SPECTRUM

Solutions to Your Environmental Challenges

July 21, 2020

Central Alabama Housing Alliance C/O
Habitat for Humanity of Greater Birmingham
PO Box 540
4408 Lloyd Noland Parkway
Fairfield, Alabama 35064

ATTENTION: **Patricia Burch**

SUBJECT: **Limited Site Assessment Report**
East Lake Scattered Sites
Birmingham, Alabama
Spectrum Project No. 3357-001-02

Via email to: pburch@habitatbirmingham.org

Dear Patricia:

Spectrum Environmental, Inc. (Spectrum) is pleased to submit this Limited Site Assessment (Phase II ESA) Report for the above referenced site. This report includes a summary of the project background, presents a summary of the scope of work, and provides a summary of the findings/conclusions.

Project Background

Spectrum completed a Phase I Environmental Site Assessment (Phase I ESA) for the referenced property on June 2, 2020. A summary of the Phase I ESA Findings is provided below:

Based on our review of current and historical site data, the historical use of surrounding properties as a dry-cleaning facility and gas stations from the 1930s until at least the late 1980s is interpreted as a REC in connection with the target property.

Limited Site Assessment – Scope of Work

Based on the understanding discussed above, a limited assessment of soil and groundwater on the target property was conducted to assess whether or not the historical uses of upgradient surrounding properties have affected the target property. A summary of the scope of work conducted is summarized below.

1. Spectrum contacted Alabama One Call to locate underground utilities on the target property and in proximity to the proposed boring locations. The site location and aerial photograph are shown on Figures 1 and 2 in Appendix A;
2. Spectrum advanced three soil borings via direct-push techniques (Appendix A - Figure 3) as an initial evaluation of soil and groundwater conditions.
3. For each location, the borings were advanced to 20 feet below surface level, until refusal, or until groundwater was encountered;
4. Spectrum collected one soil sample from each boring immediately above the groundwater table and one groundwater sample from each boring location;
5. Each sample was recorded on a chain of custody form; placed into the cooler with ice, and submitted with the samples to the chosen laboratory for analysis of Volatile Organic Compounds via EPA method 8260C.

Summary of Field Activity

Spectrum mobilized to the site on July 9, 2020. Two borings were selected at the vacant lot located at 111 71st Street N. and one boring was selected at the vacant lot located at 114 72nd Street N. A map depicting soil boring locations is provided in Appendix A - Figure 3.

The soil samples were removed from the clear acetate liners and placed into laboratory-prepared sample jars and vials. Groundwater samples were also obtained from each boring location and placed into laboratory-prepared sample jars and vials. All samples were sent to Xenco Laboratories in Norcross, Georgia under a chain of custody in a refrigerated cooler. The samples were all analyzed for Volatile Organic Compounds (VOCs) via EPA method 8260C.

Summary of Laboratory Analytical Results

Laboratory analytical data was compared against Regional Screening Levels (RSL) published by EPA. The RSL table utilized has a target hazard quotient of 0.1 and a Target Cancer Risk of 1E-06.

Summary of Soil Data

Based on our review of the laboratory analytical reports, all soil samples reported the VOCs to be below the method detection limit. The Laboratory Analysis Report and Chain of Custody are provided in Appendix B.

Summary of Groundwater Data

Based on our review of the laboratory analytical reports, all groundwater samples reported the VOCs to be below the method detection limit, except for Boring 2. The sample taken from Boring 2 reported Tetrachloroethylene at the 1.84 µg/L. The Tapwater RSL for Tetrachloroethylene is 4.1 µg/L and maximum contaminant limit (MCL) is 5.0 µg/L. The Laboratory Analysis Report and Chain of Custody are provided in Appendix B.

Conclusions

Soil and groundwater samples were collected from three borings at the subject property. All soil and groundwater samples were reported below the EPA RSLs. Based on these results, it is unlikely that contamination originating from the historical dry-cleaning facility and gas stations in the surrounding area has affected the property.

Should you have any questions or comments, please call the undersigned at (205) 664-2000.

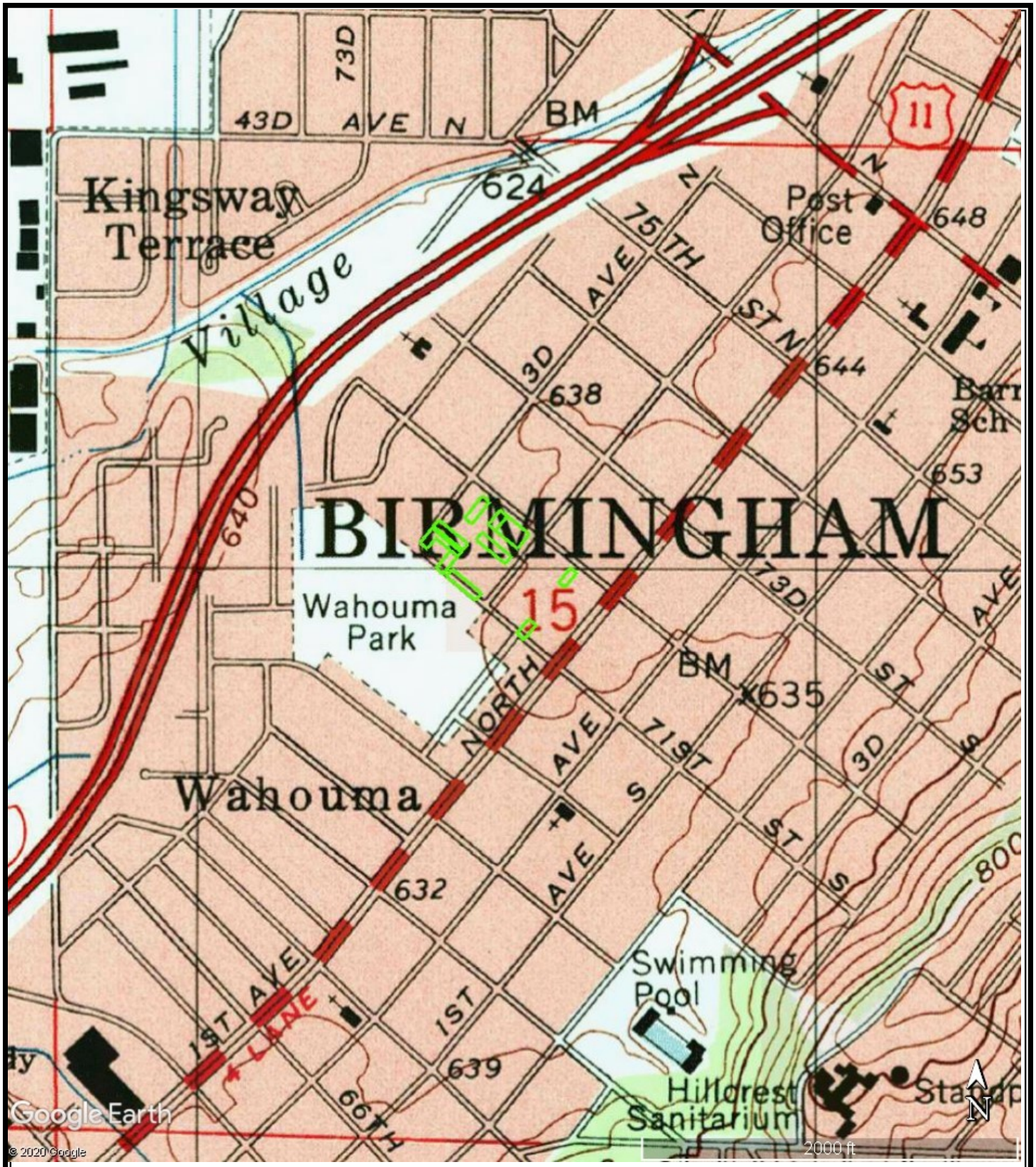
Sincerely,
SPECTRUM ENVIRONMENTAL, INC.

Audrey Henson
Staff Scientist

Jamie D. Cox, P.G.
Division Manager

APPENDIX A

FIGURES



Source: Image courtesy of EDR. Approximate site location outlined in green.

NO.	DATE	REVISION NOTE	BY

Drawn By:	Project #:
AH	3357
Checked By:	Date:
AAH	6/2/2020
Project Mgr.:	File Name:
JC	3357-001-02

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85 Spectrum Cove
Alabaster, AL 35007
O - 205-664-2000
F-205-664-2142

TITLE

Figure 1 - Site Location
East Lake Scattered Sites
Birmingham, Alabama

Source: Image courtesy of Google Earth Approximate site location outlined in green

NO.	DATE	REVISION NOTE	BY

Drawn By:	Project #:
AH	3357
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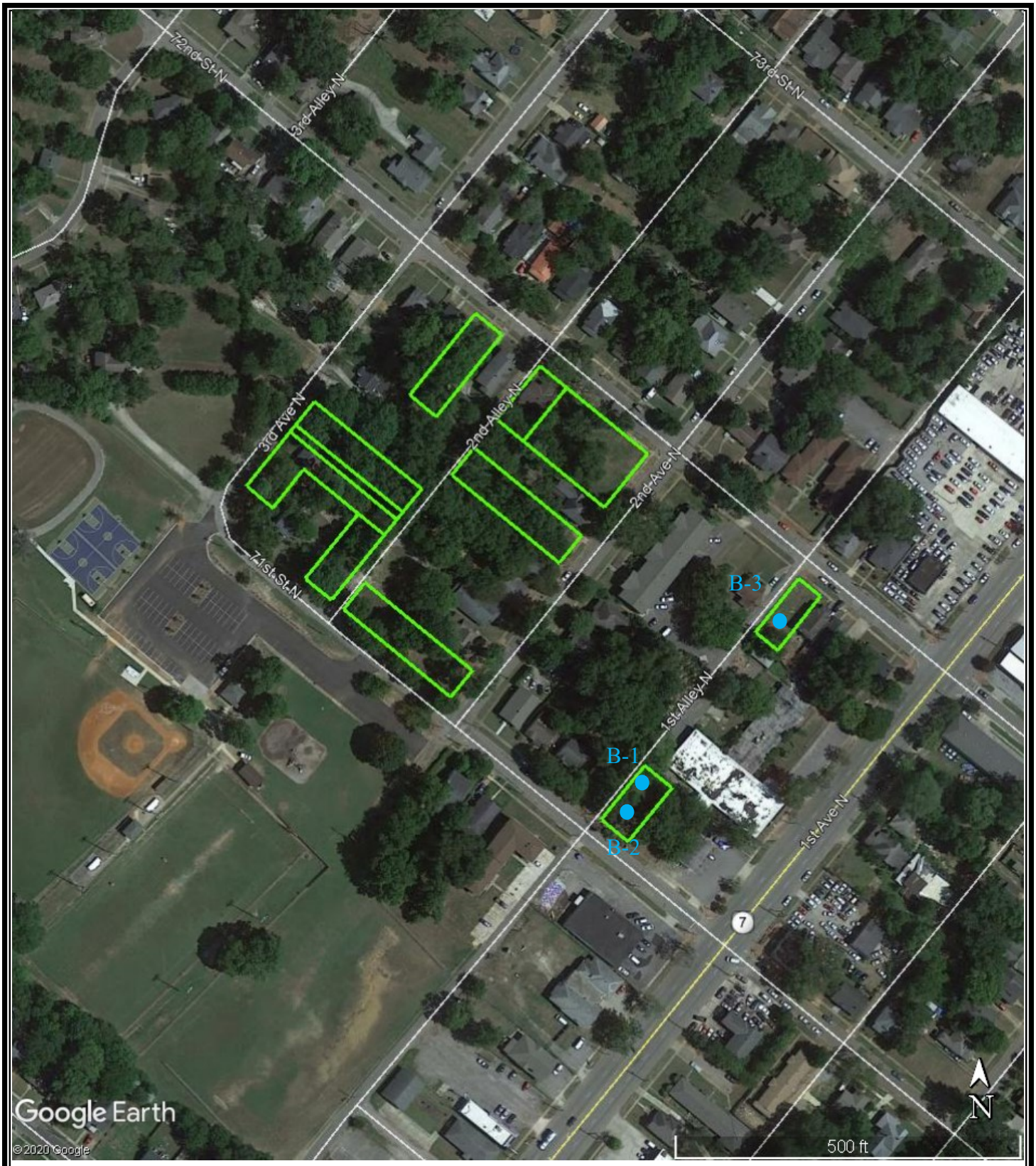
TITLE

