

Exhibit DD.

Germania Site

Phase II Environmental Site Assessment





ECS SOUTHEAST, LLP

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NC Registered Geologists Firm C-553
SC Registered Engineering Firm 3239

Germania Site Phase II Environmental Site Assessment

March 16, 2022

Mr. Elliott Boudreaux
CSRS, Inc
6767 Perkins Road
Suite 200
Baton Rouge, Louisiana 70808

Reference: Report of Environmental Assessment
Germania Site Soil Sampling
8507 LA Highway 405
Donaldsonville, Ascension Parish, Louisiana 70346
ECS Project Number 49-16460

Dear Mr. Boudreaux:

As authorized by your acceptance on February 15, 2022, of ECS Proposal No. 49: 26107P dated August 13, 2021; ECS Southeast, LLP (ECS) has completed an Environmental Assessment Report for the above-referenced site. Included in this report is a description of the field activities, the results obtained, and our conclusions and recommendations.

ECS appreciates the opportunity to provide our environmental consulting services to you on this project. If you have any questions concerning this report or this project, please contact us.

Sincerely,

ECS SOUTHEAST, LLP

Bill Penick
Senior Project Manager
bpenick@ecslimited.com
225-224-3145

Roger A. Smith
Principal Geologist
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704-525-5152

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I. BACKGROUND INFORMATION

CEG Assessments (CEG) previously performed a Phase I Environmental Site Assessment (ESA) dated May 27, 2021 of the property located at 8507 Louisiana Highway 405, in Donaldsonville, Ascension Parish, Louisiana. Based on the information within the ESA, the subject property is currently utilized as agricultural land for the cultivation of row crops. The central portion of the property is developed with a dilapidated sugar mill and various remnant mill equipment is present. The northeast portion of the property is developed with numerous dilapidated vacant structures including residences, a church, barns, sheds, and equipment buildings. Various kinds of remnant debris associated with past agricultural and residential uses of the property were observed throughout the northeastern and central portions of the property. The southwestern boundary of the property includes a natural gas pipeline easement, and equipment owned by the utility for the operation of the pipeline was observed. The site location is indicated on the USGS topographic map, included as **Figure 1** and an aerial of the site is included on a vicinity map that is included as **Figure 2**.

Information contained in CEG's ESA indicates that based upon interviews and a review of various historical resources, the subject property has been agricultural land since the 1800s, and formerly occupied by a plantation and sugar cane mill. The plantation was identified as having been built in the early 1800s and consisted of the main plantation home and 20 outbuildings including a sugar mill. The sugar mill formerly contained sugar cane processing machinery, a vacuum pan, and a six-roller mill. The sugar house was constructed in 1886. The property has not been utilized as a residence since 1981, although cultivation of the fields has continued.

Information contained in CEG's ESA indicates that the process of sugar production included a multi-step process where raw sugar cane was prepared by cutting or shredding it, the cane is then milled by squeezing the cane under high pressure using heavy metal rollers. Hot water is then typically applied to the cane just before it enters the last roller in the mill. Once the juice has been extracted from the sugar cane, it is then clarified to remove solids and then evaporated to concentrate the juice to a thick syrup in a vacuum pan. The syrup is then clarified, crystallized, separated, and packaged for sale as sugar. Except as noted below, based on the time elapsed since milling activities were conducted at the subject property, this historical use does not appear to represent an environmental concern to the Subject property at this time.

The CEG ESA report indicated its assessment revealed no evidence of Recognized Environmental Conditions (RECs), Historical RECs (HRECs), and/or Controlled RECs (CRECs) except for the following:

Waste Generation, Treatment, Storage, and Disposal

- Numerous empty containers, drums, vats, old equipment/sugar kettles, discarded metal, tires, and vehicles were observed along the northeastern portion of the property and near the old sugar mill facility. These items were observed in areas overgrown with vegetation allowing limited visual observation of their contents. Since these materials have been abandoned for a significant period of time (over 40 years), the potential exists that a release of petroleum products or hazardous materials may have occurred. Therefore, this material represents a REC to the Subject Property.

Facility Storage Tanks and Pipelines

- Seven abandoned and rusted steel Aboveground Storage Tanks (ASTs) were observed on the northeastern portion of the property and near the old sugar mill facility. No indication of the previous

contents of the ASTs was visible on any of the tanks; however, it appears likely they formerly contained petroleum fuels and propane. Based on the poor condition of the tanks and their apparent age, the potential exists for unidentified release incidents. Therefore, the abandoned ASTs represent a REC to the Subject Property.

Based on a request from CSRS, Inc., ECS proposed to conduct environmental assessment services in order to further assess the site for potential impacts resulting from the RECs identified by CEG.

II. FIELD ACTIVITIES

Environmental assessment activities were conducted by ECS on March 2, 2022 and consisted of the collection of soil samples in the area of the reported abandoned ASTs, empty containers, drums, vats, old equipment/sugar kettles, discarded metal, tires, and vehicles, and submittal for laboratory analysis. ECS advanced seven (7) soil borings (SB-1 through SB-7) using a hand auger to a depth of approximately four (4) feet below ground surface (bgs) in the vicinity of the abandoned ASTs, empty containers, drums, vats, old equipment/sugar kettles, discarded metal, tires, and vehicles on the subject property. One (1) soil sample was collected from each of the borings and submitted to Pace Analytical Services, LLP (Pace) for laboratory analysis. ECS screened soils in the field for volatile organic soil vapors using an Organic Vapor Monitor (OVM) equipped with a PID. ECS also examined soil from each boring and noted apparent evidence of staining and/or odors, if present. The soil sample selected for laboratory analysis from each boring was selected over an interval within each boring based upon the fields screening and observations. Each sample was then placed into laboratory provided containers. **Appendix A** includes boring logs.

Pre-sampling Activities

Based on our understanding of the project information, ECS conducted the following pre-assessment services:

- Prior to implementing the field activities, ECS contacted Louisiana 811 to locate underground utilities at the site.

Soil Sampling Activities

On March 2, 2022, ECS advanced seven (7) soil borings (SB-1 through SB-7) by hand auger to approximately six (6) feet below ground surface (bgs) in the vicinity of the abandoned ASTs, empty containers, drums, vats, old equipment/sugar kettles, discarded metal, tires, and vehicles on the subject property. The approximate locations of the soil borings are shown on **Figure 3**. ECS field screened the soil collected from the borings by noting staining, odors, etc. as well as by using a PID to detect volatile organic vapors. Volatile organic vapors were detected in the soils collected from the seven (7) soil borings ranging from 0.0 parts per million (ppm) to 0.4 ppm. The samples selected for laboratory analysis were: SB-1 (0-2 feet below ground surface, or ft. bgs.); SB-2 (4-6 ft. bgs.); SB-3 (2-4 ft. bgs.); SB-4 (0-2 ft. bgs.); SB-5 (0-2 ft. bgs.); SB-6 (0-2 ft. bgs.); and SB-7 (2-4 ft. bgs.).

Following collection, the soil samples were transferred into sample containers provided by the laboratory. The sample containers were labeled with ECS project number, sample identification, sample date and time, and requested analytical analysis. The containers were placed into protective packaging material and placed into a cooler with ice to maintain the samples at approximately 4° Celsius (°C). The samples were submitted to Pace in Baton Rouge, Louisiana for chemical analysis for volatile organic compounds (VOCs) by EPA Method 8260, volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH) using the MADEP methods. Chain-of-Custody (COC) procedures were followed throughout the sampling and transportation of the samples. The laboratory results were compared to the Louisiana Department of Environmental Quality-Risk Evaluation and Corrective Action Program (LDEQ-RECAP) Screening Standards. The Chain-of-Custody and the Laboratory Analytical Results are included in **Appendix B**.

III. RESULTS

Soil Analytical Results

The laboratory analysis identified several VOC constituents at concentrations above their respective laboratory reporting limits in the various samples but each of the concentrations were below their respective LDEQ-RECAP Screening Standards.

The remaining VOC, VPH, and EPH sample concentrations were reported to be below their respective laboratory reporting limits. A summary of the soil laboratory analytical results is included in **Table 1**.

IV. CONCLUSIONS

Based on the field observation and laboratory analytical results of this assessment, ECS concludes the following:

- ECS collected seven (7) soil samples at the subject property in the vicinity of RECs identified by others, in order to further assess the RECs.
- The soil samples were submitted for laboratory analysis of VOCs, EPH and VPH.
- Results of the analysis detected various VOCs in the samples: however, the concentrations were below their respective LDEQ-RECAP Screening Standards. The remaining VOC, VPH and EPH sample concentrations were reported below their respective laboratory reporting limits.

V. RECOMMENDATIONS

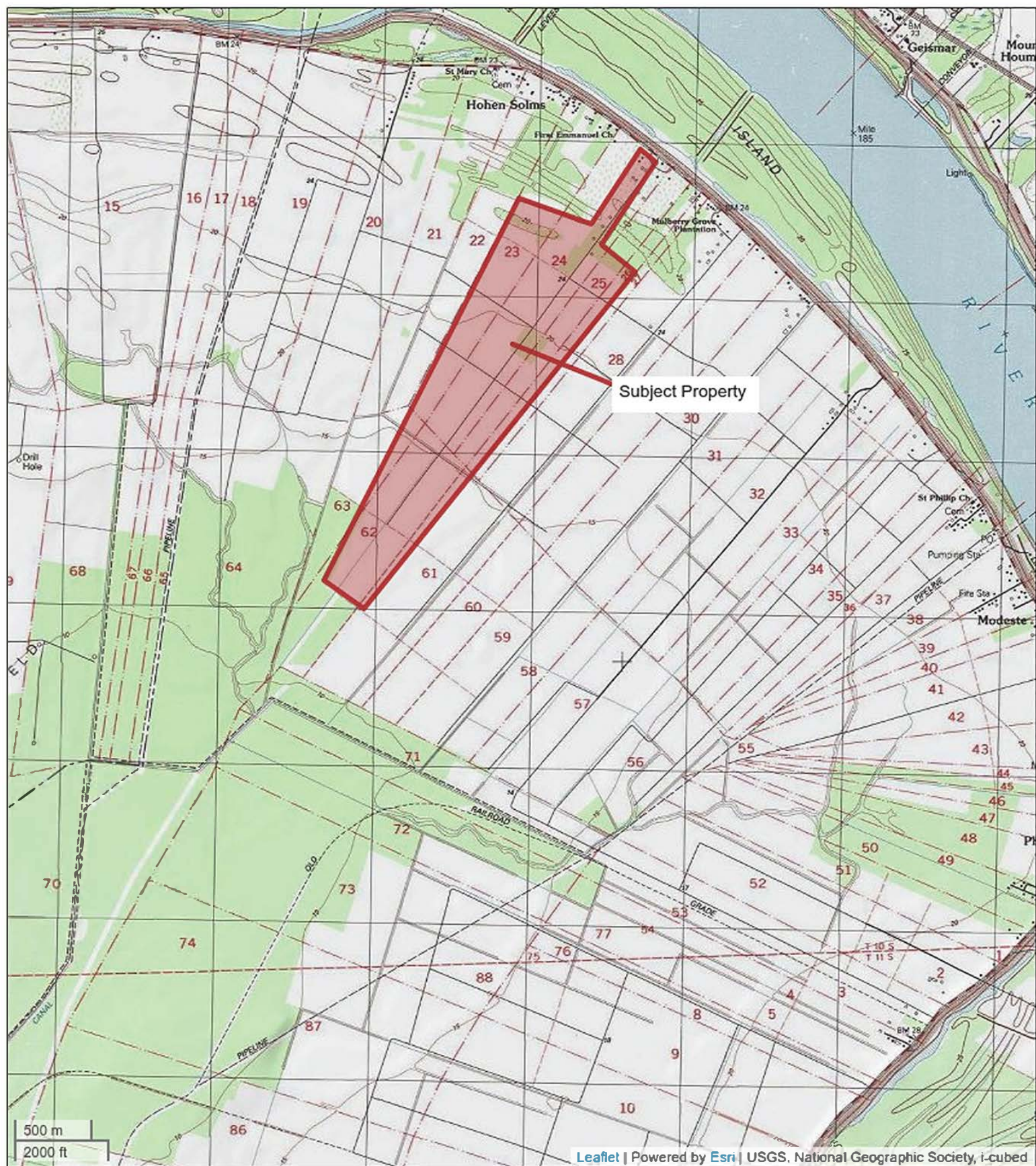
Based on the field observation and laboratory analytical results of this assessment, ECS recommends the following:

- ECS does not recommend further environmental assessment of the subject property at this time, due to the detections being below the LDEQ-RECAP Screening Standards. If apparent evidence of environmentally-impacted soils are encountered at the site during future construction activities, further assessment may be warranted.

VI. QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in assessment projects of this type. Our evaluation of site conditions has been based on our understanding of the site project information and the data obtained during our previous assessment and field activities.

