	54	70-148	5	M1
Vinyl acetate	ug/L	ND	4000	4000	3000	3030	75	76	49-151	1	
Vinyl chloride	ug/L	ND	2000	2000	614	628	31	31	70-156	2	M1
Xylene (Total)	ug/L	ND	6000	6000	5790	6090	97	102	63-158	5	
1,2-Dichloroethane-d4 (S)	%						89	89	70-130		
4-Bromofluorobenzene (S)	%						96	100	70-130		
Toluene-d8 (S)	%						99	100	70-130		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

QC Batch: 679375
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8260D
Analysis Description: 8260D 5035A 5030B SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92588952001, 92588952002, 92588952003, 92588952004, 92588952005, 92588952006, 92588952007, 92588952008, 92588952009, 92588952010, 92588952011, 92588952012, 92588952013, 92588952014, 92588952015, 92588952016, 92588952017, 92588952018, 92588952019

METHOD BLANK: 3554846
Matrix: Solid
Associated Lab Samples: 92588952001, 92588952002, 92588952003, 92588952004, 92588952005, 92588952006, 92588952007, 92588952008, 92588952009, 92588952010, 92588952011, 92588952012, 92588952013, 92588952014, 92588952015, 92588952016, 92588952017, 92588952018, 92588952019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	02/22/22 11:55	
1,1,1-Trichloroethane	ug/kg	ND	5.0	02/22/22 11:55	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	02/22/22 11:55	
1,1,2-Trichloroethane	ug/kg	ND	5.0	02/22/22 11:55	
1,1-Dichloroethane	ug/kg	ND	5.0	02/22/22 11:55	
1,1-Dichloroethene	ug/kg	ND	5.0	02/22/22 11:55	
1,1-Dichloropropene	ug/kg	ND	5.0	02/22/22 11:55	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	02/22/22 11:55	
1,2,3-Trichloropropane	ug/kg	ND	5.0	02/22/22 11:55	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	02/22/22 11:55	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	02/22/22 11:55	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	02/22/22 11:55	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	02/22/22 11:55	
1,2-Dichlorobenzene	ug/kg	ND	5.0	02/22/22 11:55	
1,2-Dichloroethane	ug/kg	ND	5.0	02/22/22 11:55	
1,2-Dichloropropane	ug/kg	ND	5.0	02/22/22 11:55	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	02/22/22 11:55	
1,3-Dichlorobenzene	ug/kg	ND	5.0	02/22/22 11:55	
1,3-Dichloropropane	ug/kg	ND	5.0	02/22/22 11:55	
1,4-Dichlorobenzene	ug/kg	ND	5.0	02/22/22 11:55	
2,2-Dichloropropane	ug/kg	ND	5.0	02/22/22 11:55	
2-Butanone (MEK)	ug/kg	ND	100	02/22/22 11:55	
2-Chlorotoluene	ug/kg	ND	5.0	02/22/22 11:55	
2-Hexanone	ug/kg	ND	50.0	02/22/22 11:55	
4-Chlorotoluene	ug/kg	ND	5.0	02/22/22 11:55	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	02/22/22 11:55	
Acetone	ug/kg	ND	100	02/22/22 11:55	
Benzene	ug/kg	ND	5.0	02/22/22 11:55	
Bromobenzene	ug/kg	ND	5.0	02/22/22 11:55	
Bromochloromethane	ug/kg	ND	5.0	02/22/22 11:55	
Bromodichloromethane	ug/kg	ND	5.0	02/22/22 11:55	
Bromoform	ug/kg	ND	5.0	02/22/22 11:55	
Bromomethane	ug/kg	ND	10.0	02/22/22 11:55	IK,v1
Carbon tetrachloride	ug/kg	ND	5.0	02/22/22 11:55	
Chlorobenzene	ug/kg	ND	5.0	02/22/22 11:55	
Chloroethane	ug/kg	ND	10.0	02/22/22 11:55	
Chloroform	ug/kg	ND	5.0	02/22/22 11:55	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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QUALITY CONTROL DATA