Figure 2 - Site Aerial Map
East Lake Scattered Sites
Birmingham, AL



Source: Image courtesy of Google Earth

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TITLE

Figure 3 - Boring Locations
East Lake Scattered Sites
Birmingham, AL

APPENDIX B

SOIL AND GROUNDWATER LABORATORY ANALYTICAL REPORTS

Analytical Report 667009

for

Spectrum Environmental Services

Project Manager: Jamie Cox

Wauhoma Project

3357-002

07.21.2020

Collected By: Client

1600 Oakbrook Dr., Suite 565, Norcross, GA 30093
Ph:(770) 449-8800

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

07.21.2020

Project Manager: **Jamie Cox**
Spectrum Environmental Services
85 Spectrum Cove
Alabaster, AL 35007

Reference: Eurofins Xenco, LLC Report No(s): **667009**
Wauhoma Project
Project Address: Alabaster, AL

Jamie Cox:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 667009. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 667009 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

John Andros
Lab Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Hits Summary 667009

Spectrum Environmental Services, Alabaster, AL

Wauhoma Project

Sample Id : **SB-1**
Lab Sample Id : 667009-001
Sample Depth : 16 ft

Matrix : Soil
Date Collected : 07.09.2020 09:40
Date Received : 07.11.2020 11:10

% Moisture :
Basis : Wet Weight

Analytical Method : Percent Moisture by SM2540G
Seq Number : 3131640

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	MOIST	25.3	%	07.15.2020 11:45		1

Sample Id : **SB-2**
Lab Sample Id : 667009-002
Sample Depth : 18 ft

Matrix : Soil
Date Collected : 07.09.2020 11:50
Date Received : 07.11.2020 11:10

% Moisture :
Basis : Wet Weight

Analytical Method : Percent Moisture by SM2540G
Seq Number : 3131640

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	MOIST	23.3	%	07.15.2020 11:45		1

Sample Id : **SB-3**
Lab Sample Id : 667009-003
Sample Depth : 16 ft

Matrix : Soil
Date Collected : 07.09.2020 14:00
Date Received : 07.11.2020 11:10

% Moisture :
Basis : Wet Weight

Analytical Method : Percent Moisture by SM2540G
Seq Number : 3131640

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	MOIST	27.3	%	07.15.2020 11:45		1

Sample Id : **SB-2 GW**
Lab Sample Id : 667009-006

Matrix : Ground Water
Date Collected : 07.10.2020 10:00
Date Received : 07.11.2020 11:10

% Moisture :

Analytical Method : VOCs by SW-846 8260C
Seq Number : 3131832

Prep Method: SW5030B
Date Prep: 07.15.2020 17:30

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Tetrachloroethylene	127-18-4	1.84	ug/L	07.16.2020 00:07		1

Certificate of Analytical Results 667009

Spectrum Environmental Services, Alabaster, AL

Wauhoma Project

Sample Id: **SB-1**
Lab Sample Id: 667009-001

Matrix: Soil
Date Collected: 07.09.2020 09:40

Date Received: 07.11.2020 11:10
Sample Depth: 16 ft

Analytical Method: VOCs By SW846 8260C
Tech: SAD
Analyst: SAD
Seq Number: 3132016

Date Prep: 07.17.2020 18:30

Prep Method: SW5035A
% Moisture: 25.34
Basis: Dry Weight

SUB: E871002

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Acetone	ND	0.100	U	mg/kg	07.18.2020 04:19	1
Acrolein	ND	0.100	U	mg/kg	07.18.2020 04:19	1
Acrylonitrile	ND	0.0500	U	mg/kg	07.18.2020 04:19	1
Benzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Bromobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Bromochloromethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Bromodichloromethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Bromoform	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Bromomethane	ND	0.0100	U	mg/kg	07.18.2020 04:19	1
2-Butanone	ND	0.100	U	mg/kg	07.18.2020 04:19	1
tert-Butylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Sec-Butylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
n-Butylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Carbon Disulfide	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Carbon Tetrachloride	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Chlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Chloroethane	ND	0.0100	U	mg/kg	07.18.2020 04:19	1
Chloroform	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Chloromethane	ND	0.0100	U	mg/kg	07.18.2020 04:19	1
2-Chlorotoluene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
4-Chlorotoluene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
p-Cymene (p-Isopropyltoluene)	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,2-Dibromo-3-Chloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Dibromochloromethane	ND	0.0100	U	mg/kg	07.18.2020 04:19	1
1,2-Dibromoethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Dibromomethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,2-Dichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,3-Dichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,4-Dichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Dichlorodifluoromethane	ND	0.0100	U	mg/kg	07.18.2020 04:19	1
1,2-Dichloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,1-Dichloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
trans-1,2-dichloroethene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
cis-1,2-Dichloroethene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,1-Dichloroethene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
2,2-Dichloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,3-Dichloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,2-Dichloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
trans-1,3-dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,1-Dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
cis-1,3-Dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1

Project: Wauhoma Project

Certificate of Analytical Results 667009

Spectrum Environmental Services, Alabaster, AL

Wauhoma Project

Sample Id:	**SB-1**	Matrix:	Soil	Date Received:	07.11.2020 11:10
Lab Sample Id:	667009-001	Date Collected:	07.09.2020 09:40	Sample Depth:	16 ft

Analytical Method:	VOCs By SW846 8260C			Prep Method:	SW5035A
Tech:	SAD			% Moisture:	25.34
Analyst:	SAD	Date Prep:	07.17.2020 18:30	Basis:	Dry Weight
Seq Number:	3132016			**SUB: E871002**	

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Ethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Hexachlorobutadiene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
2-Hexanone	ND	0.0500	U	mg/kg	07.18.2020 04:19	1
isopropylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Methylene Chloride	ND	0.0100	U	mg/kg	07.18.2020 04:19	1
4-Methyl-2-Pentanone	ND	0.0500	U	mg/kg	07.18.2020 04:19	1
Naphthalene	ND	0.0100	U	mg/kg	07.18.2020 04:19	1
n-Propylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Styrene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,1,1,2-Tetrachloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,1,2,2-Tetrachloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Tetrachloroethylene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Toluene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,2,3-Trichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,2,4-Trichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,1,2-Trichloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,1,1-Trichloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Trichloroethene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Trichlorofluoromethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,2,3-Trichloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,2,4-Trimethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,3,5-Trimethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Vinyl Acetate	ND	0.0250	U	mg/kg	07.18.2020 04:19	1
Vinyl Chloride	ND	0.0100	U	mg/kg	07.18.2020 04:19	1
o-Xylene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
m,p-Xylenes	ND	0.0100	U	mg/kg	07.18.2020 04:19	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	109	%	53-142	07.18.2020 04:19	
1,2-Dichloroethane-D4	17060-07-0	110	%	56-150	07.18.2020 04:19	
Toluene-D8	2037-26-5	92	%	70-130	07.18.2020 04:19	
4-Bromofluorobenzene	460-00-4	101	%	68-152	07.18.2020 04:19	

Project: Wauhoma Project

Certificate of Analytical Results 667009

Spectrum Environmental Services, Alabaster, AL

Wauhoma Project

Sample Id: **SB-2**
Lab Sample Id: 667009-002

Matrix: Soil
Date Collected: 07.09.2020 11:50

Date Received: 07.11.2020 11:10
Sample Depth: 18 ft

Analytical Method: VOCs By SW846 8260C
Tech: SAD
Analyst: SAD
Seq Number: 3132016

Date Prep: 07.17.2020 18:30

Prep Method: SW5035A
% Moisture: 23.31
Basis: Dry Weight

SUB: E871002

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Acetone	ND	0.100	U	mg/kg	07.18.2020 04:40	1
Acrolein	ND	0.100	U	mg/kg	07.18.2020 04:40	1
Acrylonitrile	ND	0.0500	U	mg/kg	07.18.2020 04:40	1
Benzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Bromobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
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Bromodichloromethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Bromoform	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Bromomethane	ND	0.0100	U	mg/kg	07.18.2020 04:40	1
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Chlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
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Chloromethane	ND	0.0100	U	mg/kg	07.18.2020 04:40	1
2-Chlorotoluene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
4-Chlorotoluene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
p-Cymene (p-Isopropyltoluene)	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,2-Dibromo-3-Chloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Dibromochloromethane	ND	0.0100	U	mg/kg	07.18.2020 04:40	1
1,2-Dibromoethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
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Dichlorodifluoromethane	ND	0.0100	U	mg/kg	07.18.2020 04:40	1
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1,3-Dichloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,2-Dichloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
trans-1,3-dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,1-Dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
cis-1,3-Dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1

Project: Wauhoma Project

Certificate of Analytical Results 667009

Spectrum Environmental Services, Alabaster, AL

Wauhoma Project

Sample Id:	**SB-2**	Matrix:	Soil	Date Received:	07.11.2020 11:10
Lab Sample Id:	667009-002	Date Collected:	07.09.2020 11:50	Sample Depth:	18 ft

Analytical Method:	VOCs By SW846 8260C			Prep Method:	SW5035A
Tech:	SAD			% Moisture:	23.31
Analyst:	SAD	Date Prep:	07.17.2020 18:30	Basis:	Dry Weight
Seq Number:	3132016			**SUB: E871002**	

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Ethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Hexachlorobutadiene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
2-Hexanone	ND	0.0500	U	mg/kg	07.18.2020 04:40	1
isopropylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Methylene Chloride	ND	0.0100	U	mg/kg	07.18.2020 04:40	1
4-Methyl-2-Pentanone	ND	0.0500	U	mg/kg	07.18.2020 04:40	1
Naphthalene	ND	0.0100	U	mg/kg	07.18.2020 04:40	1
n-Propylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Styrene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,1,1,2-Tetrachloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,1,2,2-Tetrachloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Tetrachloroethylene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Toluene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,2,3-Trichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,2,4-Trichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,1,2-Trichloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,1,1-Trichloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Trichloroethene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Trichlorofluoromethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,2,3-Trichloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,2,4-Trimethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,3,5-Trimethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Vinyl Acetate	ND	0.0250	U	mg/kg	07.18.2020 04:40	1
Vinyl Chloride	ND	0.0100	U	mg/kg	07.18.2020 04:40	1
o-Xylene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
m,p-Xylenes	ND	0.0100	U	mg/kg	07.18.2020 04:40	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	104	%	53-142	07.18.2020 04:40	
1,2-Dichloroethane-D4	17060-07-0	110	%	56-150	07.18.2020 04:40	
Toluene-D8	2037-26-5	92	%	70-130	07.18.2020 04:40	
4-Bromofluorobenzene	460-00-4	103	%	68-152	07.18.2020 04:40	

Project: Wauhoma Project

Certificate of Analytical Results 667009

Spectrum Environmental Services, Alabaster, AL

Wauhoma Project

Sample Id: **SB-3** Matrix: Soil Date Received: 07.11.2020 11:10
Lab Sample Id: 667009-003 Date Collected: 07.09.2020 14:00 Sample Depth: 16 ft

Analytical Method: VOCs By SW846 8260C Prep Method: SW5035A
Tech: SAD % Moisture: 27.28
Analyst: SAD Date Prep: 07.17.2020 18:30 Basis: Dry Weight
Seq Number: 3132016 **SUB: E871002**