FIGURES



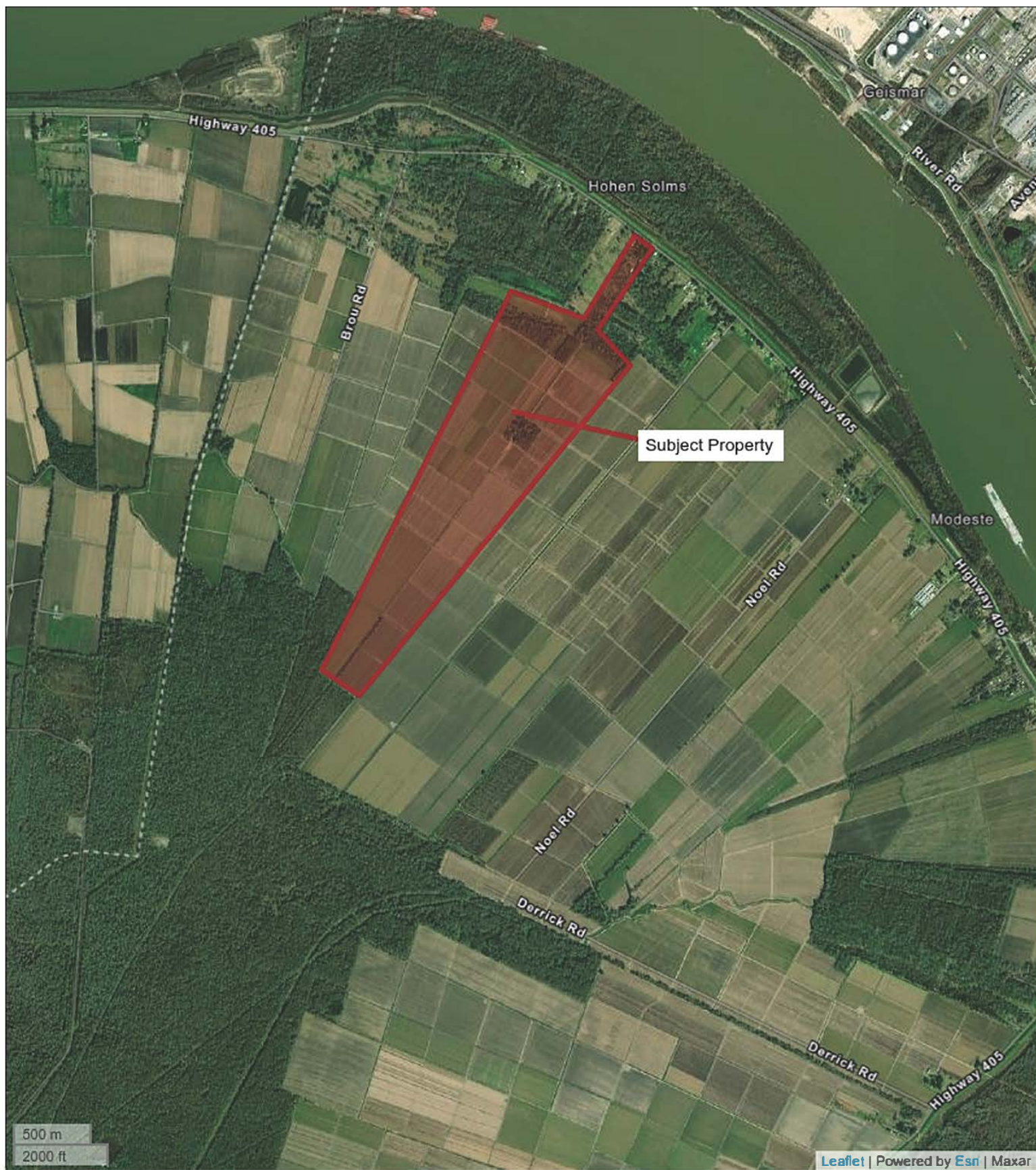
49-16460

Figure 1

Topographic Map

8507 LA 405

Donaldsonville, Ascension Parish, Louisiana



49-16460

Figure 2

Site Vicinity Map

8507 LA 405

Donaldsonville, Ascension Parish, Louisiana

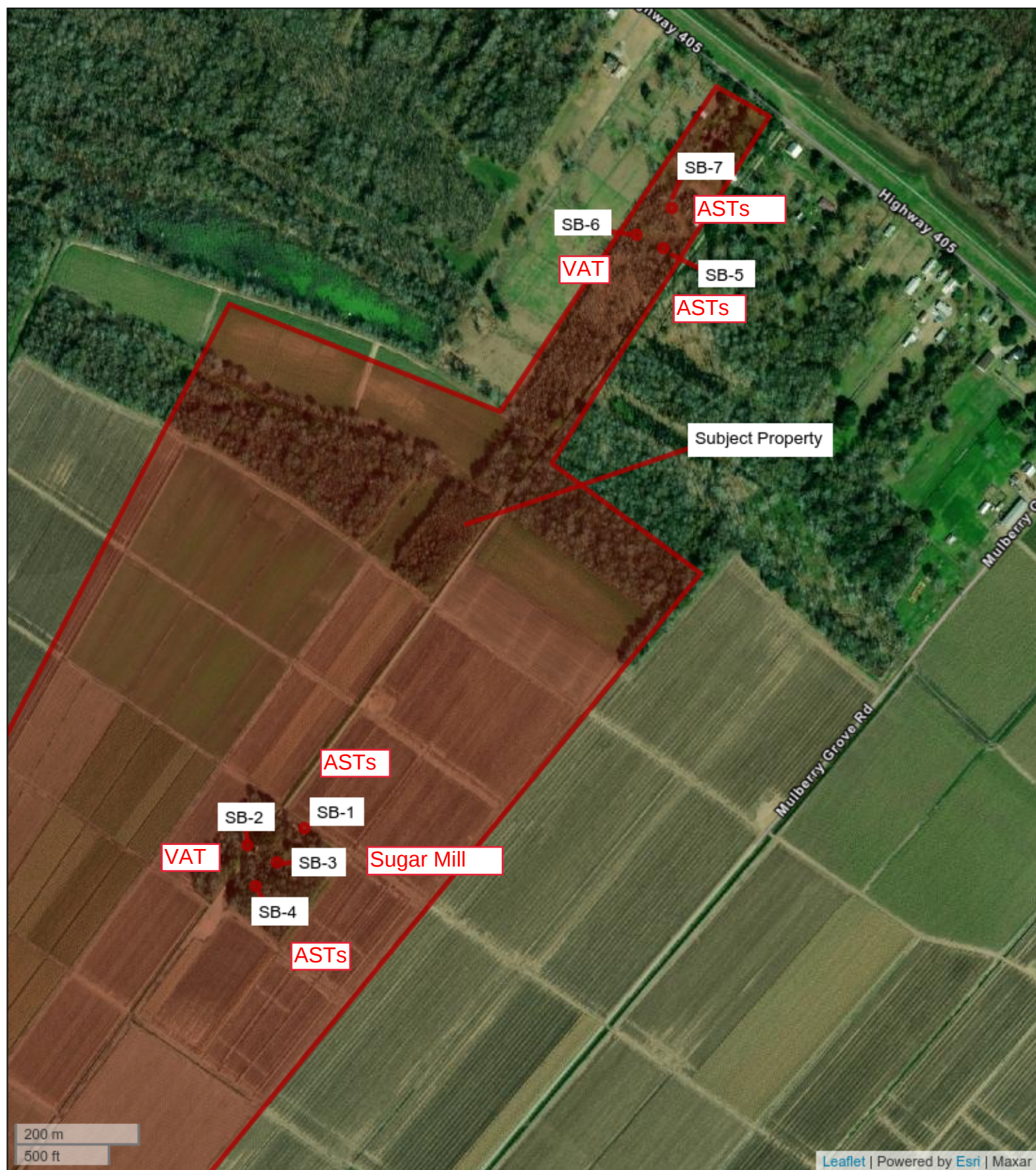


Figure 3
49-16460
Soil Boring Location Map
Germania Site
8507 LA 405
Donaldsonville, Ascension Parish, Louisiana

TABLES

TABLE 1: SUMMARY OF VOCs, VPH, and EPH IN SOIL

Environmental Services Germania Site
 8507 LA Hwy. 405
 Donaldsonville, Ascension Parish, Louisiana
 ECS PROJECT NO. 49-16460

Parameter	ANALYTICAL RESULTS							COMPARISION CRITERIA		
Sample ID	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	Soil Non-Industrial Screening Standards LDEQ-RECAP (Soil)	Soil Industrial/Commercial Screening Standards LDEQ-RECAP (Ssi)	Soil Protection of Groundwater LDEQ- RECAP Screening Standards (SSGW)
Sample Depth (ft)	0-2	2-4	0-2	2-4	0-2	0-2	2-4			
Collection Date	3/02/22									
Volatile Organic Compounds (VOCs) by EPA Method 8260B										
2-Butanone (methyl ethyl ketone)	0.00139J	<0.000385U	0.00479J	<0.000400U	<0.000427U	<0.000435U	<0.000401U	590	4,400	5.0
Acetone	0.00915J	0.00461J	0.030	0.00944J	0.00744J	0.00624J	0.00661J	170	1400	88
Benzene	<0.000194U	<0.000192U	0.000999J	<0.000200U	<0.000214U	<0.000217U	0.000314J	1.5	3.1	0.051
Carbon disulfide	<0.000194U	<0.000192U	0.000363J	<0.000200U	<0.000214U	<0.000217U	<0.000201U	36	250	11
Volatile Petroleum Hydrocarbons (VPH) by MADEP Method										
Aliphatic >C8-C10	<2.9	<2.8	<4.1	<2.6	<2.8	<3.0	<2.9	120	880	5,300
Aliphatic C6-C8	<3.5	<3.4	<5.0	<3.2	<3.4	<3.6	<3.6	1,200	8,000	10,000
Aromatic >C8-C10	<2.9	<2.8	<4.1	<2.6	<2.8	<3.0	<2.9	65	510	65
Extractable Petroleum Hydrocarbons (EPH) by MADEP Method										
Aliphatic >C-16-C35	<2.44U	<2.44U	9.38	<2.44U	<2.44U	<2.44U	<2.44U	7,100	10,000	10,000
Aromatic >C21-C35	<2.95U	<2.95U	130	<2.95U	<2.95U	<2.95U	<2.95U	180	2,500	10,000

Notes:

Results presented in milligrams per kilogram (mg/kg)

LDEQ-RECAP = Louisiana Department of Environmental Quality-Risk Evaluation and Corrective Action Program

Bold denotes Concentration exceeds the LDEQ-RECAP Soil Non-industrial Screening Standards

U = indicates the compound analyzed but not detected, the value shown is the laboratory detection limit, J = indicates the results between MDL and LOQ

APPENDIX A

CLIENT: CSRS, Inc.

BORING NUM. SB-1

SB-1

PROJECT NO. 49-16460



LOCATION:

Germania Site

ELEVATION:

DRILLER:

ECS

DATE DRILLED:

March 2, 2022

LOGGED BY:

Bill Penick

DRILL RIG:

Hand Auger

DEPTH TO WATER:

NA

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0	0.5	SB-1-0-2			CH-MH	Dark brown SILTY CLAY with roots
					CH	Light gray CLAY
5						
10						
15						
20						
25						
30						
35						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Germania Site						BORING NUM. SB-2	
CLIENT: CSRS, Inc.						PROJECT NO. 49-16460	
LOCATION: Germania Site						ELEVATION:	
DRILLER: ECS						DATE DRILLED: March 2, 2022	LOGGED BY: Bill Penick
DRILL RIG: Hand Auger						DEPTH TO WATER: NA	
Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION	
0	0.2	SB-2-2-4			CH-MH	Dark brown SILTY CLAY with red brick pieces	
	0.2				CH	Light gray CLAY with brick pieces	
5							
10							
15							
20							
25							
30							
35							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Germania Site						BORING NUM. SB-3		
CLIENT: CSRS, Inc.						PROJECT NO. 49-16460		
LOCATION: Germania Site						ELEVATION:		
DRILLER: ECS						DATE DRILLED: March 2, 2022		LOGGED BY: Bill Penick
DRILL RIG: Hand Auger						DEPTH TO WATER: NA		
Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION		
0	0.3	SB-3-0-2			CH-MH	Brown SILTY CLAY with roots and brick pieces		
						Refusal layer of bricks		
5								
10								
15								
20								
25								
30								
35								

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Germania Site						BORING NUM. SB-4	
CLIENT: CSRS, Inc.						PROJECT NO. 49-16460	
LOCATION: Germania Site						ELEVATION:	
DRILLER: ECS						DATE DRILLED: March 2, 2022	LOGGED BY: Bill Penick
DRILL RIG: Hand Auger						DEPTH TO WATER: NA	
Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION	
0	0.2	SB-4-2-4			CH-MH	Dark brown SILTY CLAY with roots and brick pieces	
	0.2				CH	Light gray CLAY with roots and ferric stains	
5							
10							
15							
20							
25							
30							
35							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Germania Site CLIENT: CSRS, Inc.				BORING NUM. SB-5 PROJECT NO. 49-16460		
LOCATION: Germania Site				ELEVATION:		
DRILLER: ECS				DATE DRILLED: March 2, 2022 LOGGED BY: Bill Penick		
DRILL RIG: Hand Auger				DEPTH TO WATER: NA		
Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0	0.4	SB-5-0-2			CH-MH	Dark brown SILTY CLAY with brick pieces
	0.2				CH	Gray CLAY with ferric stains
5						
10						
15						
20						
25						
30						
35						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Germania Site CLIENT: CSRS, Inc.					BORING NUM. SB-6 PROJECT NO. 49-16460		
LOCATION: Germania Site					ELEVATION:		
DRILLER: ECS					DATE DRILLED: March 2, 2022 LOGGED BY: Bill Penick		
DRILL RIG: Hand Auger					DEPTH TO WATER: NA		
Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION	
0	0.5	SB-6-0-2			CH-MH	Dark brown SILTY CLAY with roots	
	0.4				CH	Gray CLAY with ferric Stains	
5							
10							
15							
20							
25							
30							
35							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Germania Site CLIENT: CSRS, Inc.					BORING NUM. SB-7 PROJECT NO. 49-16460		
LOCATION: Germania Site					ELEVATION:		
DRILLER: ECS					DATE DRILLED: March 2, 2022 LOGGED BY: Bill Penick		
DRILL RIG: ECS					DEPTH TO WATER: NA		
Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION	
0	0.2	SB-7-2-4			CH-MH	Dark brown SILTY CLAY with shells and roots	
	0.2				CH	Gray CLAY with ferric stains	
5							
10							
15							
20							
25							
30							
35							

APPENDIX B



LELAP CERTIFICATE NUMBER: 01955
DOD-ELAP ACCREDITATION NUMBER: 74960

ANALYTICAL RESULTS

PERFORMED BY

Pace Analytical Gulf Coast
7979 Innovation Park Dr.
Baton Rouge, LA 70820
(225) 769-4900

Report Date 03/14/2022

Report # 222030321



Project Germania Site, 49-16460

Samples Collected 3/2/22

<i>Deliver To</i>	<i>Additional Recipients</i>
Bill Penick ECS Southeast 11115 Industriplex Blvd. Suite 200 Baton Rouge, LA 70809 (225) 771-9629	NONE



Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with Pace Gulf Coast's Standard Operating Procedures.