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

METHOD BLANK: 3554846 Matrix: Solid
Associated Lab Samples: 92588952001, 92588952002, 92588952003, 92588952004, 92588952005, 92588952006, 92588952007, 92588952008, 92588952009, 92588952010, 92588952011, 92588952012, 92588952013, 92588952014, 92588952015, 92588952016, 92588952017, 92588952018, 92588952019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/kg	ND	10.0	02/22/22 11:55	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	02/22/22 11:55	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	02/22/22 11:55	
Dibromochloromethane	ug/kg	ND	5.0	02/22/22 11:55	
Dibromomethane	ug/kg	ND	5.0	02/22/22 11:55	
Dichlorodifluoromethane	ug/kg	ND	10.0	02/22/22 11:55	
Diisopropyl ether	ug/kg	ND	5.0	02/22/22 11:55	
Ethylbenzene	ug/kg	ND	5.0	02/22/22 11:55	
Hexachloro-1,3-butadiene	ug/kg	ND	10.0	02/22/22 11:55	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	02/22/22 11:55	
m&p-Xylene	ug/kg	ND	10.0	02/22/22 11:55	
Methyl-tert-butyl ether	ug/kg	ND	5.0	02/22/22 11:55	
Methylene Chloride	ug/kg	ND	20.0	02/22/22 11:55	
n-Butylbenzene	ug/kg	ND	5.0	02/22/22 11:55	
n-Propylbenzene	ug/kg	ND	5.0	02/22/22 11:55	
Naphthalene	ug/kg	ND	5.0	02/22/22 11:55	
o-Xylene	ug/kg	ND	5.0	02/22/22 11:55	
p-Isopropyltoluene	ug/kg	ND	5.0	02/22/22 11:55	
sec-Butylbenzene	ug/kg	ND	5.0	02/22/22 11:55	
Styrene	ug/kg	ND	5.0	02/22/22 11:55	
tert-Butylbenzene	ug/kg	ND	5.0	02/22/22 11:55	
Tetrachloroethene	ug/kg	ND	5.0	02/22/22 11:55	
Toluene	ug/kg	ND	5.0	02/22/22 11:55	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	02/22/22 11:55	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	02/22/22 11:55	
Trichloroethene	ug/kg	ND	5.0	02/22/22 11:55	
Trichlorofluoromethane	ug/kg	ND	5.0	02/22/22 11:55	
Vinyl acetate	ug/kg	ND	50.0	02/22/22 11:55	
Vinyl chloride	ug/kg	ND	10.0	02/22/22 11:55	
Xylene (Total)	ug/kg	ND	10.0	02/22/22 11:55	
1,2-Dichloroethane-d4 (S)	%	111	70-130	02/22/22 11:55	
4-Bromofluorobenzene (S)	%	101	69-134	02/22/22 11:55	
Toluene-d8 (S)	%	101	70-130	02/22/22 11:55	

LABORATORY CONTROL SAMPLE: 3554847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1250	1150	92	70-130	
1,1,1-Trichloroethane	ug/kg	1250	1070	86	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	1250	1100	88	70-130	
1,1,2-Trichloroethane	ug/kg	1250	1130	91	70-130	
1,1-Dichloroethane	ug/kg	1250	1060	85	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