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Acetone	ND	0.100	U	mg/kg	07.18.2020 05:01	1
Acrolein	ND	0.100	U	mg/kg	07.18.2020 05:01	1
Acrylonitrile	ND	0.0500	U	mg/kg	07.18.2020 05:01	1
Benzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Bromobenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Bromochloromethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Bromodichloromethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Bromoform	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Bromomethane	ND	0.0100	U	mg/kg	07.18.2020 05:01	1
2-Butanone	ND	0.100	U	mg/kg	07.18.2020 05:01	1
tert-Butylbenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Sec-Butylbenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
n-Butylbenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Carbon Disulfide	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Carbon Tetrachloride	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Chlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Chloroethane	ND	0.0100	U	mg/kg	07.18.2020 05:01	1
Chloroform	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Chloromethane	ND	0.0100	U	mg/kg	07.18.2020 05:01	1
2-Chlorotoluene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
4-Chlorotoluene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
p-Cymene (p-Isopropyltoluene)	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,2-Dibromo-3-Chloropropane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Dibromochloromethane	ND	0.0100	U	mg/kg	07.18.2020 05:01	1
1,2-Dibromoethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Dibromomethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,2-Dichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,3-Dichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,4-Dichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Dichlorodifluoromethane	ND	0.0100	U	mg/kg	07.18.2020 05:01	1
1,2-Dichloroethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,1-Dichloroethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
trans-1,2-dichloroethene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
cis-1,2-Dichloroethene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,1-Dichloroethene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
2,2-Dichloropropane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,3-Dichloropropane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,2-Dichloropropane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
trans-1,3-dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,1-Dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
cis-1,3-Dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1

Project: Wauhoma Project

Certificate of Analytical Results 667009

Spectrum Environmental Services, Alabaster, AL

Wauhoma Project

Sample Id:	**SB-3**	Matrix:	Soil	Date Received:	07.11.2020 11:10
Lab Sample Id:	667009-003	Date Collected:	07.09.2020 14:00	Sample Depth:	16 ft

Analytical Method:	VOCs By SW846 8260C			Prep Method:	SW5035A
Tech:	SAD			% Moisture:	27.28
Analyst:	SAD	Date Prep:	07.17.2020 18:30	Basis:	Dry Weight
Seq Number:	3132016			**SUB: E871002**	

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Ethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Hexachlorobutadiene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
2-Hexanone	ND	0.0500	U	mg/kg	07.18.2020 05:01	1
isopropylbenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Methylene Chloride	ND	0.0100	U	mg/kg	07.18.2020 05:01	1
4-Methyl-2-Pentanone	ND	0.0500	U	mg/kg	07.18.2020 05:01	1
Naphthalene	ND	0.0100	U	mg/kg	07.18.2020 05:01	1
n-Propylbenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Styrene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,1,1,2-Tetrachloroethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,1,2,2-Tetrachloroethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Tetrachloroethylene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Toluene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,2,3-Trichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,2,4-Trichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,1,2-Trichloroethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,1,1-Trichloroethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Trichloroethene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Trichlorofluoromethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,2,3-Trichloropropane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,2,4-Trimethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,3,5-Trimethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Vinyl Acetate	ND	0.0250	U	mg/kg	07.18.2020 05:01	1
Vinyl Chloride	ND	0.0100	U	mg/kg	07.18.2020 05:01	1
o-Xylene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
m,p-Xylenes	ND	0.0100	U	mg/kg	07.18.2020 05:01	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	103	%	53-142	07.18.2020 05:01	
1,2-Dichloroethane-D4	17060-07-0	107	%	56-150	07.18.2020 05:01	
Toluene-D8	2037-26-5	93	%	70-130	07.18.2020 05:01	
4-Bromofluorobenzene	460-00-4	104	%	68-152	07.18.2020 05:01	

Project: Wauhoma Project

Certificate of Analytical Results 667009

Spectrum Environmental Services, Alabaster, AL

Wauhoma Project

Sample Id: **SB-1 GW** Matrix: Ground Water Date Received: 07.11.2020 11:10

Lab Sample Id: 667009-004 Date Collected: 07.09.2020 10:00

Analytical Method: VOCs by SW-846 8260C Prep Method: SW5030B

Tech: EZA % Moisture:

Analyst: EZA Date Prep: 07.15.2020 17:30

Seq Number: 3131832 **SUB: E871002**

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Acetone	ND	50.0	U	ug/L	07.15.2020 23:20	1
Acrolein	ND	25.0	U	ug/L	07.15.2020 23:20	1
Acrylonitrile	ND	25.0	U	ug/L	07.15.2020 23:20	1
Benzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Bromobenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Bromochloromethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
Bromodichloromethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
Bromoform	ND	2.00	U	ug/L	07.15.2020 23:20	1
Bromomethane	ND	5.00	U	ug/L	07.15.2020 23:20	1
2-Butanone	ND	50.0	U	ug/L	07.15.2020 23:20	1
n-Butylbenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Sec-Butylbenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
tert-Butylbenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Carbon Disulfide	ND	2.00	U	ug/L	07.15.2020 23:20	1
Carbon Tetrachloride	ND	1.00	U	ug/L	07.15.2020 23:20	1
Chlorobenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Chloroethane	ND	5.00	U	ug/L	07.15.2020 23:20	1
Chloroform	ND	1.00	U	ug/L	07.15.2020 23:20	1
Chloromethane	ND	5.00	U	ug/L	07.15.2020 23:20	1
2-Chlorotoluene	ND	1.00	U	ug/L	07.15.2020 23:20	1
4-Chlorotoluene	ND	1.00	U	ug/L	07.15.2020 23:20	1
p-Cymene (p-Isopropyltoluene)	ND	1.00	U	ug/L	07.15.2020 23:20	1
Dibromochloromethane	ND	5.00	U	ug/L	07.15.2020 23:20	1
1,2-Dibromo-3-Chloropropane	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,2-Dibromoethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
Dibromomethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,2-Dichlorobenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,3-Dichlorobenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,4-Dichlorobenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Dichlorodifluoromethane	ND	5.00	U	ug/L	07.15.2020 23:20	1
1,1-Dichloroethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,2-Dichloroethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,1-Dichloroethene	ND	1.00	U	ug/L	07.15.2020 23:20	1
cis-1,2-Dichloroethene	ND	1.00	U	ug/L	07.15.2020 23:20	1
trans-1,2-dichloroethene	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,2-Dichloropropane	ND	2.00	U	ug/L	07.15.2020 23:20	1
1,3-Dichloropropane	ND	2.00	U	ug/L	07.15.2020 23:20	1
2,2-Dichloropropane	ND	2.00	U	ug/L	07.15.2020 23:20	1
1,1-Dichloropropene	ND	1.00	U	ug/L	07.15.2020 23:20	1
cis-1,3-Dichloropropene	ND	2.00	U	ug/L	07.15.2020 23:20	1
trans-1,3-dichloropropene	ND	2.00	U	ug/L	07.15.2020 23:20	1

Project: Wauhoma Project

Certificate of Analytical Results 667009

Spectrum Environmental Services, Alabaster, AL

Wauhoma Project

Sample Id: **SB-1 GW** Matrix: Ground Water Date Received: 07.11.2020 11:10

Lab Sample Id: 667009-004 Date Collected: 07.09.2020 10:00

Analytical Method: VOCs by SW-846 8260C Prep Method: SW5030B

Tech: EZA % Moisture:

Analyst: EZA Date Prep: 07.15.2020 17:30

Seq Number: 3131832 **SUB: E871002**

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Ethylbenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Hexachlorobutadiene	ND	5.00	U	ug/L	07.15.2020 23:20	1
2-Hexanone	ND	25.0	U	ug/L	07.15.2020 23:20	1
isopropylbenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Methylene Chloride	ND	5.00	U	ug/L	07.15.2020 23:20	1
4-Methyl-2-Pentanone	ND	25.0	U	ug/L	07.15.2020 23:20	1
Naphthalene	ND	5.00	U	ug/L	07.15.2020 23:20	1
n-Propylbenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Styrene	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,1,1,2-Tetrachloroethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,1,2,2-Tetrachloroethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
Tetrachloroethylene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Toluene	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,2,3-Trichlorobenzene	ND	5.00	U	ug/L	07.15.2020 23:20	1
1,2,4-Trichlorobenzene	ND	5.00	U	ug/L	07.15.2020 23:20	1
1,1,1-Trichloroethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,1,2-Trichloroethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
Trichloroethene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Trichlorofluoromethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,2,3-Trichloropropane	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,2,4-Trimethylbenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,3,5-Trimethylbenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
o-Xylene	ND	1.00	U	ug/L	07.15.2020 23:20	1
m,p-Xylenes	ND	2.00	U	ug/L	07.15.2020 23:20	1
Vinyl Acetate	ND	25.0	U	ug/L	07.15.2020 23:20	1
Vinyl Chloride	ND	1.00	U	ug/L	07.15.2020 23:20	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	104	%	75-131	07.15.2020 23:20	
1,2-Dichloroethane-D4	17060-07-0	105	%	63-144	07.15.2020 23:20	
Toluene-D8	2037-26-5	102	%	80-117	07.15.2020 23:20	
4-Bromofluorobenzene	460-00-4	104	%	74-124	07.15.2020 23:20	

Project: Wauhoma Project

Certificate of Analytical Results 667009

Spectrum Environmental Services, Alabaster, AL

Wauhoma Project

Sample Id: **SB-3 GW** Matrix: Ground Water Date Received: 07.11.2020 11:10

Lab Sample Id: 667009-005 Date Collected: 07.09.2020 15:00

Analytical Method: VOCs by SW-846 8260C Prep Method: SW5030B

Tech: EZA % Moisture:

Analyst: EZA Date Prep: 07.15.2020 17:30

Seq Number: 3131832 **SUB: E871002**

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Acetone	ND	50.0	U	ug/L	07.15.2020 23:43	1
Acrolein	ND	25.0	U	ug/L	07.15.2020 23:43	1
Acrylonitrile	ND	25.0	U	ug/L	07.15.2020 23:43	1
Benzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Bromobenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Bromochloromethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
Bromodichloromethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
Bromoform	ND	2.00	U	ug/L	07.15.2020 23:43	1
Bromomethane	ND	5.00	U	ug/L	07.15.2020 23:43	1
2-Butanone	ND	50.0	U	ug/L	07.15.2020 23:43	1
n-Butylbenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Sec-Butylbenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
tert-Butylbenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Carbon Disulfide	ND	2.00	U	ug/L	07.15.2020 23:43	1
Carbon Tetrachloride	ND	1.00	U	ug/L	07.15.2020 23:43	1
Chlorobenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Chloroethane	ND	5.00	U	ug/L	07.15.2020 23:43	1
Chloroform	ND	1.00	U	ug/L	07.15.2020 23:43	1
Chloromethane	ND	5.00	U	ug/L	07.15.2020 23:43	1
2-Chlorotoluene	ND	1.00	U	ug/L	07.15.2020 23:43	1
4-Chlorotoluene	ND	1.00	U	ug/L	07.15.2020 23:43	1
p-Cymene (p-Isopropyltoluene)	ND	1.00	U	ug/L	07.15.2020 23:43	1
Dibromochloromethane	ND	5.00	U	ug/L	07.15.2020 23:43	1
1,2-Dibromo-3-Chloropropane	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,2-Dibromoethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
Dibromomethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,2-Dichlorobenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,3-Dichlorobenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,4-Dichlorobenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Dichlorodifluoromethane	ND	5.00	U	ug/L	07.15.2020 23:43	1
1,1-Dichloroethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,2-Dichloroethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,1-Dichloroethene	ND	1.00	U	ug/L	07.15.2020 23:43	1
cis-1,2-Dichloroethene	ND	1.00	U	ug/L	07.15.2020 23:43	1
trans-1,2-dichloroethene	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,2-Dichloropropane	ND	2.00	U	ug/L	07.15.2020 23:43	1
1,3-Dichloropropane	ND	2.00	U	ug/L	07.15.2020 23:43	1
2,2-Dichloropropane	ND	2.00	U	ug/L	07.15.2020 23:43	1
1,1-Dichloropropene	ND	1.00	U	ug/L	07.15.2020 23:43	1
cis-1,3-Dichloropropene	ND	2.00	U	ug/L	07.15.2020 23:43	1
trans-1,3-dichloropropene	ND	2.00	U	ug/L	07.15.2020 23:43	1

Project: Wauhoma Project

Certificate of Analytical Results 667009

Spectrum Environmental Services, Alabaster, AL

Wauhoma Project

Sample Id: **SB-3 GW** Matrix: Ground Water Date Received: 07.11.2020 11:10
Lab Sample Id: 667009-005 Date Collected: 07.09.2020 15:00

Analytical Method: VOCs by SW-846 8260C Prep Method: SW5030B
Tech: EZA % Moisture:
Analyst: EZA Date Prep: 07.15.2020 17:30
Seq Number: 3131832 **SUB: E871002**