Common Abbreviations that may be Utilized in this Report

ND	Indicates the result was Not Detected at the specified reporting limit
NO	Indicates the sample did not ignite when preliminary test performed for EPA Method 1030
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
RE	Re-analysis
CF	HPLC or GC Confirmation
00:01	Reported as a time equivalent to 12:00 AM

Reporting Flags that may be Utilized in this Report

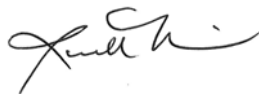
J or I	Indicates the result is between the MDL and LOQ
J	DOD flag on analyte in the parent sample for MS/MSD outside acceptance criteria
U	Indicates the compound was analyzed for but not detected
B or V	Indicates the analyte was detected in the associated Method Blank
Q	Indicates a non-compliant QC Result (See Q Flag Application Report)
*	Indicates a non-compliant or not applicable QC recovery or RPD – see narrative
E	Organics - The result is estimated because it exceeded the instrument calibration range
E	Metals - % difference for the serial dilution is > 10%
L	Reporting Limits adjusted to meet risk-based limit.
P	RPD between primary and confirmation result is greater than 40
DL	Diluted analysis – when appended to Client Sample ID

Sample receipt at Pace Gulf Coast is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of Pace Gulf Coast. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with The NELAC Institute (TNI) Standard 2009 and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.



Authorized Signature
Pace Gulf Coast Report 222030321

Certifications

Certification	Certification Number
DOD ELAP	74960
Alabama	01955
Arkansas	88-0655
Colorado	01955
Delaware	01955
Florida	E87854
Georgia	01955
Hawaii	01955
Idaho	01955
Illinois	200048
Indiana	01955
Kansas	E-10354
Kentucky	95
Louisiana	01955
Maryland	01955
Massachusetts	01955
Michigan	01955
Mississippi	01955
Missouri	01955
Montana	N/A
Nebraska	01955
New Mexico	01955
North Carolina	618
North Dakota	R-195
Oklahoma	9403
South Carolina	73006001
South Dakota	01955
Tennessee	01955
Texas	T104704178
Vermont	01955
Virginia	460215
Washington	C929
USDA Soil Permit	P330-16-00234

Case Narrative

Client: ECS Southeast, LLP **Report:** 222030321

Pace Analytical Gulf Coast received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the MADEP EPH Rev 1.1 (LA) analysis, the recovery for the surrogate, 2-Fluorobiphenyl is above the upper control limit for sample 22203032101(SB-1-0-2) . No target analytes were detected in the sample.

In the MADEP EPH Rev 1.1 (LA) analysis, the recovery for the surrogate(s) is reported as diluted out for those analyses performed at a 10 or higher dilution.

In the MADEP EPH Rev 1.1 (LA) analysis for prep batch 735281, the LCS/LCSD RPD is a above the control limit for Aromatic >C21-C35.

MISCELLANEOUS

See subcontract laboratory report case narrative.

Sample Summary

Lab ID	Client ID	Matrix	Collect Date	Receive Date
22203032101	SB-1-0-2	Solid	3/02/22 12:00	3/02/22 16:10
22203032102	SB-2-2-4	Solid	3/02/22 10:15	3/02/22 16:10
22203032103	SB-3-0-2	Solid	3/02/22 11:25	3/02/22 16:10
22203032104	SB-4-2-4	Solid	3/02/22 10:45	3/02/22 16:10
22203032105	SB-5-0-2	Solid	3/02/22 12:35	3/02/22 16:10
22203032106	SB-6-0-2	Solid	3/02/22 12:55	3/02/22 16:10
22203032107	SB-7-2-4	Solid	3/02/22 13:20	3/02/22 16:10

Detect Summary

Results and Detection Limits are adjusted for dilution and moisture when applicable

EPA 8260B						
Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22203032101	SB-1-0-2	2-Butanone	mg/kg	0.00139J	1	NA
22203032101	SB-1-0-2	Acetone	mg/kg	0.00915J	1	NA
22203032102	SB-2-2-4	Acetone	mg/kg	0.00461J	1	NA
22203032103	SB-3-0-2	2-Butanone	mg/kg	0.00479J	1	NA
22203032103	SB-3-0-2	Acetone	mg/kg	0.030	1	NA
22203032103	SB-3-0-2	Benzene	mg/kg	0.000999J	1	NA
22203032103	SB-3-0-2	Carbon disulfide	mg/kg	0.000363J	1	NA
22203032104	SB-4-2-4	Acetone	mg/kg	0.00944J	1	NA
22203032105	SB-5-0-2	Acetone	mg/kg	0.00744J	1	NA
22203032106	SB-6-0-2	Acetone	mg/kg	0.00624J	1	NA
22203032107	SB-7-2-4	Acetone	mg/kg	0.00661J	1	NA
22203032107	SB-7-2-4	Benzene	mg/kg	0.000314J	1	NA
MADEP EPH Rev 1.1 (LA) Aliph						
Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22203032103	SB-3-0-2	Aliphatic >C16-C35	mg/kg	9.38	1	NA
MADEP EPH Rev 1.1 (LA) Arom						
Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22203032103	SB-3-0-2	Aromatic >C21-C35	mg/kg	130	10	NA

Sample Results

SB-1-0-2	Collect Date	03/02/2022 12:00	Lab ID	22203032101
	Receive Date	03/02/2022 16:10	Matrix	Solid

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	03/03/22 17:15	735199	SMR	NA

CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.000194U	0.000194	0.00388	0.0460	mg/kg
71-55-6	1,1,1-Trichloroethane	0.000194U	0.000194	0.00388	4	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	0.000194U	0.000194	0.00388	0.0060	mg/kg
79-00-5	1,1,2-Trichloroethane	0.000194U	0.000194	0.00388	0.0580	mg/kg
75-34-3	1,1-Dichloroethane	0.000194U	0.000194	0.00388	7.50	mg/kg
75-35-4	1,1-Dichloroethene	0.000194U	0.000194	0.00388	0.0850	mg/kg
120-82-1	1,2,4-Trichlorobenzene	0.000388U	0.000388	0.00388	14	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	0.000388U	0.000388	0.00388	0.01	mg/kg
107-06-2	1,2-Dichloroethane	0.000194U	0.000194	0.00388	0.0350	mg/kg
78-87-5	1,2-Dichloropropane	0.000194U	0.000194	0.00388	0.0420	mg/kg
542-75-6	1,3-Dichloropropylene	0.000775U	0.000775	0.00775	0.04	mg/kg
78-93-3	2-Butanone	0.00139J	0.000388	0.00388	5	mg/kg
108-10-1	4-Methyl-2-pentanone	0.000194U	0.000194	0.00388	6.40	mg/kg
67-64-1	Acetone	0.00915J	0.000388	0.019	1.50	mg/kg
71-43-2	Benzene	0.000194U	0.000194	0.000775	0.0510	mg/kg
75-27-4	Bromodichloromethane	0.000194U	0.000194	0.00388	0.92	mg/kg
75-25-2	Bromoform	0.000388U	0.000388	0.00388	1.80	mg/kg
74-83-9	Bromomethane	0.000388U	0.000388	0.00388	0.04	mg/kg
75-15-0	Carbon disulfide	0.000194U	0.000194	0.00388	11	mg/kg
56-23-5	Carbon tetrachloride	0.000194U	0.000194	0.00388	0.11	mg/kg
108-90-7	Chlorobenzene	0.000194U	0.000194	0.00388	3	mg/kg
75-00-3	Chloroethane	0.000194U	0.000194	0.00388	0.0350	mg/kg
67-66-3	Chloroform	0.000194U	0.000194	0.00388	0.0440	mg/kg
74-87-3	Chloromethane	0.000388U	0.000388	0.00388	0.10	mg/kg
156-59-2	cis-1,2-Dichloroethene	0.000194U	0.000194	0.00388	0.49	mg/kg
124-48-1	Dibromochloromethane	0.000194U	0.000194	0.00388	1	mg/kg
100-41-4	Ethylbenzene	0.000194U	0.000194	0.00388	19	mg/kg
78-83-1	Isobutyl alcohol	0.00388U	0.00388	0.019	30	mg/kg
75-09-2	Methylene chloride	0.000775U	0.000775	0.00775	0.0170	mg/kg
100-42-5	Styrene	0.000194U	0.000194	0.00388	11	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.000194U	0.000194	0.000775	0.0770	mg/kg
127-18-4	Tetrachloroethene	0.000388U	0.000388	0.00388	0.18	mg/kg
108-88-3	Toluene	0.000194U	0.000194	0.00388	20	mg/kg
156-60-5	trans-1,2-Dichloroethene	0.000194U	0.000194	0.00388	0.77	mg/kg
79-01-6	Trichloroethene	0.000194U	0.000194	0.00388	0.0730	mg/kg
75-69-4	Trichlorofluoromethane	0.000194U	0.000194	0.00388	37	mg/kg
75-01-4	Vinyl chloride	0.000194U	0.000194	0.00388	0.0130	mg/kg
1330-20-7	Xylene (total)	0.000388U	0.000388	0.012	18	mg/kg
CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits
460-00-4	4-Bromofluorobenzene	.0388	.0351	mg/kg	91	62 - 127
1868-53-7	Dibromofluoromethane	.0388	.0403	mg/kg	104	65 - 130
2037-26-5	Toluene d8	.0388	.0395	mg/kg	102	71 - 132
17060-07-0	1,2-Dichloroethane-d4	.0388	.0428	mg/kg	110	62 - 125

MADEP EPH Rev 1.1 (LA) Aliph

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
03/07/22 13:30	735281	MADEP EPH (LA)	1	03/09/22 23:40	735644	MFS	NA

CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units
GCSV-02-11	Aliphatic >C10-C12	2.44U	2.44	6.00	230	mg/kg

Sample Results

SB-1-0-2	Collect Date	03/02/2022 12:00	Lab ID	22203032101
	Receive Date	03/02/2022 16:10	Matrix	Solid

MADEP EPH Rev 1.1 (LA) Aliph (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
03/07/22 13:30	735281	MADEP EPH (LA)	1	03/09/22 23:40	735644	MFS	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
GCSV-02-12	Aliphatic >C12-C16	2.44U	2.44	6.00	370	mg/kg	
GCSV-02-31	Aliphatic >C16-C35	2.44U	2.44	6.00	7100	mg/kg	
CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits	
3386-33-2	1-Chlorooctadecane	4	2.31	mg/kg	58	40 - 140	

MADEP EPH Rev 1.1 (LA) Arom

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
03/07/22 13:30	735281	MADEP EPH (LA)	1	03/09/22 23:40	735643	MFS	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
GCSV-05-18	Aromatic >C21-C35	2.95U	2.95	6.00	180	mg/kg	
GCSV-02-15	Unadjusted >C10-C12 Aromatics	2.95U	2.95	6.00	100	mg/kg	
GCSV-02-16	Unadjusted >C12-C16 Aromatics	2.95U	2.95	6.00	180	mg/kg	
GCSV-02-17	Unadjusted >C16-C21 Aromatics	2.95U	2.95	6.00	150	mg/kg	
CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits	
84-15-1	o-Terphenyl	4	4.3	mg/kg	108	40 - 140	
580-13-2	2-Bromonaphthalene	4	3.98	mg/kg	100	40 - 140	
321-60-8	2-Fluorobiphenyl	4	6.66	mg/kg	167*	40 - 140	

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	Subcontract Work	1	03/11/22 14:41	NA	CW	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
SHIP-001	Ship Result	*				mg/L	

SB-2-2-4	Collect Date	03/02/2022 10:15	Lab ID	22203032102
	Receive Date	03/02/2022 16:10	Matrix	Solid

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	03/03/22 17:37	735199	SMR	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
630-20-6	1,1,1,2-Tetrachloroethane	0.000192U	0.000192	0.00385	0.0460	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.000192U	0.000192	0.00385	4	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.000192U	0.000192	0.00385	0.0060	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.000192U	0.000192	0.00385	0.0580	mg/kg	
75-34-3	1,1-Dichloroethane	0.000192U	0.000192	0.00385	7.50	mg/kg	
75-35-4	1,1-Dichloroethene	0.000192U	0.000192	0.00385	0.0850	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.000385U	0.000385	0.00385	14	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.000385U	0.000385	0.00385	0.01	mg/kg	