LABORATORY CONTROL SAMPLE: 3554847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	1250	1050	84	70-130	
1,1-Dichloropropene	ug/kg	1250	1060	85	70-130	
1,2,3-Trichlorobenzene	ug/kg	1250	1220	97	65-130	
1,2,3-Trichloropropane	ug/kg	1250	1120	89	70-130	
1,2,4-Trichlorobenzene	ug/kg	1250	1240	99	68-130	
1,2,4-Trimethylbenzene	ug/kg	1250	1090	87	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	1250	1210	97	70-130	
1,2-Dibromoethane (EDB)	ug/kg	1250	1130	90	70-130	
1,2-Dichlorobenzene	ug/kg	1250	1140	91	70-130	
1,2-Dichloroethane	ug/kg	1250	1120	90	63-130	
1,2-Dichloropropane	ug/kg	1250	1090	87	70-130	
1,3,5-Trimethylbenzene	ug/kg	1250	1130	91	70-130	
1,3-Dichlorobenzene	ug/kg	1250	1180	95	70-130	
1,3-Dichloropropane	ug/kg	1250	1080	87	70-130	
1,4-Dichlorobenzene	ug/kg	1250	1120	89	70-130	
2,2-Dichloropropane	ug/kg	1250	1120	90	66-130	
2-Butanone (MEK)	ug/kg	2500	2310	92	70-130	
2-Chlorotoluene	ug/kg	1250	1080	86	70-130	
2-Hexanone	ug/kg	2500	2350	94	70-130	
4-Chlorotoluene	ug/kg	1250	1060	85	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	2500	2510	100	70-130	
Acetone	ug/kg	2500	2360	94	69-130	
Benzene	ug/kg	1250	1040	83	70-130	
Bromobenzene	ug/kg	1250	1160	93	70-130	
Bromochloromethane	ug/kg	1250	1070	85	70-130	
Bromodichloromethane	ug/kg	1250	1160	93	69-130	
Bromoform	ug/kg	1250	1240	99	70-130	
Bromomethane	ug/kg	1250	1950	156	52-130	IK,L1,v1
Carbon tetrachloride	ug/kg	1250	1150	92	70-130	
Chlorobenzene	ug/kg	1250	1120	89	70-130	
Chloroethane	ug/kg	1250	1210	97	65-130	
Chloroform	ug/kg	1250	1100	88	70-130	
Chloromethane	ug/kg	1250	1060	85	55-130	
cis-1,2-Dichloroethene	ug/kg	1250	1100	88	70-130	
cis-1,3-Dichloropropene	ug/kg	1250	1110	89	70-130	
Dibromochloromethane	ug/kg	1250	1080	87	70-130	
Dibromomethane	ug/kg	1250	1200	96	70-130	
Dichlorodifluoromethane	ug/kg	1250	1150	92	45-156	
Diisopropyl ether	ug/kg	1250	1040	83	70-130	
Ethylbenzene	ug/kg	1250	1050	84	70-130	
Hexachloro-1,3-butadiene	ug/kg	1250	1340	107	66-130	
Isopropylbenzene (Cumene)	ug/kg	1250	1170	94	70-130	
m&p-Xylene	ug/kg	2500	2280	91	70-130	
Methyl-tert-butyl ether	ug/kg	1250	1040	84	70-130	
Methylene Chloride	ug/kg	1250	1190	96	65-130	
n-Butylbenzene	ug/kg	1250	1150	92	67-130	
n-Propylbenzene	ug/kg	1250	1070	86	70-130	

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REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

LABORATORY CONTROL SAMPLE: 3554847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	1250	1140	92	70-130	
o-Xylene	ug/kg	1250	1140	91	70-130	
p-Isopropyltoluene	ug/kg	1250	1170	94	67-130	
sec-Butylbenzene	ug/kg	1250	1120	90	69-130	
Styrene	ug/kg	1250	1180	95	70-130	
tert-Butylbenzene	ug/kg	1250	1190	95	67-130	
Tetrachloroethene	ug/kg	1250	1080	87	70-130	
Toluene	ug/kg	1250	1080	87	70-130	
trans-1,2-Dichloroethene	ug/kg	1250	1090	88	70-130	
trans-1,3-Dichloropropene	ug/kg	1250	1180	94	68-130	
Trichloroethene	ug/kg	1250	1080	86	70-130	
Trichlorofluoromethane	ug/kg	1250	1030	83	70-130	
Vinyl acetate	ug/kg	2500	2650	106	70-130	
Vinyl chloride	ug/kg	1250	1050	84	61-130	
Xylene (Total)	ug/kg	3750	3420	91	70-130	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			100	69-134	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 3554849