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Ethylbenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Hexachlorobutadiene	ND	5.00	U	ug/L	07.15.2020 23:43	1
2-Hexanone	ND	25.0	U	ug/L	07.15.2020 23:43	1
isopropylbenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Methylene Chloride	ND	5.00	U	ug/L	07.15.2020 23:43	1
4-Methyl-2-Pentanone	ND	25.0	U	ug/L	07.15.2020 23:43	1
Naphthalene	ND	5.00	U	ug/L	07.15.2020 23:43	1
n-Propylbenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Styrene	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,1,1,2-Tetrachloroethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,1,2,2-Tetrachloroethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
Tetrachloroethylene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Toluene	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,2,3-Trichlorobenzene	ND	5.00	U	ug/L	07.15.2020 23:43	1
1,2,4-Trichlorobenzene	ND	5.00	U	ug/L	07.15.2020 23:43	1
1,1,1-Trichloroethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,1,2-Trichloroethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
Trichloroethene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Trichlorofluoromethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,2,3-Trichloropropane	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,2,4-Trimethylbenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,3,5-Trimethylbenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
o-Xylene	ND	1.00	U	ug/L	07.15.2020 23:43	1
m,p-Xylenes	ND	2.00	U	ug/L	07.15.2020 23:43	1
Vinyl Acetate	ND	25.0	U	ug/L	07.15.2020 23:43	1
Vinyl Chloride	ND	1.00	U	ug/L	07.15.2020 23:43	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	103	%	75-131	07.15.2020 23:43	
1,2-Dichloroethane-D4	17060-07-0	101	%	63-144	07.15.2020 23:43	
Toluene-D8	2037-26-5	96	%	80-117	07.15.2020 23:43	
4-Bromofluorobenzene	460-00-4	106	%	74-124	07.15.2020 23:43	

Project: Wauhoma Project

Certificate of Analytical Results 667009

Spectrum Environmental Services, Alabaster, AL

Wauhoma Project

Sample Id: **SB-2 GW** Matrix: Ground Water Date Received: 07.11.2020 11:10

Lab Sample Id: 667009-006 Date Collected: 07.10.2020 10:00

Analytical Method: VOCs by SW-846 8260C Prep Method: SW5030B

Tech: EZA % Moisture:

Analyst: EZA Date Prep: 07.15.2020 17:30

Seq Number: 3131832 **SUB: E871002**

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Acetone	ND	50.0	U	ug/L	07.16.2020 00:07	1
Acrolein	ND	25.0	U	ug/L	07.16.2020 00:07	1
Acrylonitrile	ND	25.0	U	ug/L	07.16.2020 00:07	1
Benzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Bromobenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Bromochloromethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
Bromodichloromethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
Bromoform	ND	2.00	U	ug/L	07.16.2020 00:07	1
Bromomethane	ND	5.00	U	ug/L	07.16.2020 00:07	1
2-Butanone	ND	50.0	U	ug/L	07.16.2020 00:07	1
n-Butylbenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Sec-Butylbenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
tert-Butylbenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Carbon Disulfide	ND	2.00	U	ug/L	07.16.2020 00:07	1
Carbon Tetrachloride	ND	1.00	U	ug/L	07.16.2020 00:07	1
Chlorobenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Chloroethane	ND	5.00	U	ug/L	07.16.2020 00:07	1
Chloroform	ND	1.00	U	ug/L	07.16.2020 00:07	1
Chloromethane	ND	5.00	U	ug/L	07.16.2020 00:07	1
2-Chlorotoluene	ND	1.00	U	ug/L	07.16.2020 00:07	1
4-Chlorotoluene	ND	1.00	U	ug/L	07.16.2020 00:07	1
p-Cymene (p-Isopropyltoluene)	ND	1.00	U	ug/L	07.16.2020 00:07	1
Dibromochloromethane	ND	5.00	U	ug/L	07.16.2020 00:07	1
1,2-Dibromo-3-Chloropropane	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,2-Dibromoethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
Dibromomethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,2-Dichlorobenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,3-Dichlorobenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,4-Dichlorobenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Dichlorodifluoromethane	ND	5.00	U	ug/L	07.16.2020 00:07	1
1,1-Dichloroethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,2-Dichloroethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,1-Dichloroethene	ND	1.00	U	ug/L	07.16.2020 00:07	1
cis-1,2-Dichloroethene	ND	1.00	U	ug/L	07.16.2020 00:07	1
trans-1,2-dichloroethene	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,2-Dichloropropane	ND	2.00	U	ug/L	07.16.2020 00:07	1
1,3-Dichloropropane	ND	2.00	U	ug/L	07.16.2020 00:07	1
2,2-Dichloropropane	ND	2.00	U	ug/L	07.16.2020 00:07	1
1,1-Dichloropropene	ND	1.00	U	ug/L	07.16.2020 00:07	1
cis-1,3-Dichloropropene	ND	2.00	U	ug/L	07.16.2020 00:07	1
trans-1,3-dichloropropene	ND	2.00	U	ug/L	07.16.2020 00:07	1

Project: Wauhoma Project

Certificate of Analytical Results 667009

Spectrum Environmental Services, Alabaster, AL

Wauhoma Project

Sample Id: **SB-2 GW** Matrix: Ground Water Date Received: 07.11.2020 11:10

Lab Sample Id: 667009-006 Date Collected: 07.10.2020 10:00

Analytical Method: VOCs by SW-846 8260C Prep Method: SW5030B

Tech: EZA % Moisture:

Analyst: EZA Date Prep: 07.15.2020 17:30

Seq Number: 3131832 **SUB: E871002**

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Ethylbenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Hexachlorobutadiene	ND	5.00	U	ug/L	07.16.2020 00:07	1
2-Hexanone	ND	25.0	U	ug/L	07.16.2020 00:07	1
isopropylbenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Methylene Chloride	ND	5.00	U	ug/L	07.16.2020 00:07	1
4-Methyl-2-Pentanone	ND	25.0	U	ug/L	07.16.2020 00:07	1
Naphthalene	ND	5.00	U	ug/L	07.16.2020 00:07	1
n-Propylbenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Styrene	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,1,1,2-Tetrachloroethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,1,2,2-Tetrachloroethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
Tetrachloroethylene	1.84	1.00		ug/L	07.16.2020 00:07	1
Toluene	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,2,3-Trichlorobenzene	ND	5.00	U	ug/L	07.16.2020 00:07	1
1,2,4-Trichlorobenzene	ND	5.00	U	ug/L	07.16.2020 00:07	1
1,1,1-Trichloroethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,1,2-Trichloroethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
Trichloroethene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Trichlorofluoromethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,2,3-Trichloropropane	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,2,4-Trimethylbenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,3,5-Trimethylbenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
o-Xylene	ND	1.00	U	ug/L	07.16.2020 00:07	1
m,p-Xylenes	ND	2.00	U	ug/L	07.16.2020 00:07	1
Vinyl Acetate	ND	25.0	U	ug/L	07.16.2020 00:07	1
Vinyl Chloride	ND	1.00	U	ug/L	07.16.2020 00:07	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	104	%	75-131	07.16.2020 00:07	
1,2-Dichloroethane-D4	17060-07-0	104	%	63-144	07.16.2020 00:07	
Toluene-D8	2037-26-5	100	%	80-117	07.16.2020 00:07	
4-Bromofluorobenzene	460-00-4	103	%	74-124	07.16.2020 00:07	

Project: Wauhoma Project

QC Summary 667009

Spectrum Environmental Services

Wauhoma Project

Analytical Method: **Percent Moisture by SM2540G**

Seq Number: 3131640 Matrix: Solid

MB Sample Id: 3131640-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Percent Moisture	0.0300	%	07.15.2020 11:45	

Analytical Method: **Percent Moisture by SM2540G**

Seq Number: 3131640 Matrix: Soil

Parent Sample Id: 666982-002 MD Sample Id: 666982-002 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	20.8	20.5	1	10	%	07.15.2020 11:45	

Analytical Method: **Percent Moisture by SM2540G**

Seq Number: 3131640 Matrix: Soil

Parent Sample Id: 666982-006 MD Sample Id: 666982-006 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	18.7	18.6	1	10	%	07.15.2020 11:45	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 667009

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Spectrum Environmental Services