Sample Results

SB-2-2-4	Collect Date	03/02/2022 10:15	Lab ID	22203032102
	Receive Date	03/02/2022 16:10	Matrix	Solid

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	03/03/22 17:37	735199	SMR	NA

CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units
107-06-2	1,2-Dichloroethane	0.000192U	0.000192	0.00385	0.0350	mg/kg
78-87-5	1,2-Dichloropropane	0.000192U	0.000192	0.00385	0.0420	mg/kg
542-75-6	1,3-Dichloropropylene	0.000769U	0.000769	0.00769	0.04	mg/kg
78-93-3	2-Butanone	0.000385U	0.000385	0.00385	5	mg/kg
108-10-1	4-Methyl-2-pentanone	0.000192U	0.000192	0.00385	6.40	mg/kg
67-64-1	Acetone	0.00461J	0.000385	0.019	1.50	mg/kg
71-43-2	Benzene	0.000192U	0.000192	0.000769	0.0510	mg/kg
75-27-4	Bromodichloromethane	0.000192U	0.000192	0.00385	0.92	mg/kg
75-25-2	Bromoform	0.000385U	0.000385	0.00385	1.80	mg/kg
74-83-9	Bromomethane	0.000385U	0.000385	0.00385	0.04	mg/kg
75-15-0	Carbon disulfide	0.000192U	0.000192	0.00385	11	mg/kg
56-23-5	Carbon tetrachloride	0.000192U	0.000192	0.00385	0.11	mg/kg
108-90-7	Chlorobenzene	0.000192U	0.000192	0.00385	3	mg/kg
75-00-3	Chloroethane	0.000192U	0.000192	0.00385	0.0350	mg/kg
67-66-3	Chloroform	0.000192U	0.000192	0.00385	0.0440	mg/kg
74-87-3	Chloromethane	0.000385U	0.000385	0.00385	0.10	mg/kg
156-59-2	cis-1,2-Dichloroethene	0.000192U	0.000192	0.00385	0.49	mg/kg
124-48-1	Dibromochloromethane	0.000192U	0.000192	0.00385	1	mg/kg
100-41-4	Ethylbenzene	0.000192U	0.000192	0.00385	19	mg/kg
78-83-1	Isobutyl alcohol	0.00385U	0.00385	0.019	30	mg/kg
75-09-2	Methylene chloride	0.000769U	0.000769	0.00769	0.0170	mg/kg
100-42-5	Styrene	0.000192U	0.000192	0.00385	11	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.000192U	0.000192	0.000769	0.0770	mg/kg
127-18-4	Tetrachloroethene	0.000385U	0.000385	0.00385	0.18	mg/kg
108-88-3	Toluene	0.000192U	0.000192	0.00385	20	mg/kg
156-60-5	trans-1,2-Dichloroethene	0.000192U	0.000192	0.00385	0.77	mg/kg
79-01-6	Trichloroethene	0.000192U	0.000192	0.00385	0.0730	mg/kg
75-69-4	Trichlorofluoromethane	0.000192U	0.000192	0.00385	37	mg/kg
75-01-4	Vinyl chloride	0.000192U	0.000192	0.00385	0.0130	mg/kg
1330-20-7	Xylene (total)	0.000385U	0.000385	0.012	18	mg/kg

CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits
460-00-4	4-Bromofluorobenzene	.0385	.0379	mg/kg	99	62 - 127
1868-53-7	Dibromofluoromethane	.0385	.0403	mg/kg	105	65 - 130
2037-26-5	Toluene d8	.0385	.0379	mg/kg	99	71 - 132
17060-07-0	1,2-Dichloroethane-d4	.0385	.0453	mg/kg	118	62 - 125

MADEP EPH Rev 1.1 (LA) Aliph

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
03/07/22 13:30	735281	MADEP EPH (LA)	1	03/12/22 12:03	735921	MFS	NA

CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units
GCSV-02-11	Aliphatic >C10-C12	2.44U	2.44	6.00	230	mg/kg
GCSV-02-12	Aliphatic >C12-C16	2.44U	2.44	6.00	370	mg/kg
GCSV-02-31	Aliphatic >C16-C35	2.44U	2.44	6.00	7100	mg/kg

CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits
3386-33-2	1-Chlorooctadecane	4	2.98	mg/kg	75	40 - 140

Sample Results

SB-2-2-4	Collect Date	03/02/2022 10:15	Lab ID	22203032102
	Receive Date	03/02/2022 16:10	Matrix	Solid

MADEP EPH Rev 1.1 (LA) Arom

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
03/07/22 13:30	735281	MADEP EPH (LA)	1	03/09/22 23:57	735643	MFS	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
GCSV-05-18	Aromatic >C21-C35	2.95U	2.95	6.00	180	mg/kg	
GCSV-02-15	Unadjusted >C10-C12 Aromatics	2.95U	2.95	6.00	100	mg/kg	
GCSV-02-16	Unadjusted >C12-C16 Aromatics	2.95U	2.95	6.00	180	mg/kg	
GCSV-02-17	Unadjusted >C16-C21 Aromatics	2.95U	2.95	6.00	150	mg/kg	
CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits	
84-15-1	o-Terphenyl	4	2.67	mg/kg	67	40 - 140	
580-13-2	2-Bromonaphthalene	4	3.97	mg/kg	99	40 - 140	
321-60-8	2-Fluorobiphenyl	4	4.61	mg/kg	115	40 - 140	

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	Subcontract Work	1	03/11/22 14:41	NA	CW	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
SHIP-001	Ship Result	*				mg/L	

SB-3-0-2	Collect Date	03/02/2022 11:25	Lab ID	22203032103
	Receive Date	03/02/2022 16:10	Matrix	Solid

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	03/03/22 17:59	735199	SMR	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
630-20-6	1,1,1,2-Tetrachloroethane	0.000265U	0.000265	0.00531	0.0460	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.000265U	0.000265	0.00531	4	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.000265U	0.000265	0.00531	0.0060	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.000265U	0.000265	0.00531	0.0580	mg/kg	
75-34-3	1,1-Dichloroethane	0.000265U	0.000265	0.00531	7.50	mg/kg	
75-35-4	1,1-Dichloroethene	0.000265U	0.000265	0.00531	0.0850	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.000531U	0.000531	0.00531	14	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.000531U	0.000531	0.00531	0.01	mg/kg	
107-06-2	1,2-Dichloroethane	0.000265U	0.000265	0.00531	0.0350	mg/kg	
78-87-5	1,2-Dichloropropane	0.000265U	0.000265	0.00531	0.0420	mg/kg	
542-75-6	1,3-Dichloropropylene	0.00106U	0.00106	0.011	0.04	mg/kg	
78-93-3	2-Butanone	0.00479J	0.000531	0.00531	5	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.000265U	0.000265	0.00531	6.40	mg/kg	
67-64-1	Acetone	0.030	0.000531	0.027	1.50	mg/kg	
71-43-2	Benzene	0.000999J	0.000265	0.00106	0.0510	mg/kg	
75-27-4	Bromodichloromethane	0.000265U	0.000265	0.00531	0.92	mg/kg	
75-25-2	Bromoform	0.000531U	0.000531	0.00531	1.80	mg/kg	
74-83-9	Bromomethane	0.000531U	0.000531	0.00531	0.04	mg/kg	
75-15-0	Carbon disulfide	0.000363J	0.000265	0.00531	11	mg/kg	
56-23-5	Carbon tetrachloride	0.000265U	0.000265	0.00531	0.11	mg/kg	
108-90-7	Chlorobenzene	0.000265U	0.000265	0.00531	3	mg/kg	

Sample Results

SB-3-0-2	Collect Date	03/02/2022 11:25	Lab ID	22203032103
	Receive Date	03/02/2022 16:10	Matrix	Solid

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	03/03/22 17:59	735199	SMR	NA

CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units
75-00-3	Chloroethane	0.000265U	0.000265	0.00531	0.0350	mg/kg
67-66-3	Chloroform	0.000265U	0.000265	0.00531	0.0440	mg/kg
74-87-3	Chloromethane	0.000531U	0.000531	0.00531	0.10	mg/kg
156-59-2	cis-1,2-Dichloroethene	0.000265U	0.000265	0.00531	0.49	mg/kg
124-48-1	Dibromochloromethane	0.000265U	0.000265	0.00531	1	mg/kg
100-41-4	Ethylbenzene	0.000265U	0.000265	0.00531	19	mg/kg
78-83-1	Isobutyl alcohol	0.00531U	0.00531	0.027	30	mg/kg
75-09-2	Methylene chloride	0.00106U	0.00106	0.011	0.0170	mg/kg
100-42-5	Styrene	0.000265U	0.000265	0.00531	11	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.000265U	0.000265	0.00106	0.0770	mg/kg
127-18-4	Tetrachloroethene	0.000531U	0.000531	0.00531	0.18	mg/kg
108-88-3	Toluene	0.000265U	0.000265	0.00531	20	mg/kg
156-60-5	trans-1,2-Dichloroethene	0.000265U	0.000265	0.00531	0.77	mg/kg
79-01-6	Trichloroethene	0.000265U	0.000265	0.00531	0.0730	mg/kg
75-69-4	Trichlorofluoromethane	0.000265U	0.000265	0.00531	37	mg/kg
75-01-4	Vinyl chloride	0.000265U	0.000265	0.00531	0.0130	mg/kg
1330-20-7	Xylene (total)	0.000531U	0.000531	0.016	18	mg/kg

CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits
460-00-4	4-Bromofluorobenzene	.0531	.0505	mg/kg	95	62 - 127
1868-53-7	Dibromofluoromethane	.0531	.0539	mg/kg	102	65 - 130
2037-26-5	Toluene d8	.0531	.0526	mg/kg	99	71 - 132
17060-07-0	1,2-Dichloroethane-d4	.0531	.0604	mg/kg	114	62 - 125

MADEP EPH Rev 1.1 (LA) Aliph

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
03/07/22 13:30	735281	MADEP EPH (LA)	1	03/12/22 12:21	735921	MFS	NA

CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units
GCSV-02-11	Aliphatic >C10-C12	2.44U	2.44	6.00	230	mg/kg
GCSV-02-12	Aliphatic >C12-C16	2.44U	2.44	6.00	370	mg/kg
GCSV-02-31	Aliphatic >C16-C35	9.38	2.44	6.00	7100	mg/kg

CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits
3386-33-2	1-Chlorooctadecane	4	2.59	mg/kg	65	40 - 140

MADEP EPH Rev 1.1 (LA) Arom

*Results And limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
03/07/22 13:30	735281	MADEP EPH (LA)	10	03/10/22 00:15	735643	MFS	NA

CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units
GCSV-05-18	Aromatic >C21-C35	130	29.5	60.0	180	mg/kg
GCSV-02-15	Unadjusted >C10-C12 Aromatics	29.5U	29.5	60.0	100	mg/kg
GCSV-02-16	Unadjusted >C12-C16 Aromatics	29.5U	29.5	60.0	180	mg/kg

Sample Results

SB-3-0-2	Collect Date	03/02/2022 11:25	Lab ID	22203032103
	Receive Date	03/02/2022 16:10	Matrix	Solid

MADEP EPH Rev 1.1 (LA) Arom (Continued)

*Results And limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
03/07/22 13:30	735281	MADEP EPH (LA)	10	03/10/22 00:15	735643	MFS	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
GCSV-02-17	Unadjusted >C16-C21 Aromatics	29.5U	29.5	60.0	150	mg/kg	
CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits	
84-15-1	o-Terphenyl	4	Diluted Out	mg/kg	0*	40 - 140	
580-13-2	2-Bromonaphthalene	4	Diluted Out	mg/kg	0*	40 - 140	
321-60-8	2-Fluorobiphenyl	4	Diluted Out	mg/kg	0*	40 - 140	

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	Subcontract Work	1	03/11/22 14:41	NA	CW	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
SHIP-001	Ship Result	*				mg/L	

SB-4-2-4	Collect Date	03/02/2022 10:45	Lab ID	22203032104
	Receive Date	03/02/2022 16:10	Matrix	Solid

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	03/03/22 18:21	735199	SMR	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
630-20-6	1,1,1,2-Tetrachloroethane	0.000200U	0.000200	0.00400	0.0460	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.000200U	0.000200	0.00400	4	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.000200U	0.000200	0.00400	0.0060	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.000200U	0.000200	0.00400	0.0580	mg/kg	
75-34-3	1,1-Dichloroethane	0.000200U	0.000200	0.00400	7.50	mg/kg	
75-35-4	1,1-Dichloroethene	0.000200U	0.000200	0.00400	0.0850	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.000400U	0.000400	0.00400	14	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.000400U	0.000400	0.00400	0.01	mg/kg	
107-06-2	1,2-Dichloroethane	0.000200U	0.000200	0.00400	0.0350	mg/kg	
78-87-5	1,2-Dichloropropane	0.000200U	0.000200	0.00400	0.0420	mg/kg	
542-75-6	1,3-Dichloropropylene	0.000800U	0.000800	0.00800	0.04	mg/kg	
78-93-3	2-Butanone	0.000400U	0.000400	0.00400	5	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.000200U	0.000200	0.00400	6.40	mg/kg	
67-64-1	Acetone	0.00944J	0.000400	0.020	1.50	mg/kg	
71-43-2	Benzene	0.000200U	0.000200	0.000800	0.0510	mg/kg	
75-27-4	Bromodichloromethane	0.000200U	0.000200	0.00400	0.92	mg/kg	
75-25-2	Bromoform	0.000400U	0.000400	0.00400	1.80	mg/kg	
74-83-9	Bromomethane	0.000400U	0.000400	0.00400	0.04	mg/kg	
75-15-0	Carbon disulfide	0.000200U	0.000200	0.00400	11	mg/kg	
56-23-5	Carbon tetrachloride	0.000200U	0.000200	0.00400	0.11	mg/kg	
108-90-7	Chlorobenzene	0.000200U	0.000200	0.00400	3	mg/kg	
75-00-3	Chloroethane	0.000200U	0.000200	0.00400	0.0350	mg/kg	
67-66-3	Chloroform	0.000200U	0.000200	0.00400	0.0440	mg/kg	
74-87-3	Chloromethane	0.000400U	0.000400	0.00400	0.10	mg/kg	