Parameter	Units	92588952002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	928	791	85	70-131	
1,1,1-Trichloroethane	ug/kg	ND	928	807	87	65-133	
1,1,2,2-Tetrachloroethane	ug/kg	ND	928	699	75	66-130	
1,1,2-Trichloroethane	ug/kg	ND	928	750	81	66-133	
1,1-Dichloroethane	ug/kg	ND	928	772	83	65-130	
1,1-Dichloroethene	ug/kg	ND	928	833	90	10-158	
1,1-Dichloropropene	ug/kg	ND	928	809	87	68-133	
1,2,3-Trichlorobenzene	ug/kg	ND	928	848	91	27-138	
1,2,3-Trichloropropane	ug/kg	ND	928	627	68	67-130	
1,2,4-Trichlorobenzene	ug/kg	ND	928	889	96	51-134	
1,2,4-Trimethylbenzene	ug/kg	ND	928	809	87	63-136	
1,2-Dibromo-3-chloropropane	ug/kg	ND	928	706	76	32-130	
1,2-Dibromoethane (EDB)	ug/kg	ND	928	729	79	70-130	
1,2-Dichlorobenzene	ug/kg	ND	928	823	89	69-130	
1,2-Dichloroethane	ug/kg	ND	928	720	78	59-130	
1,2-Dichloropropane	ug/kg	ND	928	773	83	70-130	
1,3,5-Trimethylbenzene	ug/kg	ND	928	833	90	65-137	
1,3-Dichlorobenzene	ug/kg	ND	928	836	90	70-130	
1,3-Dichloropropane	ug/kg	ND	928	747	81	70-130	
1,4-Dichlorobenzene	ug/kg	ND	928	807	87	68-130	
2,2-Dichloropropane	ug/kg	ND	928	328	35	32-130	
2-Butanone (MEK)	ug/kg	ND	1860	1330	72	10-136	
2-Chlorotoluene	ug/kg	ND	928	782	84	69-141	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

MATRIX SPIKE SAMPLE: 3554849

Parameter	Units	92588952002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/kg	ND	1860	1330	72	10-144	
4-Chlorotoluene	ug/kg	ND	928	751	81	70-132	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	1860	1470	79	25-143	
Acetone	ug/kg	ND	1860	1250	68	10-130	
Benzene	ug/kg	ND	928	796	86	67-130	
Bromobenzene	ug/kg	ND	928	813	88	70-130	
Bromochloromethane	ug/kg	ND	928	731	79	69-134	
Bromodichloromethane	ug/kg	ND	928	770	83	64-130	
Bromoform	ug/kg	ND	928	700	75	62-130	
Bromomethane	ug/kg	ND	928	689	74	20-176	IK,v1
Carbon tetrachloride	ug/kg	ND	928	861	93	65-140	
Chlorobenzene	ug/kg	ND	928	798	86	70-130	
Chloroethane	ug/kg	ND	928	411	44	10-130	
Chloroform	ug/kg	ND	928	796	86	63-130	
Chloromethane	ug/kg	ND	928	809	87	58-130	
cis-1,2-Dichloroethene	ug/kg	ND	928	788	85	66-130	
cis-1,3-Dichloropropene	ug/kg	ND	928	626	67	67-130	
Dibromochloromethane	ug/kg	ND	928	664	72	67-130	
Dibromomethane	ug/kg	ND	928	796	86	63-131	
Dichlorodifluoromethane	ug/kg	ND	928	872	94	44-180	
Diisopropyl ether	ug/kg	ND	928	719	78	63-130	
Ethylbenzene	ug/kg	ND	928	772	83	66-130	
Hexachloro-1,3-butadiene	ug/kg	ND	928	1020	110	64-150	
Isopropylbenzene (Cumene)	ug/kg	ND	928	848	91	69-135	
m&p-Xylene	ug/kg	ND	1860	1630	88	60-133	
Methyl-tert-butyl ether	ug/kg	ND	928	740	80	65-130	
Methylene Chloride	ug/kg	ND	928	819	88	61-130	
n-Butylbenzene	ug/kg	ND	928	825	89	65-140	
n-Propylbenzene	ug/kg	ND	928	775	84	67-140	
Naphthalene	ug/kg	ND	928	773	83	15-145	
o-Xylene	ug/kg	ND	928	801	86	66-133	
p-Isopropyltoluene	ug/kg	ND	928	873	94	56-147	
sec-Butylbenzene	ug/kg	ND	928	833	90	65-139	
Styrene	ug/kg	ND	928	781	84	70-132	
tert-Butylbenzene	ug/kg	ND	928	819	88	62-135	
Tetrachloroethene	ug/kg	ND	928	823	89	70-135	
Toluene	ug/kg	ND	928	813	88	67-130	
trans-1,2-Dichloroethene	ug/kg	ND	928	794	86	69-130	
trans-1,3-Dichloropropene	ug/kg	ND	928	645	70	62-130	
Trichloroethene	ug/kg	ND	928	835	90	70-135	
Trichlorofluoromethane	ug/kg	ND	928	529	57	10-130	
Vinyl acetate	ug/kg	ND	1860	1390	75	53-130	
Vinyl chloride	ug/kg	ND	928	752	81	61-148	
Xylene (Total)	ug/kg	ND	2780	2430	87	63-132	
1,2-Dichloroethane-d4 (S)	%				90	70-130	
4-Bromofluorobenzene (S)	%				96	69-134	
Toluene-d8 (S)	%				98	70-130	