Wauhoma Project

Analytical Method: **VOCs By SW846 8260C** Prep Method: SW5035A

Seq Number: 3132016 Matrix: Solid Date Prep: 07.17.2020

MB Sample Id: 7707610-1-BLK LCS Sample Id: 7707610-1-BKS LCSD Sample Id: 7707610-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acetone	<0.0111	0.250	0.306	122	0.283	113	50-150	8	25	mg/kg	07.17.2020 18:44	
Acrolein	<0.0396	0.250	0.252	101	0.229	92	50-150	10	25	mg/kg	07.17.2020 18:44	
Acrylonitrile	<0.00287	0.250	0.240	96	0.233	93	50-150	3	25	mg/kg	07.17.2020 18:44	
Benzene	<0.000207	0.0500	0.0516	103	0.0491	98	66-142	5	25	mg/kg	07.17.2020 18:44	
Bromobenzene	<0.000346	0.0500	0.0501	100	0.0471	94	75-125	6	25	mg/kg	07.17.2020 18:44	
Bromochloromethane	<0.000526	0.0500	0.0494	99	0.0453	91	60-140	9	25	mg/kg	07.17.2020 18:44	
Bromodichloromethane	<0.000251	0.0500	0.0519	104	0.0491	98	75-125	6	25	mg/kg	07.17.2020 18:44	
Bromoform	<0.00103	0.0500	0.0489	98	0.0472	94	75-125	4	25	mg/kg	07.17.2020 18:44	
Bromomethane	<0.000943	0.0500	0.0499	100	0.0506	101	60-140	1	25	mg/kg	07.17.2020 18:44	
2-Butanone	<0.00365	0.250	0.265	106	0.249	100	75-125	6	25	mg/kg	07.17.2020 18:44	
tert-Butylbenzene	<0.00128	0.0500	0.0530	106	0.0516	103	75-125	3	25	mg/kg	07.17.2020 18:44	
Sec-Butylbenzene	<0.000261	0.0500	0.0536	107	0.0523	105	75-125	2	25	mg/kg	07.17.2020 18:44	
n-Butylbenzene	<0.000274	0.0500	0.0524	105	0.0515	103	75-125	2	25	mg/kg	07.17.2020 18:44	
Carbon Disulfide	<0.000292	0.0500	0.0525	105	0.0496	99	60-140	6	25	mg/kg	07.17.2020 18:44	
Carbon Tetrachloride	<0.00164	0.0500	0.0576	115	0.0561	112	62-125	3	25	mg/kg	07.17.2020 18:44	
Chlorobenzene	<0.000237	0.0500	0.0506	101	0.0487	97	60-133	4	25	mg/kg	07.17.2020 18:44	
Chloroethane	<0.000444	0.0500	0.0510	102	0.0485	97	60-140	5	25	mg/kg	07.17.2020 18:44	
Chloroform	<0.000173	0.0500	0.0520	104	0.0494	99	74-125	5	25	mg/kg	07.17.2020 18:44	
Chloromethane	<0.000431	0.0500	0.0464	93	0.0437	87	60-140	6	25	mg/kg	07.17.2020 18:44	
2-Chlorotoluene	<0.000342	0.0500	0.0511	102	0.0490	98	73-125	4	25	mg/kg	07.17.2020 18:44	
4-Chlorotoluene	<0.000264	0.0500	0.0519	104	0.0497	99	74-125	4	25	mg/kg	07.17.2020 18:44	
p-Cymene (p-Isopropyltoluene)	<0.000319	0.0500	0.0523	105	0.0513	103	75-125	2	25	mg/kg	07.17.2020 18:44	
1,2-Dibromo-3-Chloropropane	<0.000704	0.0500	0.0492	98	0.0477	95	59-125	3	25	mg/kg	07.17.2020 18:44	
Dibromochloromethane	<0.000895	0.0500	0.0519	104	0.0487	97	73-125	6	25	mg/kg	07.17.2020 18:44	
1,2-Dibromoethane	<0.00104	0.0500	0.0520	104	0.0492	98	73-125	6	25	mg/kg	07.17.2020 18:44	
Dibromomethane	<0.000371	0.0500	0.0467	93	0.0450	90	69-127	4	25	mg/kg	07.17.2020 18:44	
1,2-Dichlorobenzene	<0.000288	0.0500	0.0510	102	0.0489	98	75-125	4	25	mg/kg	07.17.2020 18:44	
1,3-Dichlorobenzene	<0.000273	0.0500	0.0511	102	0.0491	98	75-125	4	25	mg/kg	07.17.2020 18:44	
1,4-Dichlorobenzene	<0.000214	0.0500	0.0505	101	0.0489	98	75-125	3	25	mg/kg	07.17.2020 18:44	
Dichlorodifluoromethane	<0.00111	0.0500	0.0488	98	0.0476	95	65-135	2	25	mg/kg	07.17.2020 18:44	
1,2-Dichloroethane	<0.000304	0.0500	0.0508	102	0.0478	96	68-127	6	25	mg/kg	07.17.2020 18:44	
1,1-Dichloroethane	<0.000376	0.0500	0.0530	106	0.0504	101	72-125	5	25	mg/kg	07.17.2020 18:44	
trans-1,2-dichloroethene	<0.000434	0.0500	0.0542	108	0.0515	103	75-125	5	25	mg/kg	07.17.2020 18:44	
cis-1,2-Dichloroethene	<0.000301	0.0500	0.0524	105	0.0489	98	75-125	7	25	mg/kg	07.17.2020 18:44	
1,1-Dichloroethene	<0.000277	0.0500	0.0533	107	0.0513	103	59-172	4	25	mg/kg	07.17.2020 18:44	
2,2-Dichloropropane	<0.000524	0.0500	0.0576	115	0.0550	110	75-125	5	25	mg/kg	07.17.2020 18:44	
1,3-Dichloropropane	<0.000409	0.0500	0.0530	106	0.0500	100	75-125	6	25	mg/kg	07.17.2020 18:44	
1,2-Dichloropropane	<0.000198	0.0500	0.0522	104	0.0494	99	74-125	6	25	mg/kg	07.17.2020 18:44	
trans-1,3-dichloropropene	<0.000909	0.0500	0.0513	103	0.0497	99	66-125	3	25	mg/kg	07.17.2020 18:44	
1,1-Dichloropropene	<0.000448	0.0500	0.0572	114	0.0558	112	75-125	2	25	mg/kg	07.17.2020 18:44	
cis-1,3-Dichloropropene	<0.000230	0.0500	0.0515	103	0.0481	96	74-125	7	25	mg/kg	07.17.2020 18:44	
Ethylbenzene	<0.000336	0.0500	0.0525	105	0.0502	100	75-125	4	25	mg/kg	07.17.2020 18:44	
Hexachlorobutadiene	<0.00200	0.0500	0.0548	110	0.0547	109	75-125	0	25	mg/kg	07.17.2020 18:44	
2-Hexanone	0.00378	0.250	0.253	101	0.250	100	75-125	1	25	mg/kg	07.17.2020 18:44	
isopropylbenzene	<0.000174	0.0500	0.0534	107	0.0515	103	75-125	4	25	mg/kg	07.17.2020 18:44	
Methylene Chloride	<0.00422	0.0500	0.0501	100	0.0471	94	75-125	6	25	mg/kg	07.17.2020 18:44	
4-Methyl-2-Pentanone	0.00369	0.250	0.240	96	0.239	96	60-140	0	25	mg/kg	07.17.2020 18:44	
Naphthalene	<0.00200	0.0500	0.0517	103	0.0522	104	70-130	1	25	mg/kg	07.17.2020 18:44	
n-Propylbenzene	<0.000286	0.0500	0.0527	105	0.0507	101	75-125	4	25	mg/kg	07.17.2020 18:44	
Styrene	<0.000205	0.0500	0.0540	108	0.0503	101	75-125	7	25	mg/kg	07.17.2020 18:44	

MS/MSD Percent Recovery	[D] = 100*(C-A) / B	LCS = Laboratory Control Sample	MS = Matrix Spike
Relative Percent Difference	RPD = 200* | (C-E) / (C+E) |	A = Parent Result	B = Spike Added
LCS/LCSD Recovery	[D] = 100 * (C) / [B]	C = MS/LCS Result	D = MSD/LCSD % Rec
Log Difference	Log Diff. = Log(Sample Duplicate) - Log(Original Sample)	E = MSD/LCSD Result	

QC Summary 667009

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Spectrum Environmental Services

Wauhoma Project

Analytical Method: **VOCs By SW846 8260C** Prep Method: SW5035A

Seq Number: 3132016 Matrix: Solid Date Prep: 07.17.2020

MB Sample Id: 7707610-1-BLK LCS Sample Id: 7707610-1-BKS LCSD Sample Id: 7707610-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1,2-Tetrachloroethane	<0.000267	0.0500	0.0524	105	0.0497	99	72-125	5	25	mg/kg	07.17.2020 18:44	
1,1,2,2-Tetrachloroethane	<0.000470	0.0500	0.0491	98	0.0471	94	74-125	4	25	mg/kg	07.17.2020 18:44	
Tetrachloroethylene	<0.000370	0.0500	0.0532	106	0.0514	103	71-125	3	25	mg/kg	07.17.2020 18:44	
Toluene	<0.00100	0.0500	0.0521	104	0.0499	100	59-139	4	25	mg/kg	07.17.2020 18:44	
1,2,3-Trichlorobenzene	<0.00200	0.0500	0.0557	111	0.0550	110	75-137	1	25	mg/kg	07.17.2020 18:44	
1,2,4-Trichlorobenzene	<0.00200	0.0500	0.0565	113	0.0545	109	75-135	4	25	mg/kg	07.17.2020 18:44	
1,1,2-Trichloroethane	<0.000392	0.0500	0.0537	107	0.0508	102	75-127	6	25	mg/kg	07.17.2020 18:44	
1,1,1-Trichloroethane	<0.000503	0.0500	0.0564	113	0.0542	108	75-125	4	25	mg/kg	07.17.2020 18:44	
Trichloroethene	<0.000494	0.0500	0.0530	106	0.0515	103	62-137	3	25	mg/kg	07.17.2020 18:44	
Trichlorofluoromethane	<0.000307	0.0500	0.0531	106	0.0513	103	67-125	3	25	mg/kg	07.17.2020 18:44	
1,2,3-Trichloropropane	<0.000450	0.0500	0.0522	104	0.0507	101	75-125	3	25	mg/kg	07.17.2020 18:44	
1,2,4-Trimethylbenzene	<0.000255	0.0500	0.0489	98	0.0477	95	75-125	2	25	mg/kg	07.17.2020 18:44	
1,3,5-Trimethylbenzene	<0.000289	0.0500	0.0509	102	0.0490	98	70-130	4	25	mg/kg	07.17.2020 18:44	
Vinyl Acetate	<0.00256	0.250	0.277	111	0.268	107	60-140	3	25	mg/kg	07.17.2020 18:44	
Vinyl Chloride	<0.000441	0.0500	0.0517	103	0.0494	99	60-140	5	25	mg/kg	07.17.2020 18:44	
o-Xylene	<0.000985	0.0500	0.0524	105	0.0497	99	75-125	5	25	mg/kg	07.17.2020 18:44	
m,p-Xylenes	<0.000800	0.100	0.105	105	0.102	102	75-125	3	25	mg/kg	07.17.2020 18:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	92		103		100		53-142	%	07.17.2020 18:44
1,2-Dichloroethane-D4	103		103		96		56-150	%	07.17.2020 18:44
Toluene-D8	98		102		101		70-130	%	07.17.2020 18:44
4-Bromofluorobenzene	105		100		99		68-152	%	07.17.2020 18:44

MS/MSD Percent Recovery	[D] = 100*(C-A) / B	LCS = Laboratory Control Sample	MS = Matrix Spike
Relative Percent Difference	RPD = 200* | (C-E) / (C+E) |	A = Parent Result	B = Spike Added
LCS/LCSD Recovery	[D] = 100 * (C) / [B]	C = MS/LCS Result	D = MSD/LCSD % Rec
Log Difference	Log Diff. = Log(Sample Duplicate) - Log(Original Sample)	E = MSD/LCSD Result	

QC Summary 667009

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Spectrum Environmental Services

Wauhoma Project

Analytical Method: **VOCs By SW846 8260C** Prep Method: SW5035A

Seq Number: 3132016 Matrix: Soil Date Prep: 07.17.2020

Parent Sample Id: 666905-005 MS Sample Id: 666905-005 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Acetone	<0.0107	0.242	0.0721	30	50-150	mg/kg	07.17.2020 19:26	X
Acrolein	<0.0383	0.242	0.0630	26	50-150	mg/kg	07.17.2020 19:26	X
Acrylonitrile	<0.00278	0.242	0.0583	24	50-150	mg/kg	07.17.2020 19:26	X
Benzene	<0.000200	0.0484	0.0322	67	66-142	mg/kg	07.17.2020 19:26	
Bromobenzene	<0.000335	0.0484	0.0224	46	75-125	mg/kg	07.17.2020 19:26	X
Bromochloromethane	<0.000509	0.0484	0.0217	45	60-140	mg/kg	07.17.2020 19:26	X
Bromodichloromethane	<0.000243	0.0484	0.0238	49	75-125	mg/kg	07.17.2020 19:26	X
Bromoform	<0.00100	0.0484	0.0137	28	75-125	mg/kg	07.17.2020 19:26	X
Bromomethane	<0.000913	0.0484	0.0353	73	60-140	mg/kg	07.17.2020 19:26	
2-Butanone	<0.00353	0.242	0.0704	29	75-125	mg/kg	07.17.2020 19:26	X
tert-Butylbenzene	<0.00124	0.0484	0.0349	72	75-125	mg/kg	07.17.2020 19:26	X
Sec-Butylbenzene	<0.000253	0.0484	0.0365	75	75-125	mg/kg	07.17.2020 19:26	
n-Butylbenzene	<0.000265	0.0484	0.0351	73	75-125	mg/kg	07.17.2020 19:26	X
Carbon Disulfide	<0.000283	0.0484	0.0412	85	60-140	mg/kg	07.17.2020 19:26	
Carbon Tetrachloride	<0.00159	0.0484	0.0448	93	62-125	mg/kg	07.17.2020 19:26	
Chlorobenzene	<0.000229	0.0484	0.0273	56	60-133	mg/kg	07.17.2020 19:26	X
Chloroethane	<0.000430	0.0484	0.0383	79	60-140	mg/kg	07.17.2020 19:26	
Chloroform	<0.000167	0.0484	0.0315	65	74-125	mg/kg	07.17.2020 19:26	X
Chloromethane	<0.000417	0.0484	0.0341	70	60-140	mg/kg	07.17.2020 19:26	
2-Chlorotoluene	<0.000331	0.0484	0.0297	61	73-125	mg/kg	07.17.2020 19:26	X
4-Chlorotoluene	<0.000255	0.0484	0.0284	59	74-125	mg/kg	07.17.2020 19:26	X
p-Cymene (p-Isopropyltoluene)	<0.000308	0.0484	0.0345	71	75-125	mg/kg	07.17.2020 19:26	X
1,2-Dibromo-3-Chloropropane	<0.000682	0.0484	0.0122	25	59-125	mg/kg	07.17.2020 19:26	X
Dibromochloromethane	<0.000866	0.0484	0.0177	37	73-125	mg/kg	07.17.2020 19:26	X
1,2-Dibromoethane	<0.00101	0.0484	0.0153	32	73-125	mg/kg	07.17.2020 19:26	X
Dibromomethane	<0.000359	0.0484	0.0173	36	69-127	mg/kg	07.17.2020 19:26	X
1,2-Dichlorobenzene	<0.000279	0.0484	0.0224	46	75-125	mg/kg	07.17.2020 19:26	X
1,3-Dichlorobenzene	<0.000264	0.0484	0.0251	52	75-125	mg/kg	07.17.2020 19:26	X
1,4-Dichlorobenzene	<0.000208	0.0484	0.0241	50	75-125	mg/kg	07.17.2020 19:26	X
Dichlorodifluoromethane	<0.00108	0.0484	0.0425	88	65-135	mg/kg	07.17.2020 19:26	
1,2-Dichloroethane	<0.000294	0.0484	0.0207	43	68-127	mg/kg	07.17.2020 19:26	X
1,1-Dichloroethane	<0.000364	0.0484	0.0353	73	72-125	mg/kg	07.17.2020 19:26	
trans-1,2-dichloroethene	<0.000420	0.0484	0.0388	80	75-125	mg/kg	07.17.2020 19:26	
cis-1,2-Dichloroethene	<0.000291	0.0484	0.0312	64	75-125	mg/kg	07.17.2020 19:26	X
1,1-Dichloroethene	<0.000268	0.0484	0.0427	88	59-172	mg/kg	07.17.2020 19:26	
2,2-Dichloropropane	<0.000508	0.0484	0.0424	88	75-125	mg/kg	07.17.2020 19:26	
1,3-Dichloropropane	<0.000396	0.0484	0.0170	35	75-125	mg/kg	07.17.2020 19:26	X
1,2-Dichloropropane	<0.000192	0.0484	0.0265	55	74-125	mg/kg	07.17.2020 19:26	X
trans-1,3-dichloropropene	<0.000881	0.0484	0.0174	36	66-125	mg/kg	07.17.2020 19:26	X
1,1-Dichloropropene	<0.000434	0.0484	0.0419	87	75-125	mg/kg	07.17.2020 19:26	
cis-1,3-Dichloropropene	<0.000222	0.0484	0.0220	45	74-125	mg/kg	07.17.2020 19:26	X
Ethylbenzene	<0.000325	0.0484	0.0327	68	75-125	mg/kg	07.17.2020 19:26	X
Hexachlorobutadiene	<0.00194	0.0484	0.0370	76	75-125	mg/kg	07.17.2020 19:26	
2-Hexanone	0.00362	0.242	0.0750	29	75-125	mg/kg	07.17.2020 19:26	X
isopropylbenzene	<0.000168	0.0484	0.0351	73	75-125	mg/kg	07.17.2020 19:26	X
Methylene Chloride	<0.00409	0.0484	0.0225	46	75-125	mg/kg	07.17.2020 19:26	X
4-Methyl-2-Pentanone	0.00415	0.242	0.0704	27	60-140	mg/kg	07.17.2020 19:26	X
Naphthalene	<0.00194	0.0484	0.0185	38	70-130	mg/kg	07.17.2020 19:26	X
n-Propylbenzene	<0.000277	0.0484	0.0346	71	75-125	mg/kg	07.17.2020 19:26	X
Styrene	<0.000199	0.0484	0.0269	56	75-125	mg/kg	07.17.2020 19:26	X