Sample Results

SB-4-2-4	Collect Date	03/02/2022 10:45	Lab ID	22203032104
	Receive Date	03/02/2022 16:10	Matrix	Solid

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	03/03/22 18:21	735199	SMR	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
156-59-2	cis-1,2-Dichloroethene	0.000200U	0.000200	0.00400	0.49	mg/kg	
124-48-1	Dibromochloromethane	0.000200U	0.000200	0.00400	1	mg/kg	
100-41-4	Ethylbenzene	0.000200U	0.000200	0.00400	19	mg/kg	
78-83-1	Isobutyl alcohol	0.00400U	0.00400	0.020	30	mg/kg	
75-09-2	Methylene chloride	0.000800U	0.000800	0.00800	0.0170	mg/kg	
100-42-5	Styrene	0.000200U	0.000200	0.00400	11	mg/kg	
1634-04-4	tert-Butyl methyl ether (MTBE)	0.000200U	0.000200	0.000800	0.0770	mg/kg	
127-18-4	Tetrachloroethene	0.000400U	0.000400	0.00400	0.18	mg/kg	
108-88-3	Toluene	0.000200U	0.000200	0.00400	20	mg/kg	
156-60-5	trans-1,2-Dichloroethene	0.000200U	0.000200	0.00400	0.77	mg/kg	
79-01-6	Trichloroethene	0.000200U	0.000200	0.00400	0.0730	mg/kg	
75-69-4	Trichlorofluoromethane	0.000200U	0.000200	0.00400	37	mg/kg	
75-01-4	Vinyl chloride	0.000200U	0.000200	0.00400	0.0130	mg/kg	
1330-20-7	Xylene (total)	0.000400U	0.000400	0.012	18	mg/kg	
CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits	
460-00-4	4-Bromofluorobenzene	.04	.0385	mg/kg	96	62 - 127	
1868-53-7	Dibromofluoromethane	.04	.0413	mg/kg	103	65 - 130	
2037-26-5	Toluene d8	.04	.0383	mg/kg	96	71 - 132	
17060-07-0	1,2-Dichloroethane-d4	.04	.0475	mg/kg	119	62 - 125	

MADEP EPH Rev 1.1 (LA) Aliph

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
03/07/22 13:30	735281	MADEP EPH (LA)	1	03/10/22 00:49	735644	MFS	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
GCSV-02-11	Aliphatic >C10-C12	2.44U	2.44	6.00	230	mg/kg	
GCSV-02-12	Aliphatic >C12-C16	2.44U	2.44	6.00	370	mg/kg	
GCSV-02-31	Aliphatic >C16-C35	2.44U	2.44	6.00	7100	mg/kg	
CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits	
3386-33-2	1-Chlorooctadecane	4	3.96	mg/kg	99	40 - 140	

MADEP EPH Rev 1.1 (LA) Arom

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
03/07/22 13:30	735281	MADEP EPH (LA)	1	03/10/22 00:29	735643	MFS	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
GCSV-05-18	Aromatic >C21-C35	2.95U	2.95	6.00	180	mg/kg	
GCSV-02-15	Unadjusted >C10-C12 Aromatics	2.95U	2.95	6.00	100	mg/kg	
GCSV-02-16	Unadjusted >C12-C16 Aromatics	2.95U	2.95	6.00	180	mg/kg	
GCSV-02-17	Unadjusted >C16-C21 Aromatics	2.95U	2.95	6.00	150	mg/kg	
CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits	
84-15-1	o-Terphenyl	4	3.13	mg/kg	78	40 - 140	
580-13-2	2-Bromonaphthalene	4	1.6	mg/kg	40	40 - 140	
321-60-8	2-Fluorobiphenyl	4	4.24	mg/kg	106	40 - 140	

Sample Results

SB-4-2-4	Collect Date	03/02/2022 10:45	Lab ID	22203032104
	Receive Date	03/02/2022 16:10	Matrix	Solid

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	Subcontract Work	1	03/11/22 14:41	NA	CW	NA

CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units
SHIP-001	Ship Result	*				mg/L

SB-5-0-2	Collect Date	03/02/2022 12:35	Lab ID	22203032105
	Receive Date	03/02/2022 16:10	Matrix	Solid

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	03/03/22 18:43	735199	SMR	NA

CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.000214U	0.000214	0.00427	0.0460	mg/kg
71-55-6	1,1,1-Trichloroethane	0.000214U	0.000214	0.00427	4	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	0.000214U	0.000214	0.00427	0.0060	mg/kg
79-00-5	1,1,2-Trichloroethane	0.000214U	0.000214	0.00427	0.0580	mg/kg
75-34-3	1,1-Dichloroethane	0.000214U	0.000214	0.00427	7.50	mg/kg
75-35-4	1,1-Dichloroethene	0.000214U	0.000214	0.00427	0.0850	mg/kg
120-82-1	1,2,4-Trichlorobenzene	0.000427U	0.000427	0.00427	14	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	0.000427U	0.000427	0.00427	0.01	mg/kg
107-06-2	1,2-Dichloroethane	0.000214U	0.000214	0.00427	0.0350	mg/kg
78-87-5	1,2-Dichloropropane	0.000214U	0.000214	0.00427	0.0420	mg/kg
542-75-6	1,3-Dichloropropylene	0.000855U	0.000855	0.00855	0.04	mg/kg
78-93-3	2-Butanone	0.000427U	0.000427	0.00427	5	mg/kg
108-10-1	4-Methyl-2-pentanone	0.000214U	0.000214	0.00427	6.40	mg/kg
67-64-1	Acetone	0.00744J	0.000427	0.021	1.50	mg/kg
71-43-2	Benzene	0.000214U	0.000214	0.000855	0.0510	mg/kg
75-27-4	Bromodichloromethane	0.000214U	0.000214	0.00427	0.92	mg/kg
75-25-2	Bromoform	0.000427U	0.000427	0.00427	1.80	mg/kg
74-83-9	Bromomethane	0.000427U	0.000427	0.00427	0.04	mg/kg
75-15-0	Carbon disulfide	0.000214U	0.000214	0.00427	11	mg/kg
56-23-5	Carbon tetrachloride	0.000214U	0.000214	0.00427	0.11	mg/kg
108-90-7	Chlorobenzene	0.000214U	0.000214	0.00427	3	mg/kg
75-00-3	Chloroethane	0.000214U	0.000214	0.00427	0.0350	mg/kg
67-66-3	Chloroform	0.000214U	0.000214	0.00427	0.0440	mg/kg
74-87-3	Chloromethane	0.000427U	0.000427	0.00427	0.10	mg/kg
156-59-2	cis-1,2-Dichloroethene	0.000214U	0.000214	0.00427	0.49	mg/kg
124-48-1	Dibromochloromethane	0.000214U	0.000214	0.00427	1	mg/kg
100-41-4	Ethylbenzene	0.000214U	0.000214	0.00427	19	mg/kg
78-83-1	Isobutyl alcohol	0.00427U	0.00427	0.021	30	mg/kg
75-09-2	Methylene chloride	0.000855U	0.000855	0.00855	0.0170	mg/kg
100-42-5	Styrene	0.000214U	0.000214	0.00427	11	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.000214U	0.000214	0.000855	0.0770	mg/kg
127-18-4	Tetrachloroethene	0.000427U	0.000427	0.00427	0.18	mg/kg
108-88-3	Toluene	0.000214U	0.000214	0.00427	20	mg/kg
156-60-5	trans-1,2-Dichloroethene	0.000214U	0.000214	0.00427	0.77	mg/kg
79-01-6	Trichloroethene	0.000214U	0.000214	0.00427	0.0730	mg/kg
75-69-4	Trichlorofluoromethane	0.000214U	0.000214	0.00427	37	mg/kg
75-01-4	Vinyl chloride	0.000214U	0.000214	0.00427	0.0130	mg/kg

Sample Results

SB-5-0-2	Collect Date	03/02/2022 12:35	Lab ID	22203032105
	Receive Date	03/02/2022 16:10	Matrix	Solid

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	03/03/22 18:43	735199	SMR	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
1330-20-7	Xylene (total)	0.000427U	0.000427	0.013	18	mg/kg	
CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits	
460-00-4	4-Bromofluorobenzene	.0427	.0408	mg/kg	95	62 - 127	
1868-53-7	Dibromofluoromethane	.0427	.0457	mg/kg	107	65 - 130	
2037-26-5	Toluene d8	.0427	.041	mg/kg	96	71 - 132	
17060-07-0	1,2-Dichloroethane-d4	.0427	.051	mg/kg	119	62 - 125	

MADEP EPH Rev 1.1 (LA) Aliph

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
03/07/22 13:30	735281	MADEP EPH (LA)	1	03/10/22 01:08	735644	MFS	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
GCSV-02-11	Aliphatic >C10-C12	2.44U	2.44	6.00	230	mg/kg	
GCSV-02-12	Aliphatic >C12-C16	2.44U	2.44	6.00	370	mg/kg	
GCSV-02-31	Aliphatic >C16-C35	2.44U	2.44	6.00	7100	mg/kg	
CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits	
3386-33-2	1-Chlorooctadecane	4	1.88	mg/kg	47	40 - 140	

MADEP EPH Rev 1.1 (LA) Arom

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
03/07/22 13:30	735281	MADEP EPH (LA)	1	03/10/22 00:49	735643	MFS	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
GCSV-05-18	Aromatic >C21-C35	2.95U	2.95	6.00	180	mg/kg	
GCSV-02-15	Unadjusted >C10-C12 Aromatics	2.95U	2.95	6.00	100	mg/kg	
GCSV-02-16	Unadjusted >C12-C16 Aromatics	2.95U	2.95	6.00	180	mg/kg	
GCSV-02-17	Unadjusted >C16-C21 Aromatics	2.95U	2.95	6.00	150	mg/kg	
CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits	
84-15-1	o-Terphenyl	4	2.33	mg/kg	58	40 - 140	
580-13-2	2-Bromonaphthalene	4	3.21	mg/kg	80	40 - 140	
321-60-8	2-Fluorobiphenyl	4	3.33	mg/kg	83	40 - 140	

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	Subcontract Work	1	03/11/22 14:41	NA	CW	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
SHIP-001	Ship Result	*				mg/L	

Sample Results

SB-6-0-2	Collect Date	03/02/2022 12:55	Lab ID	22203032106
	Receive Date	03/02/2022 16:10	Matrix	Solid

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	03/03/22 19:06	735199	SMR	NA

CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.000217U	0.000217	0.00435	0.0460	mg/kg
71-55-6	1,1,1-Trichloroethane	0.000217U	0.000217	0.00435	4	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	0.000217U	0.000217	0.00435	0.0060	mg/kg
79-00-5	1,1,2-Trichloroethane	0.000217U	0.000217	0.00435	0.0580	mg/kg
75-34-3	1,1-Dichloroethane	0.000217U	0.000217	0.00435	7.50	mg/kg
75-35-4	1,1-Dichloroethene	0.000217U	0.000217	0.00435	0.0850	mg/kg
120-82-1	1,2,4-Trichlorobenzene	0.000435U	0.000435	0.00435	14	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	0.000435U	0.000435	0.00435	0.01	mg/kg
107-06-2	1,2-Dichloroethane	0.000217U	0.000217	0.00435	0.0350	mg/kg
78-87-5	1,2-Dichloropropane	0.000217U	0.000217	0.00435	0.0420	mg/kg
542-75-6	1,3-Dichloropropylene	0.000870U	0.000870	0.00870	0.04	mg/kg
78-93-3	2-Butanone	0.000435U	0.000435	0.00435	5	mg/kg
108-10-1	4-Methyl-2-pentanone	0.000217U	0.000217	0.00435	6.40	mg/kg
67-64-1	Acetone	0.00624J	0.000435	0.022	1.50	mg/kg
71-43-2	Benzene	0.000217U	0.000217	0.000870	0.0510	mg/kg
75-27-4	Bromodichloromethane	0.000217U	0.000217	0.00435	0.92	mg/kg
75-25-2	Bromoform	0.000435U	0.000435	0.00435	1.80	mg/kg
74-83-9	Bromomethane	0.000435U	0.000435	0.00435	0.04	mg/kg
75-15-0	Carbon disulfide	0.000217U	0.000217	0.00435	11	mg/kg
56-23-5	Carbon tetrachloride	0.000217U	0.000217	0.00435	0.11	mg/kg
108-90-7	Chlorobenzene	0.000217U	0.000217	0.00435	3	mg/kg
75-00-3	Chloroethane	0.000217U	0.000217	0.00435	0.0350	mg/kg
67-66-3	Chloroform	0.000217U	0.000217	0.00435	0.0440	mg/kg
74-87-3	Chloromethane	0.000435U	0.000435	0.00435	0.10	mg/kg
156-59-2	cis-1,2-Dichloroethene	0.000217U	0.000217	0.00435	0.49	mg/kg
124-48-1	Dibromochloromethane	0.000217U	0.000217	0.00435	1	mg/kg
100-41-4	Ethylbenzene	0.000217U	0.000217	0.00435	19	mg/kg
78-83-1	Isobutyl alcohol	0.00435U	0.00435	0.022	30	mg/kg
75-09-2	Methylene chloride	0.000870U	0.000870	0.00870	0.0170	mg/kg
100-42-5	Styrene	0.000217U	0.000217	0.00435	11	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.000217U	0.000217	0.000870	0.0770	mg/kg
127-18-4	Tetrachloroethene	0.000435U	0.000435	0.00435	0.18	mg/kg
108-88-3	Toluene	0.000217U	0.000217	0.00435	20	mg/kg
156-60-5	trans-1,2-Dichloroethene	0.000217U	0.000217	0.00435	0.77	mg/kg
79-01-6	Trichloroethene	0.000217U	0.000217	0.00435	0.0730	mg/kg
75-69-4	Trichlorofluoromethane	0.000217U	0.000217	0.00435	37	mg/kg
75-01-4	Vinyl chloride	0.000217U	0.000217	0.00435	0.0130	mg/kg
1330-20-7	Xylene (total)	0.000435U	0.000435	0.013	18	mg/kg
CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits
460-00-4	4-Bromofluorobenzene	.0435	.0422	mg/kg	97	62 - 127
1868-53-7	Dibromofluoromethane	.0435	.0456	mg/kg	105	65 - 130
2037-26-5	Toluene d8	.0435	.0415	mg/kg	95	71 - 132
17060-07-0	1,2-Dichloroethane-d4	.0435	.0529	mg/kg	122	62 - 125

MADEP EPH Rev 1.1 (LA) Aliph

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
03/07/22 13:30	735281	MADEP EPH (LA)	1	03/10/22 01:27	735644	MFS	NA

CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units
GCSV-02-11	Aliphatic >C10-C12	2.44U	2.44	6.00	230	mg/kg

Sample Results

SB-6-0-2	Collect Date	03/02/2022 12:55	Lab ID	22203032106
	Receive Date	03/02/2022 16:10	Matrix	Solid

MADEP EPH Rev 1.1 (LA) Aliph (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
03/07/22 13:30	735281	MADEP EPH (LA)	1	03/10/22 01:27	735644	MFS	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
GCSV-02-12	Aliphatic >C12-C16	2.44U	2.44	6.00	370	mg/kg	
GCSV-02-31	Aliphatic >C16-C35	2.44U	2.44	6.00	7100	mg/kg	
CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits	
3386-33-2	1-Chlorooctadecane	4	1.62	mg/kg	41	40 - 140	

MADEP EPH Rev 1.1 (LA) Arom

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
03/07/22 13:30	735281	MADEP EPH (LA)	1	03/10/22 01:08	735643	MFS	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
GCSV-05-18	Aromatic >C21-C35	2.95U	2.95	6.00	180	mg/kg	
GCSV-02-15	Unadjusted >C10-C12 Aromatics	2.95U	2.95	6.00	100	mg/kg	
GCSV-02-16	Unadjusted >C12-C16 Aromatics	2.95U	2.95	6.00	180	mg/kg	
GCSV-02-17	Unadjusted >C16-C21 Aromatics	2.95U	2.95	6.00	150	mg/kg	
CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits	
84-15-1	o-Terphenyl	4	2.03	mg/kg	51	40 - 140	
580-13-2	2-Bromonaphthalene	4	2.74	mg/kg	69	40 - 140	
321-60-8	2-Fluorobiphenyl	4	2.9	mg/kg	73	40 - 140	

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	Subcontract Work	1	03/11/22 14:41	NA	CW	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
SHIP-001	Ship Result	*				mg/L	

SB-7-2-4	Collect Date	03/02/2022 13:20	Lab ID	22203032107
	Receive Date	03/02/2022 16:10	Matrix	Solid

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	03/03/22 19:28	735199	SMR	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
630-20-6	1,1,1,2-Tetrachloroethane	0.000201U	0.000201	0.00401	0.0460	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.000201U	0.000201	0.00401	4	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.000201U	0.000201	0.00401	0.0060	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.000201U	0.000201	0.00401	0.0580	mg/kg	
75-34-3	1,1-Dichloroethane	0.000201U	0.000201	0.00401	7.50	mg/kg	
75-35-4	1,1-Dichloroethene	0.000201U	0.000201	0.00401	0.0850	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.000401U	0.000401	0.00401	14	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.000401U	0.000401	0.00401	0.01	mg/kg	

Sample Results

SB-7-2-4	Collect Date	03/02/2022 13:20	Lab ID	22203032107
	Receive Date	03/02/2022 16:10	Matrix	Solid

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	03/03/22 19:28	735199	SMR	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
107-06-2	1,2-Dichloroethane	0.000201U	0.000201	0.00401	0.0350	mg/kg	
78-87-5	1,2-Dichloropropane	0.000201U	0.000201	0.00401	0.0420	mg/kg	
542-75-6	1,3-Dichloropropylene	0.000803U	0.000803	0.00803	0.04	mg/kg	
78-93-3	2-Butanone	0.000401U	0.000401	0.00401	5	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.000201U	0.000201	0.00401	6.40	mg/kg	
67-64-1	Acetone	0.00661J	0.000401	0.020	1.50	mg/kg	
71-43-2	Benzene	0.000314J	0.000201	0.000803	0.0510	mg/kg	
75-27-4	Bromodichloromethane	0.000201U	0.000201	0.00401	0.92	mg/kg	
75-25-2	Bromoform	0.000401U	0.000401	0.00401	1.80	mg/kg	
74-83-9	Bromomethane	0.000401U	0.000401	0.00401	0.04	mg/kg	
75-15-0	Carbon disulfide	0.000201U	0.000201	0.00401	11	mg/kg	
56-23-5	Carbon tetrachloride	0.000201U	0.000201	0.00401	0.11	mg/kg	
108-90-7	Chlorobenzene	0.000201U	0.000201	0.00401	3	mg/kg	
75-00-3	Chloroethane	0.000201U	0.000201	0.00401	0.0350	mg/kg	
67-66-3	Chloroform	0.000201U	0.000201	0.00401	0.0440	mg/kg	
74-87-3	Chloromethane	0.000401U	0.000401	0.00401	0.10	mg/kg	
156-59-2	cis-1,2-Dichloroethene	0.000201U	0.000201	0.00401	0.49	mg/kg	
124-48-1	Dibromochloromethane	0.000201U	0.000201	0.00401	1	mg/kg	
100-41-4	Ethylbenzene	0.000201U	0.000201	0.00401	19	mg/kg	
78-83-1	Isobutyl alcohol	0.00401U	0.00401	0.020	30	mg/kg	
75-09-2	Methylene chloride	0.000803U	0.000803	0.00803	0.0170	mg/kg	
100-42-5	Styrene	0.000201U	0.000201	0.00401	11	mg/kg	
1634-04-4	tert-Butyl methyl ether (MTBE)	0.000201U	0.000201	0.000803	0.0770	mg/kg	
127-18-4	Tetrachloroethene	0.000401U	0.000401	0.00401	0.18	mg/kg	
108-88-3	Toluene	0.000201U	0.000201	0.00401	20	mg/kg	
156-60-5	trans-1,2-Dichloroethene	0.000201U	0.000201	0.00401	0.77	mg/kg	
79-01-6	Trichloroethene	0.000201U	0.000201	0.00401	0.0730	mg/kg	
75-69-4	Trichlorofluoromethane	0.000201U	0.000201	0.00401	37	mg/kg	
75-01-4	Vinyl chloride	0.000201U	0.000201	0.00401	0.0130	mg/kg	
1330-20-7	Xylene (total)	0.000401U	0.000401	0.012	18	mg/kg	
CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits	
460-00-4	4-Bromofluorobenzene	.0401	.0391	mg/kg	97	62 - 127	
1868-53-7	Dibromofluoromethane	.0401	.0408	mg/kg	102	65 - 130	
2037-26-5	Toluene d8	.0401	.0389	mg/kg	97	71 - 132	
17060-07-0	1,2-Dichloroethane-d4	.0401	.049	mg/kg	122	62 - 125	

MADEP EPH Rev 1.1 (LA) Aliph

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
03/07/22 13:30	735281	MADEP EPH (LA)	1	03/10/22 01:44	735644	MFS	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
GCSV-02-11	Aliphatic >C10-C12	2.44U	2.44	6.00	230	mg/kg	
GCSV-02-12	Aliphatic >C12-C16	2.44U	2.44	6.00	370	mg/kg	
GCSV-02-31	Aliphatic >C16-C35	2.44U	2.44	6.00	7100	mg/kg	
CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits	
3386-33-2	1-Chlorooctadecane	4	3.16	mg/kg	79	40 - 140	

Sample Results

SB-7-2-4	Collect Date	03/02/2022 13:20	Lab ID	22203032107
	Receive Date	03/02/2022 16:10	Matrix	Solid

MADEP EPH Rev 1.1 (LA) Arom

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
03/07/22 13:30	735281	MADEP EPH (LA)	1	03/10/22 01:27	735643	MFS	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
GCSV-05-18	Aromatic >C21-C35	2.95U	2.95	6.00	180	mg/kg	
GCSV-02-15	Unadjusted >C10-C12 Aromatics	2.95U	2.95	6.00	100	mg/kg	
GCSV-02-16	Unadjusted >C12-C16 Aromatics	2.95U	2.95	6.00	180	mg/kg	
GCSV-02-17	Unadjusted >C16-C21 Aromatics	2.95U	2.95	6.00	150	mg/kg	
CAS#	Surrogate	Conc Spiked	Conc Rec	Units	%Recovery	%Rec Limits	
84-15-1	o-Terphenyl	4	1.81	mg/kg	45	40 - 140	
580-13-2	2-Bromonaphthalene	4	2.28	mg/kg	57	40 - 140	
321-60-8	2-Fluorobiphenyl	4	2.4	mg/kg	60	40 - 140	

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	Subcontract Work	1	03/11/22 14:41	NA	CW	NA
CAS#	Parameter	Result	DL	LOQ	Reg Limit	Units	
SHIP-001	Ship Result	*				mg/L	