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REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

SAMPLE DUPLICATE: 3554848

Parameter	Units	92588952001 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	ND		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		IK,v1
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	4J		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

SAMPLE DUPLICATE: 3554848

Parameter	Units	92588952001 Result	Dup Result	RPD	Qualifiers
m&p-Xylene	ug/kg	ND	7.5J		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	3.6J		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	96	97		
4-Bromofluorobenzene (S)	%	99	99		
Toluene-d8 (S)	%	100	101		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

QC Batch: 679436
QC Batch Method: SW-846
Analysis Method: SW-846
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92588952001, 92588952002, 92588952003, 92588952004, 92588952005, 92588952006, 92588952007

SAMPLE DUPLICATE: 3555255

Parameter	Units	92588819034 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	20.9	21.0	1	N2

SAMPLE DUPLICATE: 3555256

Parameter	Units	92588952007 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	26.3	29.0	10	N2

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

QC Batch: 679452
QC Batch Method: SW-846
Analysis Method: SW-846
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92588952008, 92588952009, 92588952010, 92588952011, 92588952012, 92588952013, 92588952014, 92588952015, 92588952016, 92588952017, 92588952018, 92588952019

SAMPLE DUPLICATE: 3555297

Parameter	Units	92588952008 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	18.1	19.5	8	N2

SAMPLE DUPLICATE: 3555298

Parameter	Units	92589004003 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	11.7	13.3	13	N2

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

QC Batch: 679457 | Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 | Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92588952020, 92588952021, 92588952022, 92588952023, 92588952024

METHOD BLANK: 3555309 Matrix: Water
Associated Lab Samples: 92588952020, 92588952021, 92588952022, 92588952023, 92588952024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	02/18/22 17:41	
Nitrate as N	mg/L	ND	0.10	02/18/22 17:41	
Sulfate	mg/L	ND	1.0	02/18/22 17:41	

LABORATORY CONTROL SAMPLE: 3555310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	
Nitrate as N	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	49.4	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3555311 3555312

Parameter	Units	92589036001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	428	50	50	475	474	94	93	90-110	0	
Nitrate as N	mg/L	1.8	2.5	2.5	4.4	4.4	104	104	90-110	0	
Sulfate	mg/L	307	50	50	381	360	149	107	90-110	6	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
IK	The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92588952020	SB-2	EPA 3010A	680325	EPA 6010D	680479
92588952021	SB-3	EPA 3010A	680325	EPA 6010D	680479
92588952022	SB-12	EPA 3010A	680325	EPA 6010D	680479
92588952023	SB-13	EPA 3010A	680325	EPA 6010D	680479
92588952024	SB-14	EPA 3010A	680325	EPA 6010D	680479
92588952020	SB-2	EPA 8260D	679412		
92588952021	SB-3	EPA 8260D	679412		
92588952022	SB-12	EPA 8260D	679412		
92588952023	SB-13	EPA 8260D	679412		
92588952024	SB-14	EPA 8260D	679412		
92588952001	SB-1(16)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952002	SB-2(12)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952003	SB-2(20)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952004	SB-2 (28)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952005	SB-3 (18)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952006	SB-3 (24)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952007	SB-5 (18)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952008	SB-7 (18)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952009	SB-9 (24)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952010	SB-11 (12)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952011	SB-11 (18)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952012	SB-12 (14)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952013	SB-12 (18)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952014	SB-13 (16)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952015	SB-13 (22)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952016	SB-14 (14)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952017	SB-14 (22)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952018	SB-16 (14)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952019	SB-17 (24)	EPA 5035A/5030B	679375	EPA 8260D	679377
92588952001	SB-1(16)	SW-846	679436		
92588952002	SB-2(12)	SW-846	679436		
92588952003	SB-2(20)	SW-846	679436		
92588952004	SB-2 (28)	SW-846	679436		
92588952005	SB-3 (18)	SW-846	679436		
92588952006	SB-3 (24)	SW-846	679436		
92588952007	SB-5 (18)	SW-846	679436		
92588952008	SB-7 (18)	SW-846	679452		
92588952009	SB-9 (24)	SW-846	679452		
92588952010	SB-11 (12)	SW-846	679452		
92588952011	SB-11 (18)	SW-846	679452		
92588952012	SB-12 (14)	SW-846	679452		
92588952013	SB-12 (18)	SW-846	679452		
92588952014	SB-13 (16)	SW-846	679452		
92588952015	SB-13 (22)	SW-846	679452		
92588952016	SB-14 (14)	SW-846	679452		
92588952017	SB-14 (22)	SW-846	679452		
92588952018	SB-16 (14)	SW-846	679452		