MS/MSD Percent Recovery	[D] = 100*(C-A) / B	LCS = Laboratory Control Sample	MS = Matrix Spike
Relative Percent Difference	RPD = 200* | (C-E) / (C+E) |	A = Parent Result	B = Spike Added
LCS/LCSD Recovery	[D] = 100 * (C) / [B]	C = MS/LCS Result	D = MSD/LCSD % Rec
Log Difference	Log Diff. = Log(Sample Duplicate) - Log(Original Sample)	E = MSD/LCSD Result	

QC Summary 667009

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Wauhoma Project

Analytical Method: **VOCs By SW846 8260C** Prep Method: SW5035A

Seq Number: 3132016 Matrix: Soil Date Prep: 07.17.2020

Parent Sample Id: 666905-005 MS Sample Id: 666905-005 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
1,1,1,2-Tetrachloroethane	<0.000258	0.0484	0.0237	49	72-125	mg/kg	07.17.2020 19:26	X
1,1,2,2-Tetrachloroethane	<0.000455	0.0484	0.0119	25	74-125	mg/kg	07.17.2020 19:26	X
Tetrachloroethylene	<0.000358	0.0484	0.0364	75	71-125	mg/kg	07.17.2020 19:26	
Toluene	<0.000968	0.0484	0.0316	65	59-139	mg/kg	07.17.2020 19:26	
1,2,3-Trichlorobenzene	<0.00194	0.0484	0.0230	48	75-137	mg/kg	07.17.2020 19:26	X
1,2,4-Trichlorobenzene	<0.00194	0.0484	0.0242	50	75-135	mg/kg	07.17.2020 19:26	X
1,1,2-Trichloroethane	<0.000380	0.0484	0.0165	34	75-127	mg/kg	07.17.2020 19:26	X
1,1,1-Trichloroethane	<0.000487	0.0484	0.0427	88	75-125	mg/kg	07.17.2020 19:26	
Trichloroethene	<0.000478	0.0484	0.0360	74	62-137	mg/kg	07.17.2020 19:26	
Trichlorofluoromethane	<0.000298	0.0484	0.0454	94	67-125	mg/kg	07.17.2020 19:26	
1,2,3-Trichloropropane	<0.000435	0.0484	0.0136	28	75-125	mg/kg	07.17.2020 19:26	X
1,2,4-Trimethylbenzene	<0.000247	0.0484	0.0274	57	75-125	mg/kg	07.17.2020 19:26	X
1,3,5-Trimethylbenzene	<0.000280	0.0484	0.0307	63	70-130	mg/kg	07.17.2020 19:26	X
Vinyl Acetate	<0.00248	0.242	0.0777	32	60-140	mg/kg	07.17.2020 19:26	X
Vinyl Chloride	<0.000427	0.0484	0.0421	87	60-140	mg/kg	07.17.2020 19:26	
o-Xylene	<0.000954	0.0484	0.0295	61	75-125	mg/kg	07.17.2020 19:26	X
m,p-Xylenes	<0.000775	0.0968	0.0651	67	75-125	mg/kg	07.17.2020 19:26	X

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Dibromofluoromethane	113		53-142	%	07.17.2020 19:26
1,2-Dichloroethane-D4	116		56-150	%	07.17.2020 19:26
Toluene-D8	98		70-130	%	07.17.2020 19:26
4-Bromofluorobenzene	100		68-152	%	07.17.2020 19:26

MS/MSD Percent Recovery	[D] = 100*(C-A) / B	LCS = Laboratory Control Sample	MS = Matrix Spike
Relative Percent Difference	RPD = 200* | (C-E) / (C+E) |	A = Parent Result	B = Spike Added
LCS/LCSD Recovery	[D] = 100 * (C) / [B]	C = MS/LCS Result	D = MSD/LCSD % Rec
Log Difference	Log Diff. = Log(Sample Duplicate) - Log(Original Sample)	E = MSD/LCSD Result	

QC Summary 667009

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Wauhoma Project

Analytical Method: **VOCs by SW-846 8260C** Prep Method: SW5030B

Seq Number: 3131832 Matrix: Water Date Prep: 07.15.2020

MB Sample Id: 7707490-1-BLK LCS Sample Id: 7707490-1-BKS LCSD Sample Id: 7707490-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acetone	<50.0	250	242	97	248	99	60-140	2	25	ug/L	07.15.2020 18:13	
Acrolein	<25.0	250	273	109	274	110	50-150	0	25	ug/L	07.15.2020 18:13	
Acrylonitrile	<25.0	250	258	103	260	104	50-150	1	25	ug/L	07.15.2020 18:13	
Benzene	<1.00	50.0	49.2	98	51.3	103	66-142	4	25	ug/L	07.15.2020 18:13	
Bromobenzene	<1.00	50.0	47.6	95	51.1	102	75-125	7	25	ug/L	07.15.2020 18:13	
Bromochloromethane	<1.00	50.0	46.1	92	48.5	97	60-140	5	25	ug/L	07.15.2020 18:13	
Bromodichloromethane	<1.00	50.0	50.2	100	53.0	106	75-125	5	25	ug/L	07.15.2020 18:13	
Bromoform	<2.00	50.0	50.5	101	53.5	107	75-125	6	25	ug/L	07.15.2020 18:13	
Bromomethane	<5.00	50.0	41.5	83	43.4	87	60-140	4	25	ug/L	07.15.2020 18:13	
2-Butanone	<50.0	250	271	108	278	111	60-140	3	25	ug/L	07.15.2020 18:13	
n-Butylbenzene	<1.00	50.0	49.0	98	53.1	106	75-125	8	25	ug/L	07.15.2020 18:13	
Sec-Butylbenzene	<1.00	50.0	49.4	99	53.5	107	75-125	8	25	ug/L	07.15.2020 18:13	
tert-Butylbenzene	<1.00	50.0	49.4	99	53.6	107	75-125	8	25	ug/L	07.15.2020 18:13	
Carbon Disulfide	<2.00	50.0	40.7	81	41.5	83	60-140	2	25	ug/L	07.15.2020 18:13	
Carbon Tetrachloride	<1.00	50.0	49.6	99	50.6	101	62-125	2	25	ug/L	07.15.2020 18:13	
Chlorobenzene	<1.00	50.0	48.8	98	51.8	104	60-133	6	25	ug/L	07.15.2020 18:13	
Chloroethane	<5.00	50.0	49.0	98	50.6	101	60-140	3	25	ug/L	07.15.2020 18:13	
Chloroform	<1.00	50.0	47.9	96	49.7	99	70-130	4	25	ug/L	07.15.2020 18:13	
Chloromethane	<5.00	50.0	46.4	93	48.0	96	60-140	3	25	ug/L	07.15.2020 18:13	
2-Chlorotoluene	<1.00	50.0	47.9	96	51.5	103	73-125	7	25	ug/L	07.15.2020 18:13	
4-Chlorotoluene	<1.00	50.0	47.6	95	51.1	102	74-125	7	25	ug/L	07.15.2020 18:13	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	49.1	98	53.6	107	75-125	9	25	ug/L	07.15.2020 18:13	
Dibromochloromethane	<5.00	50.0	50.5	101	54.0	108	73-125	7	25	ug/L	07.15.2020 18:13	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	46.8	94	48.3	97	59-125	3	25	ug/L	07.15.2020 18:13	
1,2-Dibromoethane	<1.00	50.0	49.8	100	52.5	105	73-125	5	25	ug/L	07.15.2020 18:13	
Dibromomethane	<1.00	50.0	48.5	97	50.8	102	69-127	5	25	ug/L	07.15.2020 18:13	
1,2-Dichlorobenzene	<1.00	50.0	46.8	94	51.9	104	75-125	10	25	ug/L	07.15.2020 18:13	
1,3-Dichlorobenzene	<1.00	50.0	47.0	94	51.0	102	75-125	8	25	ug/L	07.15.2020 18:13	
1,4-Dichlorobenzene	<1.00	50.0	46.6	93	50.5	101	75-125	8	25	ug/L	07.15.2020 18:13	
Dichlorodifluoromethane	<5.00	50.0	56.5	113	55.9	112	60-140	1	25	ug/L	07.15.2020 18:13	
1,1-Dichloroethane	<1.00	50.0	48.7	97	49.9	100	72-125	2	25	ug/L	07.15.2020 18:13	
1,2-Dichloroethane	<1.00	50.0	47.8	96	49.8	100	68-127	4	25	ug/L	07.15.2020 18:13	
1,1-Dichloroethene	<1.00	50.0	47.8	96	48.6	97	59-172	2	25	ug/L	07.15.2020 18:13	
cis-1,2-Dichloroethene	<1.00	50.0	48.5	97	50.4	101	75-125	4	25	ug/L	07.15.2020 18:13	
trans-1,2-dichloroethene	<1.00	50.0	46.8	94	48.5	97	75-125	4	25	ug/L	07.15.2020 18:13	
1,2-Dichloropropane	<2.00	50.0	51.3	103	54.6	109	74-125	6	25	ug/L	07.15.2020 18:13	
1,3-Dichloropropane	<2.00	50.0	51.1	102	54.6	109	75-125	7	25	ug/L	07.15.2020 18:13	
2,2-Dichloropropane	<2.00	50.0	52.2	104	53.0	106	75-125	2	25	ug/L	07.15.2020 18:13	
1,1-Dichloropropene	<1.00	50.0	50.2	100	50.8	102	75-125	1	25	ug/L	07.15.2020 18:13	
cis-1,3-Dichloropropene	<2.00	50.0	52.8	106	55.8	112	74-125	6	25	ug/L	07.15.2020 18:13	
trans-1,3-dichloropropene	<2.00	50.0	51.1	102	54.4	109	66-125	6	25	ug/L	07.15.2020 18:13	
Ethylbenzene	<1.00	50.0	49.4	99	52.2	104	75-125	6	25	ug/L	07.15.2020 18:13	
Hexachlorobutadiene	<5.00	50.0	49.9	100	55.2	110	75-125	10	25	ug/L	07.15.2020 18:13	
2-Hexanone	<25.0	250	250	100	266	106	60-140	6	25	ug/L	07.15.2020 18:13	
isopropylbenzene	<1.00	50.0	51.5	103	54.6	109	75-125	6	25	ug/L	07.15.2020 18:13	
Methylene Chloride	<5.00	50.0	46.3	93	48.2	96	75-125	4	25	ug/L	07.15.2020 18:13	
4-Methyl-2-Pentanone	<25.0	250	265	106	273	109	60-140	3	25	ug/L	07.15.2020 18:13	
Naphthalene	<5.00	50.0	54.3	109	60.4	121	70-130	11	25	ug/L	07.15.2020 18:13	
n-Propylbenzene	<1.00	50.0	48.8	98	52.6	105	75-125	7	25	ug/L	07.15.2020 18:13	
Styrene	<1.00	50.0	50.5	101	53.9	108	75-125	7	25	ug/L	07.15.2020 18:13	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 667009