GC/MS Volatiles QC Summary

Analytical Batch 735199		Client ID Lab ID Sample Type Prep Date Analysis Date Matrix	MB735199 2314763 MB NA 03/03/22 13:50 Solid	LCS735199 2314764 LCS NA 03/03/22 12:00 Solid				LCSD735199 2314765 LCSD NA 03/03/22 12:22 Solid				
EPA 8260B		Units Result	mg/kg DL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	630-20-6	0.000250U	0.000250	0.050	0.050	101	77 - 122	0.050	0.048	95	4	30
1,1,1-Trichloroethane	71-55-6	0.000250U	0.000250	0.050	0.051	101	70 - 130	0.050	0.046	91	10	30
1,1,2,2-Tetrachloroethane	79-34-5	0.000250U	0.000250	0.050	0.046	92	66 - 129	0.050	0.043	86	7	30
1,1,2-Trichloroethane	79-00-5	0.000250U	0.000250	0.050	0.049	98	74 - 120	0.050	0.045	90	9	30
1,1-Dichloroethane	75-34-3	0.000250U	0.000250	0.050	0.048	95	71 - 126	0.050	0.044	89	9	30
1,1-Dichloroethene	75-35-4	0.000250U	0.000250	0.050	0.050	99	68 - 129	0.050	0.044	89	13	20
1,2,4-Trichlorobenzene	120-82-1	0.000500U	0.000500	0.050	0.054	108	64 - 135	0.050	0.050	99	8	30
1,2-Dibromo-3-chloropropane	96-12-8	0.000500U	0.000500	0.050	0.049	98	60 - 123	0.050	0.048	96	2	30
1,2-Dichloroethane	107-06-2	0.000250U	0.000250	0.050	0.047	94	68 - 126	0.050	0.044	87	7	30
1,2-Dichloropropane	78-87-5	0.000250U	0.000250	0.050	0.049	97	72 - 129	0.050	0.044	88	11	30
1,3-Dichloropropylene	542-75-6	0.00100U	0.00100	0.100	0.099	99	73 - 128	0.100	0.091	91	8	30
2-Butanone	78-93-3	0.000500U	0.000500	0.250	0.239	96	47 - 142	0.250	0.221	88	8	30
4-Methyl-2-pentanone	108-10-1	0.000250U	0.000250	0.250	0.244	98	52 - 136	0.250	0.231	92	5	30
Acetone	67-64-1	0.000500U	0.000500	0.250	0.207	83	38 - 152	0.250	0.214	86	3	30
Benzene	71-43-2	0.000250U	0.000250	0.050	0.049	99	73 - 128	0.050	0.045	90	9	20
Bromodichloromethane	75-27-4	0.000250U	0.000250	0.050	0.048	96	74 - 126	0.050	0.044	88	9	30
Bromoform	75-25-2	0.000500U	0.000500	0.050	0.053	106	67 - 122	0.050	0.050	99	6	30
Bromomethane	74-83-9	0.000500U	0.000500	0.050	0.056	113	48 - 139	0.050	0.050	99	11	30
Carbon disulfide	75-15-0	0.000250U	0.000250	0.050	0.048	96	68 - 133	0.050	0.045	90	6	30
Carbon tetrachloride	56-23-5	0.000250U	0.000250	0.050	0.049	99	71 - 133	0.050	0.045	91	9	30
Chlorobenzene	108-90-7	0.000250U	0.000250	0.050	0.050	100	75 - 121	0.050	0.047	94	6	20
Chloroethane	75-00-3	0.000250U	0.000250	0.050	0.048	95	57 - 144	0.050	0.044	88	9	30
Chloroform	67-66-3	0.000250U	0.000250	0.050	0.049	98	74 - 124	0.050	0.045	90	9	30
Chloromethane	74-87-3	0.000500U	0.000500	0.050	0.056	112	61 - 130	0.050	0.051	102	9	30
cis-1,2-Dichloroethene	156-59-2	0.000250U	0.000250	0.050	0.049	98	72 - 130	0.050	0.045	90	9	30
Dibromochloromethane	124-48-1	0.000250U	0.000250	0.050	0.049	98	74 - 122	0.050	0.047	93	4	30
Ethylbenzene	100-41-4	0.000250U	0.000250	0.050	0.050	101	74 - 130	0.050	0.047	93	6	30
Isobutyl alcohol	78-83-1	0.00500U	0.00500	0.250	0.229	92	50 - 150	0.250	0.187	75	20	30
Methylene chloride	75-09-2	0.00100U	0.00100	0.050	0.047	94	66 - 130	0.050	0.045	91	4	30
Styrene	100-42-5	0.000250U	0.000250	0.050	0.052	105	72 - 128	0.050	0.049	97	6	30
tert-Butyl methyl ether (MTBE)	1634-04-4	0.000250U	0.000250	0.050	0.045	90	69 - 126	0.050	0.045	89	0	30
Tetrachloroethene	127-18-4	0.000500U	0.000500	0.050	0.052	104	70 - 127	0.050	0.048	95	8	30
Toluene	108-88-3	0.000250U	0.000250	0.050	0.050	100	74 - 121	0.050	0.046	92	8	20
trans-1,2-Dichloroethene	156-60-5	0.000250U	0.000250	0.050	0.045	90	67 - 134	0.050	0.045	89	0	30
Trichloroethene	79-01-6	0.000250U	0.000250	0.050	0.050	100	78 - 127	0.050	0.046	92	8	20
Trichlorofluoromethane	75-69-4	0.000250U	0.000250	0.050	0.046	93	64 - 141	0.050	0.047	94	2	30
Vinyl chloride	75-01-4	0.000250U	0.000250	0.050	0.055	110	67 - 131	0.050	0.049	98	12	30
Xylene (total)	1330-20-7	0.000500U	0.000500	0.150	0.155	103	71 - 129	0.150	0.143	95	8	30
Surrogate	CAS#	Rec	%R	Added	Rec	%R	Limits	Added	Rec	%	RPD	Limit
1,2-Dichloroethane-d4	17060-07-0	.0484	97	.05	.0483	97	62 - 125	.05	.0473	95	NA	NA
4-Bromofluorobenzene	460-00-4	.0467	93	.05	.0531	106	62 - 127	.05	.0539	108	NA	NA
Dibromofluoromethane	1868-53-7	.0493	99	.05	.0487	97	65 - 130	.05	.0496	99	NA	NA
Toluene d8	2037-26-5	.0497	99	.05	.0507	101	71 - 132	.05	.0511	102	NA	NA

GC Semi-Volatiles QC Summary

Analytical Batch 735644		Client ID	MB735281		LCS735281				LCSD735281				
Prep Batch 735281		Lab ID	2315302		2315303				2315304				
Prep Method MADEP EPH Rev 1.1 (LA)		Sample Type	MB		LCS				LCSD				
		Prep Date	03/07/22 13:30		03/07/22 13:30				03/07/22 13:30				
		Analysis Date	03/09/22 21:34		03/09/22 21:49				03/09/22 22:08				
		Matrix	Solid		Solid				Solid				
MADEP EPH Rev 1.1 (LA)			Units Result	mg/kg DL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Aliphatic >C10-C12		GCSV-02-11	2.44U	2.44	10.0	8.64	86	30 - 140	10.0	7.53	75	14	25
Aliphatic >C12-C16		GCSV-02-12	2.44U	2.44	10.0	9.58	96	40 - 140	10.0	7.95	80	19	25
Aliphatic >C16-C35		GCSV-02-31	2.44U	2.44	45.0	46.4	103	40 - 140	45.0	39.1	87	17	25
Surrogate		CAS#	Rec	%R	Added	Rec	%R	Limits	Added	Rec	%	RPD	Limit
1-Chlorooctadecane		3386-33-2	2.28	57	4	3.48	87	40 - 140	4	3.01	75	NA	NA

Analytical Batch 735643		Client ID	MB735281		LCS735281			LCSD735281					
Prep Batch 735281		Lab ID	2315302		2315303			2315304					
Prep Method MADEP EPH Rev 1.1 (LA)		Sample Type	MB		LCS			LCSD					
		Prep Date	03/07/22 13:30		03/07/22 13:30			03/07/22 13:30					
		Analysis Date	03/09/22 21:16		03/09/22 21:34			03/09/22 21:49					
		Matrix	Solid		Solid			Solid					
MADEP EPH Rev 1.1 (LA)			Units Result	mg/kg DL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Aromatic >C21-C35	GCSV-05-18	2.95U	2.95	50.0	42.7	85	40 - 140	50.0	55.7	111	26*	25	
Unadjusted >C10-C12 Aromatics	GCSV-02-15	2.95U	2.95	5.00	3.68	74	30 - 140	5.00	3.30	66	11	25	
Unadjusted >C12-C16 Aromatics	GCSV-02-16	2.95U	2.95	20.0	14.6	73	40 - 140	20.0	15.1	76	3	25	
Unadjusted >C16-C21 Aromatics	GCSV-02-17	2.95U	2.95	10.0	8.04	80	40 - 140	10.0	9.62	96	18	25	
Surrogate	CAS#	Rec	%R	Added	Rec	%R	Limits	Added	Rec	%	RPD	Limit	
2-Bromonaphthalene	580-13-2	4.31	108	4	3	75	40 - 140	4	2.45	61	NA	NA	
2-Fluorobiphenyl	321-60-8	4.44	111	4	3.6	90	40 - 140	4	3.76	94	NA	NA	
o-Terphenyl	84-15-1	2.91	73	4	2.93	73	40 - 140	4	3.54	89	NA	NA	

CHAIN-OF-CUSTODY Analytical Request Document										LAB USE ONLY- Affix Workorder																																																																																																																																											
Company: <i>ECS Southeast</i>					Billing Information:					Client ID: 5043 - ECS Southeast, LLP SDG: 222030321 PM: KSM 																																																																																																																																											
Address: <i>11115 Industrialplex Blvd Baton Rouge LA 70809</i>					Report To: <i>Bill Perick</i>															Site Collection Info/Address: <i>LA 405</i>																																																																																																																																	
Copy To:					State: <i>LA</i> County/City: <i>Baton Rouge</i> Time Zone Collected: <i>PT</i> ☒ <i>MT</i> ☐ <i>CT</i> ☐ <i>ET</i>																																																																																																																																																
Customer Project Name/Number: <i>49-16460</i> <i>Germania Site</i>										** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____																																																																																																																																											
Phone: <i>225-224-3145</i> Site/Facility ID #:					Compliance Monitoring? ☐ Yes ☐ No					Analyses VOLS VPH EPH																																																																																																																																											
Email:					Quote #:																																																																																																																																																
Collected By (print): <i>Bill Perick</i>					Purchase Order #:					Lab Profile/Line: Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: _____ Sample pH Acceptable Y N NA pH Strips: _____ Sulfide Present Y N NA Lead Acetate Strips: _____ LAB USE ONLY: Lab Sample # / Comments:																																																																																																																																											
Collected By (Signature): <i>Bill Perick</i>					Turnaround Date Required: <i>7-10 day</i>																																																																																																																																																
Sample Disposal: ☐ Dispose as appropriate ☐ Return ☐ Archive: _____ ☐ Hold: _____					Rush: ☐ Same Day ☐ Next Day ☐ 2 Day ☐ 3 Day ☐ 4 Day ☐ 5 Day (Expedite Charges Apply)					Field Filtered (if applicable): ☐ Yes ☐ No																																																																																																																																											
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)					Analysis:																																																																																																																																																
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Customer Sample ID</th> <th rowspan="2">Matrix *</th> <th rowspan="2">Comp / Grab</th> <th colspan="2">Collected (or Composite Start)</th> <th colspan="2">Composite End</th> <th rowspan="2">Res Cl</th> <th rowspan="2"># of Ctns</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr><td>SB-1-0-2</td><td>SL</td><td>G</td><td>3-2-22</td><td>1200</td><td></td><td></td><td></td><td>8</td></tr> <tr><td>SB-2-2-4</td><td>SL</td><td>G</td><td>3-2-22</td><td>1015</td><td></td><td></td><td></td><td>8</td></tr> <tr><td>SB-3-0-2</td><td>SL</td><td>G</td><td>3-2-22</td><td>1125</td><td></td><td></td><td></td><td>8</td></tr> <tr><td>SB-4-2-4</td><td>SL</td><td>G</td><td>3-2-22</td><td>1045</td><td></td><td></td><td></td><td>8</td></tr> <tr><td>SB-5-0-2</td><td>SL</td><td>G</td><td>3-2-22</td><td>1235</td><td></td><td></td><td></td><td>8</td></tr> <tr><td>SB-6-0-2</td><td>SL</td><td>G</td><td>3-2-22</td><td>1255</td><td></td><td></td><td></td><td>8</td></tr> <tr><td>SB-7-2-4</td><td>SL</td><td>G</td><td>3-2-22</td><td>1320</td><td></td><td></td><td></td><td>8</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>										Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Date	Time	Date	Time	SB-1-0-2	SL	G	3-2-22	1200				8	SB-2-2-4	SL	G	3-2-22	1015				8	SB-3-0-2	SL	G	3-2-22	1125				8	SB-4-2-4	SL	G	3-2-22	1045				8	SB-5-0-2	SL	G	3-2-22	1235				8	SB-6-0-2	SL	G	3-2-22	1255				8	SB-7-2-4	SL	G	3-2-22	1320				8																																																							SHORT HOLDS PRESENT (<72 hours): Y N N/A									
Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns																																																																																																																																													
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SB-7-2-4	SL	G	3-2-22	1320				8																																																																																																																																													
Customer Remarks / Special Conditions / Possible Hazards: <i>If unable to Analyze VPH in Baton Rouge send them off tomorrow</i>																																																																																																																																																					
Type of Ice Used: Wet Blue Dry None										Lab Tracking #: 2778677																																																																																																																																											
Packing Material Used:										Samples received via: FEDEX UPS Client Courier Pace Courier																																																																																																																																											
Radchem sample(s) screened (<500 cpm): Y N NA										Lab Sample Temperature Info: Temp Blank Received: Y N NA Therm ID#: _____ Cooler 1 Temp Upon Receipt: _____ oC Cooler 1 Therm Corr. Factor: _____ oC Cooler 1 Corrected Temp: _____ oC Comments: E34 4.2																																																																																																																																											
Relinquished by/Company: (Signature) <i>Bill Perick (ECS)</i>					Date/Time: <i>3-2-22</i>					Received by/Company: (Signature) <i>Bill Perick</i>					Date/Time: <i>3/2/22</i>																																																																																																																																						
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Non Conformance(s): YES / NO										Page: _____ of: _____																																																																																																																																											



SAMPLE RECEIVING CHECKLIST



SAMPLE DELIVERY GROUP 222030321			CHECKLIST		YES	NO
Client PM KSM 5043 - ECS Southeast, LLP	Transport Method CUST		Samples received with proper thermal preservation?	☒	☐	
			Radioactivity is <1600 cpm? If no, record cpm value in notes section.	☒	☐	
Profile Number 295624	Received By Henderson, Jacob R.		COC relinquished and complete (including sampleIDs, collect times, and sampler)?	☒	☐	
			All containers received in good condition and within hold time?	☒	☐	
Line Item(s) 1 - RECAP SOLIDS	Receive Date(s) 03/02/22		All sample labels and containers received match the chain of custody?	☒	☐	
			Preservative added to any containers?	☐	☒	
			If received, was headspace for VOC water containers < 6mm?	☒	☐	
			Samples collected in containers provided by Pace Gulf Coast?	☒	☐	
COOLERS			DISCREPANCIES	LAB PRESERVATIONS		
Airbill	Thermometer ID: E34	Temp °C	None	None		
		4.2				
NOTES						

March 10, 2022

Karen Melerine
Pace Analytical New Orleans
1000 Riverbend Blvd
Suite F
St. Rose, LA 70087

RE: Project: 222030321/ECS Southeast
Pace Project No.: 20236752

Dear Karen Melerine:

Enclosed are the analytical results for sample(s) received by the laboratory on March 04, 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 - New Orleans