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ASCEND: ASC7025.RA
Pace Project No.: 92588952

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92588952019	**SB-17 (24)**	SW-846	679452		
92588952020	**SB-2**	EPA 300.0 Rev 2.1 1993	679457		
92588952021	**SB-3**	EPA 300.0 Rev 2.1 1993	679457		
92588952022	**SB-12**	EPA 300.0 Rev 2.1 1993	679457		
92588952023	**SB-13**	EPA 300.0 Rev 2.1 1993	679457		
92588952024	**SB-14**	EPA 300.0 Rev 2.1 1993	679457		

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: HRP Associates, Inc

Project #: WO# : 92588952

92588952

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/18/22 KS

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 92T064

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.7, 2.6, 4.1

Correction Factor: Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 3.7, 2.6, 4.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

				Comments/Discrepancy:
Chain of Custody Present?	☐ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: SL, WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	10.
Trip Blank Present?	☐ Yes	☑ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☑ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Pace Analytical®	Document Name: Bottle Identification Form (BIF)	Document Issued: November 15, 2021
	Document No.: F-CAR-CS-043-Rev.01	Page 1 of 1
		Issuing Authority:

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

Project # **WO#: 92588952**

PM: BV Due Date: 02/24/22

CLIENT: 92-HRP

Matrix	Items	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
	1																						3							
	2																						3							
	3																						3							
	4																						3							
	5																						3							
	6																						3							
	7																						3							
	8																						3							
	9																						3							
	10																						3							
	11																						3							
	12																						3							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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.

2

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

Project #

Items	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK(3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																						3							
2																						3							
3																						3							
4																						3							
5																						3							
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9																3													
10																3													
11																3													
12																3													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical® WWW.PACELABS.COM

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 2

Section A — Required Client Information:

Company:	HRP Associates, Inc.
Address:	1327 Miller Road
	Greenville, SC 29607
Email:	samuel.muller@hrpassociates.com
Phone:	(864)289-0311 Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	Samuel Muller
Copy To:	
Purchase Order #:	
Project Name:	Ascend: ASC7025.RA
Project #:	ASC7031.RA

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	bonnie.vang@pacelabs.com,
Pace Profile #:	9000-1,6

Regulatory Agency

State / Location: SC

SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260	Nitrate/Sulfide/Chloride	VOC by 8260	Dissolved Mn + Fe	HPC	Residual Chlorine (Y/N)	92588152
1	SB-1 (16)	SL	G			2-14	1047		3							X			X						001
2	SB-2 (12)					2-14	1201																		002
3	SB-2 (20)					2-14	1216																		003
4	SB-2 (28)					2-14	1229																		004
5	SB-3 (18)					2-14	1319																		005
6	SB-3 (24)					2-14	1328																		006
7	SB-5 (18)					2-14	1520																		007
8	SB-7 (18)					2-15	848																		008
9	SB-9 (24)					2-15	1021																		009
10	SB-11 (12)					2-15	1235																		010
11	SB-11 (18)					2-15	1246																		011
12	SB-12 (14)					2-15	1305																		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	2-17-22	1302	CDC / Pace	2.17.22	1302				
	CDC / Pace	2.17.22	1430	Rachel Bulsendal / R	2/17/22	14:30	4.5	Y	N	Y
	N. Morris / Pace An	2/17/22	2100	KS Pace HVL	2/18/22	0800	3.7			

SAMPLE CONDITIONS

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: SAM MULLER

SIGNATURE of SAMPLER: [signature]