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Wauhoma Project

Analytical Method: **VOCs by SW-846 8260C** Prep Method: SW5030B

Seq Number: 3131832 Matrix: Water Date Prep: 07.15.2020

MB Sample Id: 7707490-1-BLK LCS Sample Id: 7707490-1-BKS LCSD Sample Id: 7707490-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1,2-Tetrachloroethane	<1.00	50.0	51.3	103	53.6	107	72-125	4	25	ug/L	07.15.2020 18:13	
1,1,2,2-Tetrachloroethane	<1.00	50.0	49.1	98	52.6	105	74-125	7	25	ug/L	07.15.2020 18:13	
Tetrachloroethylene	<1.00	50.0	48.2	96	50.6	101	71-125	5	25	ug/L	07.15.2020 18:13	
Toluene	<1.00	50.0	47.8	96	50.6	101	59-139	6	25	ug/L	07.15.2020 18:13	
1,2,3-Trichlorobenzene	<5.00	50.0	53.5	107	60.5	121	75-137	12	25	ug/L	07.15.2020 18:13	
1,2,4-Trichlorobenzene	<5.00	50.0	51.0	102	56.6	113	75-135	10	25	ug/L	07.15.2020 18:13	
1,1,1-Trichloroethane	<1.00	50.0	49.8	100	51.0	102	75-125	2	25	ug/L	07.15.2020 18:13	
1,1,2-Trichloroethane	<1.00	50.0	51.3	103	53.6	107	75-127	4	25	ug/L	07.15.2020 18:13	
Trichloroethene	<1.00	50.0	50.1	100	52.3	105	62-137	4	25	ug/L	07.15.2020 18:13	
Trichlorofluoromethane	<1.00	50.0	50.8	102	50.7	101	60-140	0	25	ug/L	07.15.2020 18:13	
1,2,3-Trichloropropane	<1.00	50.0	48.0	96	51.3	103	75-125	7	25	ug/L	07.15.2020 18:13	
1,2,4-Trimethylbenzene	<1.00	50.0	47.7	95	52.0	104	75-125	9	25	ug/L	07.15.2020 18:13	
1,3,5-Trimethylbenzene	<1.00	50.0	48.4	97	51.8	104	70-125	7	25	ug/L	07.15.2020 18:13	
o-Xylene	<1.00	50.0	49.2	98	52.6	105	75-125	7	25	ug/L	07.15.2020 18:13	
m,p-Xylenes	<2.00	100	97.6	98	104	104	75-125	6	25	ug/L	07.15.2020 18:13	
Vinyl Acetate	<25.0	250	281	112	292	117	60-140	4	25	ug/L	07.15.2020 18:13	
Vinyl Chloride	<1.00	50.0	49.1	98	48.9	98	60-140	0	25	ug/L	07.15.2020 18:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	102		96		95		75-131	%	07.15.2020 18:13
1,2-Dichloroethane-D4	103		100		98		63-144	%	07.15.2020 18:13
Toluene-D8	99		99		99		80-117	%	07.15.2020 18:13
4-Bromofluorobenzene	102		97		99		74-124	%	07.15.2020 18:13

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 667009

eurofins | Xenco

Spectrum Environmental Services

Wauhoma Project

Analytical Method: **VOCs by SW-846 8260C** Prep Method: SW5030B

Seq Number: 3131832 Matrix: Ground Water Date Prep: 07.15.2020

Parent Sample Id: 666982-010 MS Sample Id: 666982-010 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Acetone	<50.0	250	192	77	60-140	ug/L	07.15.2020 19:00	
Acrolein	<25.0	250	327	131	50-150	ug/L	07.15.2020 19:00	
Acrylonitrile	<25.0	250	251	100	50-150	ug/L	07.15.2020 19:00	
Benzene	<1.00	50.0	45.1	90	66-142	ug/L	07.15.2020 19:00	
Bromobenzene	<1.00	50.0	45.2	90	75-125	ug/L	07.15.2020 19:00	
Bromochloromethane	<1.00	50.0	42.9	86	60-140	ug/L	07.15.2020 19:00	
Bromodichloromethane	<1.00	50.0	45.5	91	75-125	ug/L	07.15.2020 19:00	
Bromoform	<2.00	50.0	48.8	98	75-125	ug/L	07.15.2020 19:00	
Bromomethane	<5.00	50.0	38.5	77	60-140	ug/L	07.15.2020 19:00	
2-Butanone	<50.0	250	244	98	60-140	ug/L	07.15.2020 19:00	
n-Butylbenzene	<1.00	50.0	46.7	93	75-125	ug/L	07.15.2020 19:00	
Sec-Butylbenzene	<1.00	50.0	47.1	94	75-125	ug/L	07.15.2020 19:00	
tert-Butylbenzene	<1.00	50.0	47.4	95	75-125	ug/L	07.15.2020 19:00	
Carbon Disulfide	<2.00	50.0	37.6	75	60-140	ug/L	07.15.2020 19:00	
Carbon Tetrachloride	<1.00	50.0	46.3	93	62-125	ug/L	07.15.2020 19:00	
Chlorobenzene	<1.00	50.0	45.0	90	60-133	ug/L	07.15.2020 19:00	
Chloroethane	<5.00	50.0	46.0	92	60-140	ug/L	07.15.2020 19:00	
Chloroform	<1.00	50.0	44.0	88	70-130	ug/L	07.15.2020 19:00	
Chloromethane	<5.00	50.0	43.9	88	60-140	ug/L	07.15.2020 19:00	
2-Chlorotoluene	<1.00	50.0	44.8	90	73-125	ug/L	07.15.2020 19:00	
4-Chlorotoluene	<1.00	50.0	44.5	89	74-125	ug/L	07.15.2020 19:00	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	46.4	93	75-125	ug/L	07.15.2020 19:00	
Dibromochloromethane	<5.00	50.0	47.5	95	73-125	ug/L	07.15.2020 19:00	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	46.6	93	59-125	ug/L	07.15.2020 19:00	
1,2-Dibromoethane	<1.00	50.0	47.3	95	73-125	ug/L	07.15.2020 19:00	
Dibromomethane	<1.00	50.0	44.4	89	69-127	ug/L	07.15.2020 19:00	
1,2-Dichlorobenzene	<1.00	50.0	45.5	91	75-125	ug/L	07.15.2020 19:00	
1,3-Dichlorobenzene	<1.00	50.0	44.4	89	75-125	ug/L	07.15.2020 19:00	
1,4-Dichlorobenzene	<1.00	50.0	43.9	88	75-125	ug/L	07.15.2020 19:00	
Dichlorodifluoromethane	<5.00	50.0	51.7	103	60-140	ug/L	07.15.2020 19:00	
1,1-Dichloroethane	<1.00	50.0	44.0	88	72-125	ug/L	07.15.2020 19:00	
1,2-Dichloroethane	<1.00	50.0	43.2	86	68-127	ug/L	07.15.2020 19:00	
1,1-Dichloroethene	<1.00	50.0	44.0	88	59-172	ug/L	07.15.2020 19:00	
cis-1,2-Dichloroethene	<1.00	50.0	44.6	89	75-125	ug/L	07.15.2020 19:00	
trans-1,2-dichloroethene	<1.00	50.0	43.3	87	75-125	ug/L	07.15.2020 19:00	
1,2-Dichloropropane	<2.00	50.0	46.5	93	74-125	ug/L	07.15.2020 19:00	
1,3-Dichloropropane	<2.00	50.0	48.2	96	75-125	ug/L	07.15.2020 19:00	
2,2-Dichloropropane	<2.00	50.0	48.4	97	75-125	ug/L	07.15.2020 19:00	
1,1-Dichloropropene	<1.00	50.0	46.2	92	75-125	ug/L	07.15.2020 19:00	
cis-1,3-Dichloropropene	<2.00	50.0	47.9	96	74-125	ug/L	07.15.2020 19:00	
trans-1,3-dichloropropene	<2.00	50.0	47.1	94	66-125	ug/L	07.15.2020 19:00	
Ethylbenzene	<1.00	50.0	46.1	92	75-125	ug/L	07.15.2020 19:00	
Hexachlorobutadiene	<5.00	50.0	49.2	98	75-125	ug/L	07.15.2020 19:00	
2-Hexanone	<25.0	250	238	95	60-140	ug/L	07.15.2020 19:00	
isopropylbenzene	<1.00	50.0	47.7	95	75-125	ug/L	07.15.2020 19:00	
Methylene Chloride	<5.00	50.0	41.4	83	75-125	ug/L	07.15.2020 19:00	
4-Methyl-2-Pentanone	<25.0	250	257	103	60-140	ug/L	07.15.2020 19:00	
Naphthalene	<5.00	50.0	53.9	108	70-130	ug/L	07.15.2020 19:00	
n-Propylbenzene	<1.00	50.0	45.7	91	75-125	ug/L	07.15.2020 19:00	
Styrene	<1.00	50.0	46.1	92	75-125	ug/L	07.15.2020 19:00	

MS/MSD Percent Recovery	[D] = 100*(C-A) / B	LCS = Laboratory Control Sample	MS = Matrix Spike
Relative Percent Difference	RPD = 200* | (C-E) / (C+E) |	A = Parent Result	B = Spike Added
LCS/LCSD Recovery	[D] = 100 * (C) / [B]	C = MS/LCS Result	D = MSD/LCSD % Rec
Log Difference	Log Diff. = Log(Sample Duplicate) - Log(Original Sample)	E = MSD/LCSD Result	

QC Summary 667009

Spectrum Environmental Services

Wauhoma Project

Analytical Method: **VOCs by SW-846 8260C** Prep Method: SW5030B

Seq Number: 3131832 Matrix: Ground Water Date Prep: 07.15.2020

Parent Sample Id: 666982-010 MS Sample Id: 666982-010 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
1,1,1,2-Tetrachloroethane	<1.00	50.0	47.8	96	72-125	ug/L	07.15.2020 19:00	
1,1,2,2-Tetrachloroethane	<1.00	50.0	48.0	96	74-125	ug/L	07.15.2020 19:00	
Tetrachloroethylene	<1.00	50.0	44.7	89	71-125	ug/L	07.15.2020 19:00	
Toluene	<1.00	50.0	44.8	90	59-139	ug/L	07.15.2020 19:00	
1,2,3-Trichlorobenzene	<5.00	50.0	53.7	107	75-137	ug/L	07.15.2020 19:00	
1,2,4-Trichlorobenzene	<5.00	50.0	50.5	101	75-135	ug/L	07.15.2020 19:00	
1,1,1-Trichloroethane	<1.00	50.0	46.8	94	75-125	ug/L	07.15.2020 19:00	
1,1,2-Trichloroethane	<1.00	50.0	47.9	96	75-127	ug/L	07.15.2020 19:00	
Trichloroethene	<1.00	50.0	45.8	92	62-137	ug/L	07.15.2020 19:00	
Trichlorofluoromethane	<1.00	50.0	45.9	92	60-140	ug/L	07.15.2020 19:00	
1,2,3-Trichloropropane	<1.00	50.0	47.1	94	75-125	ug/L	07.15.2020 19:00	
1,2,4-Trimethylbenzene	<1.00	50.0	44.9	90	75-125	ug/L	07.15.2020 19:00	
1,3,5-Trimethylbenzene	<1.00	50.0	45.2	90	70-125	ug/L	07.15.2020 19:00	
o-Xylene	<1.00	50.0	46.2	92	75-125	ug/L	07.15.2020 19:00	
m,p-Xylenes	<2.00	100	91.0	91	75-125	ug/L	07.15.2020 19:00	
Vinyl Acetate	<25.0	250	264	106	60-140	ug/L	07.15.2020 19:00	
Vinyl Chloride	<1.00	50.0	45.3	91	60-140	ug/L	07.15.2020 19:00	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Dibromofluoromethane	96		75-131	%	07.15.2020 19:00
1,2-Dichloroethane-D4	102		63-144	%	07.15.2020 19:00
Toluene-D8	99		80-117	%	07.15.2020 19:00
4-Bromofluorobenzene	102		74-124	%	07.15.2020 19:00