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

Sincerely,



Savioune Shepherd
savioune.shepherd@pacelabs.com
(504)469-0333
Project Manager

Enclosures

cc: Kelley Lott, Pace Gulf Coast



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 222030321/ECS Southeast

Pace Project No.: 20236752

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):
E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):
02006

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

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SAMPLE SUMMARY

Project: 222030321/ECS Southeast

Pace Project No.: 20236752

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20236752001	SB-1-0-2	Solid	03/02/22 12:00	03/04/22 14:25
20236752002	SB-2-2-4	Solid	03/02/22 10:15	03/04/22 14:25
20236752003	SB-3-0-2	Solid	03/02/22 23:25	03/04/22 14:25
20236752004	SB-4-2-4	Solid	03/02/22 22:45	03/04/22 14:25
20236752005	SB-5-0-2	Solid	03/02/22 12:35	03/04/22 14:25
20236752006	SB-6-0-3	Solid	03/02/22 12:55	03/04/22 14:25
20236752007	SB-7-2-4	Solid	03/02/22 13:20	03/04/22 14:25

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SAMPLE ANALYTE COUNT

Project: 222030321/ECS Southeast

Pace Project No.: 20236752

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20236752001	SB-1-0-2	MADEP VPH Mod	RVJ	4
20236752002	SB-2-2-4	MADEP VPH Mod	RVJ	4
20236752003	SB-3-0-2	MADEP VPH Mod	RVJ	4
20236752004	SB-4-2-4	MADEP VPH Mod	RVJ	4
20236752005	SB-5-0-2	MADEP VPH Mod	RVJ	4
20236752006	SB-6-0-3	MADEP VPH Mod	RVJ	4
20236752007	SB-7-2-4	MADEP VPH Mod	RVJ	4

PASI-N = Pace Analytical Services - New Orleans

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 222030321/ECS Southeast

Pace Project No.: 20236752

Sample: SB-1-0-2 **Lab ID: 20236752001** Collected: 03/02/22 12:00 Received: 03/04/22 14:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015/8021 GCV VPH								
Analytical Method: MADEP VPH Mod Preparation Method: EPA 5035 Pace Analytical Services - New Orleans								
Aliphatic (C06-C08)	ND	mg/kg	3.5	1	03/07/22 07:48	03/07/22 12:04		
Aliphatic (>C08-C10)	ND	mg/kg	2.9	1	03/07/22 07:48	03/07/22 12:04		
Aromatic (>C08-C10)	ND	mg/kg	2.9	1	03/07/22 07:48	03/07/22 12:04		
Surrogates								
4-Bromofluorobenzene (S)	92	%.	63-133	1	03/07/22 07:48	03/07/22 12:04	460-00-4	

Sample: SB-2-2-4 **Lab ID: 20236752002** Collected: 03/02/22 10:15 Received: 03/04/22 14:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015/8021 GCV VPH								
Analytical Method: MADEP VPH Mod Preparation Method: EPA 5035 Pace Analytical Services - New Orleans								
Aliphatic (C06-C08)	ND	mg/kg	3.4	1	03/07/22 07:48	03/07/22 12:27		
Aliphatic (>C08-C10)	ND	mg/kg	2.8	1	03/07/22 07:48	03/07/22 12:27		
Aromatic (>C08-C10)	ND	mg/kg	2.8	1	03/07/22 07:48	03/07/22 12:27		
Surrogates								
4-Bromofluorobenzene (S)	94	%.	63-133	1	03/07/22 07:48	03/07/22 12:27	460-00-4	

Sample: SB-3-0-2 **Lab ID: 20236752003** Collected: 03/02/22 23:25 Received: 03/04/22 14:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015/8021 GCV VPH								
Analytical Method: MADEP VPH Mod Preparation Method: EPA 5035 Pace Analytical Services - New Orleans								
Aliphatic (C06-C08)	ND	mg/kg	5.0	1	03/07/22 07:48	03/07/22 12:51		
Aliphatic (>C08-C10)	ND	mg/kg	4.1	1	03/07/22 07:48	03/07/22 12:51		
Aromatic (>C08-C10)	ND	mg/kg	4.1	1	03/07/22 07:48	03/07/22 12:51		
Surrogates								
4-Bromofluorobenzene (S)	93	%.	63-133	1	03/07/22 07:48	03/07/22 12:51	460-00-4	

Sample: SB-4-2-4 **Lab ID: 20236752004** Collected: 03/02/22 22:45 Received: 03/04/22 14:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015/8021 GCV VPH								
Analytical Method: MADEP VPH Mod Preparation Method: EPA 5035 Pace Analytical Services - New Orleans								
Aliphatic (C06-C08)	ND	mg/kg	3.2	1	03/07/22 07:48	03/07/22 13:15		
Aliphatic (>C08-C10)	ND	mg/kg	2.6	1	03/07/22 07:48	03/07/22 13:15		
Aromatic (>C08-C10)	ND	mg/kg	2.6	1	03/07/22 07:48	03/07/22 13:15		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 222030321/ECS Southeast

Pace Project No.: 20236752

Sample: SB-4-2-4 **Lab ID: 20236752004** Collected: 03/02/22 22:45 Received: 03/04/22 14:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015/8021 GCV VPH Analytical Method: MADEP VPH Mod Preparation Method: EPA 5035 Pace Analytical Services - New Orleans								
Surrogates								
4-Bromofluorobenzene (S)	93	%.	63-133	1	03/07/22 07:48	03/07/22 13:15	460-00-4	

Sample: SB-5-0-2 **Lab ID: 20236752005** Collected: 03/02/22 12:35 Received: 03/04/22 14:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015/8021 GCV VPH Analytical Method: MADEP VPH Mod Preparation Method: EPA 5035 Pace Analytical Services - New Orleans								
Aliphatic (C06-C08)	ND	mg/kg	3.4	1	03/07/22 07:48	03/07/22 13:38		
Aliphatic (>C08-C10)	ND	mg/kg	2.8	1	03/07/22 07:48	03/07/22 13:38		
Aromatic (>C08-C10)	ND	mg/kg	2.8	1	03/07/22 07:48	03/07/22 13:38		
Surrogates								
4-Bromofluorobenzene (S)	93	%.	63-133	1	03/07/22 07:48	03/07/22 13:38	460-00-4	

Sample: SB-6-0-3 **Lab ID: 20236752006** Collected: 03/02/22 12:55 Received: 03/04/22 14:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015/8021 GCV VPH Analytical Method: MADEP VPH Mod Preparation Method: EPA 5035 Pace Analytical Services - New Orleans								
Aliphatic (C06-C08)	ND	mg/kg	3.6	1	03/07/22 07:48	03/07/22 14:02		
Aliphatic (>C08-C10)	ND	mg/kg	3.0	1	03/07/22 07:48	03/07/22 14:02		
Aromatic (>C08-C10)	ND	mg/kg	3.0	1	03/07/22 07:48	03/07/22 14:02		
Surrogates								
4-Bromofluorobenzene (S)	93	%.	63-133	1	03/07/22 07:48	03/07/22 14:02	460-00-4	

Sample: SB-7-2-4 **Lab ID: 20236752007** Collected: 03/02/22 13:20 Received: 03/04/22 14:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015/8021 GCV VPH Analytical Method: MADEP VPH Mod Preparation Method: EPA 5035 Pace Analytical Services - New Orleans								
Aliphatic (C06-C08)	ND	mg/kg	3.6	1	03/07/22 07:48	03/07/22 14:26		
Aliphatic (>C08-C10)	ND	mg/kg	2.9	1	03/07/22 07:48	03/07/22 14:26		
Aromatic (>C08-C10)	ND	mg/kg	2.9	1	03/07/22 07:48	03/07/22 14:26		
Surrogates								
4-Bromofluorobenzene (S)	94	%.	63-133	1	03/07/22 07:48	03/07/22 14:26	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 222030321/ECS Southeast

Pace Project No.: 20236752

QC Batch:	249342	Analysis Method:	MADEP VPH Mod
QC Batch Method:	EPA 5035	Analysis Description:	8015 Solid VPH
		Laboratory:	Pace Analytical Services - New Orleans

Associated Lab Samples: 20236752001, 20236752002, 20236752003, 20236752004, 20236752005, 20236752006, 20236752007

METHOD BLANK: 1184475

Matrix: Solid

Associated Lab Samples: 20236752001, 20236752002, 20236752003, 20236752004, 20236752005, 20236752006, 20236752007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (>C08-C10)	mg/kg	ND	3.5	03/07/22 10:29	
Aliphatic (C06-C08)	mg/kg	ND	4.2	03/07/22 10:29	
Aromatic (>C08-C10)	mg/kg	ND	3.5	03/07/22 10:29	
4-Bromofluorobenzene (S)	%	94	63-133	03/07/22 10:29	

METHOD BLANK: 1184576

Matrix: Solid

Associated Lab Samples: 20236752001, 20236752002, 20236752003, 20236752004, 20236752005, 20236752006, 20236752007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (>C08-C10)	mg/kg	ND	3.5	03/07/22 10:52	
Aliphatic (C06-C08)	mg/kg	ND	4.2	03/07/22 10:52	
Aromatic (>C08-C10)	mg/kg	ND	3.5	03/07/22 10:52	
4-Bromofluorobenzene (S)	%	94	63-133	03/07/22 10:52	

LABORATORY CONTROL SAMPLE: 1184476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aliphatic (>C08-C10)	mg/kg	14	12.3	88	72-127	
Aliphatic (C06-C08)	mg/kg	14	12.4	88	75-141	
Aromatic (>C08-C10)	mg/kg	14	12.6	90	76-136	
4-Bromofluorobenzene (S)	%			95	63-133	

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

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QUALIFIERS

Project: 222030321/ECS Southeast

Pace Project No.: 20236752

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.

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

BATCH QUALIFIERS

Batch: 249368

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 222030321/ECS Southeast

Pace Project No.: 20236752

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20236752001	SB-1-0-2	EPA 5035	249342	MADEP VPH Mod	249368
20236752002	SB-2-2-4	EPA 5035	249342	MADEP VPH Mod	249368
20236752003	SB-3-0-2	EPA 5035	249342	MADEP VPH Mod	249368
20236752004	SB-4-2-4	EPA 5035	249342	MADEP VPH Mod	249368
20236752005	SB-5-0-2	EPA 5035	249342	MADEP VPH Mod	249368
20236752006	SB-6-0-3	EPA 5035	249342	MADEP VPH Mod	249368
20236752007	SB-7-2-4	EPA 5035	249342	MADEP VPH Mod	249368

REPORT OF LABORATORY ANALYSIS

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1543515

WO# : 20236752



Chain of Custody

PAGC Baton Rouge Laboratory

Workorder: 222030321 **Workorder Name:** Germania **Results Requested By:** 14-Mar

Report / Invoice To: Subcontract To: PACE NO

PM: Karen Melerine
Pace Analytical Gulf Coast
7979 Innovation Park Drive
Baton Rouge, LA 70820
Phone (225) 769-4900
Email: karen.melerine@pacelabs.com

State of Sample Origin: LA

P.O. 222030321

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	MeOH					LA VPH										LAB USE ONLY
1																				
2	SB-1-0-2	3/2/2022 12:00	22203032101	S	1					x										
3	SB-2-2-4	3/2/2022 10:15	22203032102	S	1					x										
4	SB-3-0-2	3/2/2022 23:25	22203032103	S	1					x										
5	SB-4-2-4	3/2/2022 22:45	22203032104	S	1					x										
6	SB-5-0-2	3/2/2022 12:35	22203032105	S	1					x										
7	SB-6-0-2	3/2/2022 12:55	22203032106	S	1					x										
8	SB-7-2-4	3/3/2022 13:20	22203032107	S	1					x										
9																				
10																				
Transfers		Released By	Date/Time	Received By	Date/Time	Comments														
1		AKH	3-4-22 11:45	Trinity Melerine	3-9-22 11:45	RECAP														
2		Trinity Melerine	3-4-22 11:45	Trinity Melerine	3/4/22 14:25															
3																				

Cooler Temperature on Receipt 2.3 °C Custody Seal Y or N Received on Ice Y or N Sample Intact Y or N



Sample Condition Upon R

1000 Riverbend Blvd., Suite F
St. Rose, LA 70087

Project

WO#: 20236752

PM: SJS

Due Date: 03/10/22

CLIENT: 20-GCAL

Courier: ☒ Pace Courier ☐ Hired Courier ☐ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: ☐ Yes ☒ NoThermometer Used: ☒ Therm Fisher IR 7
☒ Therm Fisher IR 10Type of Ice: ☒ Wet ☐ Blue ☐ None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C Cooler

Date and Initials of person examining

contents: 3/5/2022 Jms

Temp must be measured from Temperature blank when present

Comments:

Temperature Blank Present?"	☐ Yes ☐ No ☒ N/A	1
Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	2
Chain of Custody Complete:	☒ Yes ☐ No ☐ N/A	3
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	4
Sampler Name & Signature on COC:	☐ Yes ☒ No ☐ N/A	5
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	6
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	7
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	8
Filtered vol. Rec. for Diss. tests	☐ Yes ☐ No ☒ N/A	9
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	10
All containers received within manufacture's precautionary and/or expiration dates.	☒ Yes ☐ No ☐ N/A	11
All containers needing chemical preservation have been checked (except VOA, coliform, & O&G).	☐ Yes ☐ No ☒ N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	13
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	14
Trip Blank Present:	☐ Yes ☒ No	15

If No, was preservative added? ☐ Yes ☐ No
If added record lot no.: HNO3 _____ H2SO4 _____

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____