DATE Signed: 2-17-22

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A — Required Client Information:
Company: HRP Associates, Inc.
Address: 1327 Miller Road
Anderson, SC 29607
Email: samuel.muller@hrpassociates.com
Phone: (864)289-0311 Fax:
Requested Due Date:

Section B — Required Project Information:
Report To: Samuel Muller
Copy To:
Purchase Order #:
Project Name: Ascend: ASC7025.RA
Project #:

Section C — Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: bonnie.vang@pacelabs.com,
Pace Profile #: 9000-1,6

Regulatory Agency:
State / Location: SC

SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260	Nitrate/Sulfide/Chloride	VOC by 8260	Dissolved Mn + Fe	HPC	Residual Chlorine (Y/N)	925888952
SB-12 (18)	SL	G			2-15	1321									X					X				013
SB-13 (16)					2-15	1454																		014
SB-13 (22)					2-15	1420																		015
SB-14 (14)					2-15	1520																		016
SB-14 (22)					2-15	1532																		017
SB-16 (14)					2-16	947																		018
SB-17 (24)					2-16	1120																		019
SB-2	WT				2-15	1103		5			X	X					X	X		X				020
SB-3	WT				2-15	1324		5																021
~~SB-18~~ SB-12	WT				2-15	1556		5																022
SB-13	WT				2-15	1735		5																023
SB-14	WT				2-16	1022		5																024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
		2-17-22	1302	Pace	2.17.22	1302
	Pace	2.17.22	1430	Rachel Delgado/PR	2/17/22	14:30
	M. Parker / Pace Anl	2/17/22	2100	KS Pace HVL	2/18/22	0800

SAMPLE CONDITIONS				
TEMP in C	Received on Ice (Y/N)		Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
4.3	Y		N	Y
3.7				

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: SAM MULLER
SIGNATURE of SAMPLER: [signature] DATE Signed: 2-17-22

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☑ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: HRP ASSOC.

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Date/Initials Person Examining Contents: RAD 2/17

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer: ☒ IR Gun ID: 93T021 **Type of Ice:** ☒ Wet ☐ Blue ☐ None

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Cooler Temp: 4.3|4.5 **Correction Factor:** Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 4.3|4.5

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☒ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No
Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☒ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1				✓ 1																						
2		1				✓ 1																						
3		1				✓ 1																						
4		1				✓ 1																						
5		1				✓ 1																						
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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.

Report of Analysis

HRP Associates, Inc
1327 Miller Road
Suite D
Greenville, SC 29607
Attention: Samuel Muller

Project Name: Ascend

Project Number: ASC 7031.RA

Lot Number:**XB16037**

Date Completed:02/21/2022

02/24/2022 1:20 PM
Approved and released by:
Project Manager II: **Lucas Odom**

The electronic signature above is the equivalent of a handwritten signature.

Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

Case Narrative
HRP Associates, Inc
Lot Number: XB16037

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

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18.

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

Sample Summary
HRP Associates, Inc
Lot Number: XB16037

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SB-2	Aqueous	02/16/2022 1033	02/16/2022
002	SB-3	Aqueous	02/16/2022 1041	02/16/2022
003	SB-12	Aqueous	02/16/2022 1050	02/16/2022
004	SB-13	Aqueous	02/16/2022 1059	02/16/2022
005	SB-14	Aqueous	02/16/2022 1022	02/16/2022

(5 samples)

Detection Summary
HRP Associates, Inc
Lot Number: XB16037

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	SB-2	Aqueous	Heterotrophic Plate Count	Simplate	>738		MPN/mL	5
002	SB-3	Aqueous	Heterotrophic Plate Count	Simplate	>738		MPN/mL	6
003	SB-12	Aqueous	Heterotrophic Plate Count	Simplate	>738		MPN/mL	7
004	SB-13	Aqueous	Heterotrophic Plate Count	Simplate	72.5	*	MPN/mL	8
005	SB-14	Aqueous	Heterotrophic Plate Count	Simplate	31.5		MPN/mL	9

(5 detections)

Client: **HRP Associates, Inc**
Description: **SB-2**
Date Sampled: **02/16/2022 1033**
Date Received: **02/16/2022**