MS/MSD Percent Recovery	[D] = 100*(C-A) / B	LCS = Laboratory Control Sample	MS = Matrix Spike
Relative Percent Difference	RPD = 200* | (C-E) / (C+E) |	A = Parent Result	B = Spike Added
LCS/LCSD Recovery	[D] = 100 * (C) / [B]	C = MS/LCS Result	D = MSD/LCSD % Rec
Log Difference	Log Diff. = Log(Sample Duplicate) - Log(Original Sample)	E = MSD/LCSD Result	

Form 2 - Surrogate Recoveries

Project Name: Wauhoma Project

Report Date: 07212020

Work Orders : 667009

Project ID: 3357-002

Lab Batch #: 3131832 **Sample:** 7707490-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 07.15.2020 18:13

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0480	0.0500	96	75-131	
1,2-Dichloroethane-D4	0.0498	0.0500	100	63-144	
Toluene-D8	0.0495	0.0500	99	80-117	
4-Bromofluorobenzene	0.0486	0.0500	97	74-124	

Lab Batch #: 3131832 **Sample:** 7707490-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 07.15.2020 18:37

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0474	0.0500	95	75-131	
1,2-Dichloroethane-D4	0.0492	0.0500	98	63-144	
Toluene-D8	0.0496	0.0500	99	80-117	
4-Bromofluorobenzene	0.0493	0.0500	99	74-124	

Lab Batch #: 3131832 **Sample:** 666982-010 S / MS **Batch:** 1 **Matrix:** Ground Water

Units: mg/L **Date Analyzed:** 07.15.2020 19:00

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0480	0.0500	96	75-131	
1,2-Dichloroethane-D4	0.0511	0.0500	102	63-144	
Toluene-D8	0.0495	0.0500	99	80-117	
4-Bromofluorobenzene	0.0508	0.0500	102	74-124	

Lab Batch #: 3131832 **Sample:** 7707490-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 07.15.2020 20:35

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0508	0.0500	102	75-131	
1,2-Dichloroethane-D4	0.0515	0.0500	103	63-144	
Toluene-D8	0.0494	0.0500	99	80-117	
4-Bromofluorobenzene	0.0510	0.0500	102	74-124	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Wauhoma Project

Report Date: 07212020

Work Orders : 667009

Project ID: 3357-002

Lab Batch #: 3132016 **Sample:** 7707610-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07.17.2020 18:44

SURROGATE RECOVERY STUDY

VOCs By SW846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0516	0.0500	103	53-142	
1,2-Dichloroethane-D4	0.0513	0.0500	103	56-150	
Toluene-D8	0.0508	0.0500	102	70-130	
4-Bromofluorobenzene	0.0500	0.0500	100	68-152	

Lab Batch #: 3132016 **Sample:** 7707610-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07.17.2020 19:05

SURROGATE RECOVERY STUDY

VOCs By SW846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0498	0.0500	100	53-142	
1,2-Dichloroethane-D4	0.0480	0.0500	96	56-150	
Toluene-D8	0.0506	0.0500	101	70-130	
4-Bromofluorobenzene	0.0497	0.0500	99	68-152	

Lab Batch #: 3132016 **Sample:** 666905-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07.17.2020 19:26

SURROGATE RECOVERY STUDY

VOCs By SW846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0566	0.0500	113	53-142	
1,2-Dichloroethane-D4	0.0582	0.0500	116	56-150	
Toluene-D8	0.0490	0.0500	98	70-130	
4-Bromofluorobenzene	0.0500	0.0500	100	68-152	

Lab Batch #: 3132016 **Sample:** 7707610-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07.17.2020 22:17

SURROGATE RECOVERY STUDY

VOCs By SW846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0458	0.0500	92	53-142	
1,2-Dichloroethane-D4	0.0516	0.0500	103	56-150	
Toluene-D8	0.0490	0.0500	98	70-130	
4-Bromofluorobenzene	0.0526	0.0500	105	68-152	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Chain of Custody

Work Order No: 667009

XENCO LABORATORIES

1600 Oakbrook Drive, Suite 565, Norcross, GA 30093 (770-449-8800)

www.xenco.com Page 1 of 1

Project Manager:	Jamie Cox	Bill to: (if different)	
Company Name:	Spectrum Environmental Services, Inc.	Company Name:	(Same)
Address:	85 Spectrum Cove	Address:	
City, State ZIP:	Alabaster, AL 35007	City, State ZIP:	
Phone:	205-612-9298	Email:	rcothern@specenviro.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Wauhoma Project	Turn Around	
Project Number:	3357-002	Routine	☑
P.O. Number:	13446	Rush:	☐
Sampler's Name:	Audrey Henson	Due Date:	

SAMPLE RECEIPT			
	Temp Blank: (Yes) No	Wet Ice: (Yes) No	
Temperature (°C):	4.9/5.1	Thermometer ID	
Received Intact:	(Yes) No	ATL-123	
Cooler Custody Seals:	(Yes) No N/A	Correction Factor:	+0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 1:00 pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	VOCs (8260C)	% Moisture	Sample Comments
SB-1	Soil	7/9/20	9:40	16 ft	5	4	1	
SB-2	Soil	7/9/20	11:50	18 ft	5	4	1	
SB-3	Soil	7/9/20	14:00	16 ft	5	4	1	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Audrey Henson	FedEx	~~7/9/20 5:00~~	2 FedEx	John Andrew	07/11/20 11:10
3		7/10/20 11:00	4		
5			6		

Revised Date 051418 Rev. 2018.1

Chain of Custody

XENCO LABORATORIES

1600 Oakbrook Drive, Suite 565, Norcross, GA 30093 (770-449-8800)

www.xenco.com

Work Order No: 667009

Page 1 of 1

Project Manager:	Jamie Cox	Bill to: (if different)	
Company Name:	Spectrum Environmental Services, Inc.	Company Name:	(Same)
Address:	85 Spectrum Cove	Address:	
City, State ZIP:	Alabaster, AL 35007	City, State ZIP:	
Phone:	205-612-9298	Email:	rcothern@specenviro.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Wauhoma Project	Turn Around	
Project Number:	3357-002	Routine	☑
P.O. Number:	13446	Rush:	☐
Sampler's Name:	Audrey Henson	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	4.9/5.1	Thermometer ID	
Received Intact:	Yes No	ATL-123	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 1:00 pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	VOCs (8260C)	Sample Comments
SB-1 GW	GW	7/9/20	10:00		3	3	
SB-3 GW	GW	7/9/20	15:00		3	3	
SB-2 GW	GW	7/10/20	10:00		3	3	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Audrey Henson	FedEx	~~7/9/20 5:00~~ 7/10/20 11:00	2 FedEx	John Andrews	07/11/20 11:10
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

ORIGIN ID:ASNA (205) 651-0858
AUDREY HENSON
SPECTRUM ENVIRONMENTAL SVCS.
85 SPECTRUM COVE
ALABASTER, AL 35007
UNITED STATES US

SHIP DATE: 02JUL20
ACTWGT: 20.00 LB
CAD: 112416664/INET4220

TO **SAMPLE RECEIVING**
XENCO LABS
1600 OAKBROOK DR.
SUITE 565
NORCROSS GA 30093
(770) 449-8800
INV:
PO:
REF: SPECTRUM PROJECT
DEPT:

RMA:

FedEx Express

J2011280424B1cw

56BJ2/17B7/FE4A

TRK# 0221 **7910 6266 4867**

RETURNS MON-SAT
PRIORITY OVERNIGHT

30093

GA-US

1. Select the 'Print' button to print 1 copy of each label.
2. The Return Shipment instructions, which provide your recipient with information on the returns process, will be printed with the label(s).
3. After printing, select your next step by clicking one of the displayed buttons.

Note: To review or print individual labels, select the Label button under each label image above.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover ffom FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

CUSTODY SEAL
Date 7/9/2020
Signature Audrey Henson

Thermo SCIENTIFIC

90009

Inter-Office Shipment

IOS Number : 67009

Date/Time:	07.14.2020	Created by:	John Andros	Please send report to:	John Andros
Lab# From:	**Atlanta**	Delivery Priority:		Address:	1600 Oakbrook Dr., Suite 565, Norcross, GA 300
Lab# To:	**Houston**	Air Bill No.:		E-Mail:	john.andros@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
667009-001	S	SB-1	07.09.2020 09:40	SW8260C	VOCs By SW846 8260C	07.17.2020	07.23.2020	JNA	ACE ACRL ACRN BDCI	
667009-001	S	SB-1	07.09.2020 09:40	SM2540G-MOIST	Percent Moisture by SM2540G	07.17.2020	01.05.2021	JNA	MOIST	
667009-002	S	SB-2	07.09.2020 11:50	SW8260C	VOCs By SW846 8260C	07.17.2020	07.23.2020	JNA	ACE ACRL ACRN BDCI	
667009-002	S	SB-2	07.09.2020 11:50	SM2540G-MOIST	Percent Moisture by SM2540G	07.17.2020	01.05.2021	JNA	MOIST	
667009-003	S	SB-3	07.09.2020 14:00	SW8260C	VOCs By SW846 8260C	07.17.2020	07.23.2020	JNA	ACE ACRL ACRN BDCI	
667009-003	S	SB-3	07.09.2020 14:00	SM2540G-MOIST	Percent Moisture by SM2540G	07.17.2020	01.05.2021	JNA	MOIST	
667009-004	W	SB-1 GW	07.09.2020 10:00	SW8260C	VOCs by SW-846 8260C	07.17.2020	07.23.2020	JNA	ACE ACRL ACRN BDCI	
667009-005	W	SB-3 GW	07.09.2020 15:00	SW8260C	VOCs by SW-846 8260C	07.17.2020	07.23.2020	JNA	ACE ACRL ACRN BDCI	
667009-006	W	SB-2 GW	07.10.2020 10:00	SW8260C	VOCs by SW-846 8260C	07.17.2020	07.24.2020	JNA	ACE ACRL ACRN BDCI	

Inter Office Shipment or Sample Comments:

Relinquished By: John Andros

Date Relinquished: 07.14.2020

Received By: Jhyrom Edralin

Date Received: 07.14.2020

Cooler Temperature: 1.2

Eurofins Xenco, LLC

Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 67009

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : hou-068

Sent By: John Andros **Date Sent:** 07.14.2020 11.01 AM

Received By: Jhyrom Edralin **Date Received:** 07.14.2020 09.30 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	1.2	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 *Custody Seals Signed and dated for Containers/coolers	**N/A**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: _____ Date: 07.14.2020
Jhyrom Edralin

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Spectrum Environmental Services

Date/ Time Received: 07.11.2020 11.10.00 AM

Work Order #: 667009

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : ATL-123

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	5.1	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**No**	
#8 Any missing/extra samples?	**Yes**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**Yes**	
#18 Water VOC samples have zero headspace?	**Yes**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: MCM

PH Device/Lot#: N/A

Checklist completed by: John Andros — Date: 07.14.2020

Checklist reviewed by: John Andros — Date: 07.14.2020