Laboratory ID: **XB16037-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Heterotrophi) Simplate	1	02/18/2022 1620	MSG	02/16/2022 1538	

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Heterotrophic Plate Count		**Simplate**	**>738**		**2**	**MPN/mL**	**1**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	Q = Surrogate failure
ND = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		S = MS/MSD failure

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

Client: **HRP Associates, Inc** Laboratory ID: **XB16037-002**

Description: **SB-3** Matrix: **Aqueous**

Date Sampled: **02/16/2022 1041**

Date Received: **02/16/2022**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Heterotrophi) Simplate	1	02/18/2022 1620	MSG	02/16/2022 1538	

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Heterotrophic Plate Count		**Simplate**	**>738**		**2**	**MPN/mL**	**1**

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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Client: **HRP Associates, Inc** Laboratory ID: **XB16037-003**

Description: **SB-12** Matrix: **Aqueous**

Date Sampled: **02/16/2022 1050**

Date Received: **02/16/2022**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Heterotrophi) Simplate	1	02/18/2022 1620	MSG	02/16/2022 1538	

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Heterotrophic Plate Count		**Simplate**	**>738**		**2**	**MPN/mL**	**1**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	Q = Surrogate failure
ND = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		S = MS/MSD failure

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Client: **HRP Associates, Inc** Laboratory ID: **XB16037-004**

Description: **SB-13** Matrix: **Aqueous**

Date Sampled: **02/16/2022 1059**

Date Received: **02/16/2022**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Heterotrophi) Simplate	1	02/18/2022 1620	MSG	02/16/2022 1538	

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Heterotrophic Plate Count		**Simplate**	**72.5**	*	**2**	**MPN/mL**	**1**

Footnote(s): *HPC: Duplicates out of 25% RPD;

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	Q = Surrogate failure
ND = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		S = MS/MSD failure

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Client: **HRP Associates, Inc**
Description: **SB-14**
Date Sampled: **02/16/2022 1022**
Date Received: **02/16/2022**

Laboratory ID: **XB16037-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Heterotrophi) Simplate	1	02/18/2022 1620	MSG	02/16/2022 1538	

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Heterotrophic Plate Count		**Simplate**	**31.5**		**2**	**MPN/mL**	**1**

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	Q = Surrogate failure
ND = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		S = MS/MSD failure

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QC Summary

Chain of Custody
and
Miscellaneous Documents

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: HRP Associates, Inc.	Report To: Samuel Muller	Attention:
Address: 1327 Miller Road	Copy To:	Company Name:
Greenville, SC 29607		Address:
Email: samuel.muller@hrpassociates.com	Purchase Order #:	Pace Quote:
Phone: (864)289-0811 Fax:	Project Name: Ascend: ASC7025.RA	Pace Project Manager: bonnie.virag@pacelabs.com,
Requested Due Date: STANDARD	Project #: ASC 7025.RA	Pace Profile #: 9000-1,6

Regulatory Agency

State / Location: SC

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: 3250	NitrateSulfate/Chloride	VOC by 8260	Dissolved Mn + Fe	HPC	Residual Chlorine (Y/N)
1	SB-2	WT	G			2-16	1033		1								X					X	
2	SB-3						1041		1								X					X	
3	SB-12						1050		1								X					X	
4	SB-13						1059		1								X					X	
5	SB-14						1022		1								X					X	
6																							
7																							
8																							
9																							
10																							
11																							
12																							

XB16037

LIC

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		2-16-22	1225		2-16-22	1225				
	Pace	2/16/22	1615		2/16/22	1615	2.3	Y	N	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: SAM MULLER

SIGNATURE of SAMPLER: [signature] DATE Signed: 2-16-22

PACE ANALYTICAL SERVICES, LLC

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Pace Analytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCO_

Revised:9/29/2020
Page 1 of 1

Sample Receipt Checklist (SRC)

Client: HRP Cooler Inspected by/date: JSH / 02/16/2022 Lot #: XH16037

Means of receipt: ☑ Pace ☐ Client ☐ UPS ☐ FedEx ☐ Other:

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA

2.5 / 2.3 °C NA / NA °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☐ Yes	☐ No	☑ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☐ No	☑ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote #

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA.

Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is ***no***) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA.

SR barcode labels applied by: MH Date: 02/16/2022

Comments: