Remedial Investigation Report
Soil Cover Evaluation
East End Park – NONCD0000823
Durham, Durham County, North Carolina
Task Order 823DP-2
S&ME Project No. 23050630

PREPARED FOR:

North Carolina Department of Environmental Quality
Division of Waste Management – Special Remediation Branch
Pre-Regulatory Landfill Unit
1646 Mail Service Center
Raleigh, NC 27699-1646

PREPARED BY:

S&ME, Inc.
3201 Spring Forest Road
Raleigh, NC 27616

March 6, 2024

March 6, 2024

North Carolina Department of Environmental Quality
Division of Waste Management – Special Remediation Branch
Pre-Regulatory Landfill Unit
1646 Mail Service Center
Raleigh, NC 27699-1646

Attention: Mr. Kevin Kelt via email: Kevin.Kelt@deq.nc.gov
Hydrogeologist

Reference: **Remedial Investigation Report – Soil Cover Evaluation**
East End Park – 1200 North Alston Avenue
Durham, Durham County, North Carolina
NCDEQ ID No. NONCD0000823
NCDEQ Task Orders 823DP-2
S&ME Project No. 23050630

Dear Mr. Kelt:

S&ME, Inc. (S&ME) is submitting this report to NCDEQ summarizing the results of the Remedial Investigation Activities (soil cover evaluation) conducted at the above-referenced site in Durham, North Carolina. S&ME completed this investigation in general conformance with S&ME Proposals No. 23050630H, dated November 29, 2023, for Task Order 823DP-2 and under the terms of Contract Number N42621-B, dated January 4, 2022, between NCDEQ and S&ME. The attached report includes the results of the following tasks:

- Soil Cover Thickness Evaluation
- Soil Cover Sampling

We appreciate the opportunity to provide environmental consulting services to NCDEQ. Please contact us if you have any questions about the information included in this report.

Sincerely,

S&ME, Inc.

Chelsea A. Parra, G.I.T.
Environmental Staff Professional
chelseaparra@smeinc.com

Gerald Paul
Senior Project Manager
jpaul@smeinc.com

Senior Reviewed by: Thomas P. Raymond, P.E., P.M.P.

Attachment: *Remedial Investigation Report – Soil Cover Evaluation*

Table of Contents

1.0 Summary of Current Investigation 1
2.0 Soil Cover Assessment 1
2.1 Soil Cover Thickness Evaluation 1
2.2 Soil Cover Thickness Results 2
2.3 Soil Cover Sampling 2
2.4 Soil Sampling Results 2
2.5 Risk Calculator 3
3.0 Quality Control 3
4.0 Sole Use Statement 4
5.0 Certification Acknowledgement 5

List of Figures

Figure 1 – Site Map with Soil Cover Boring Locations
Figure 2 – Soil Cover Thickness Results – S&ME Data
Figure 3 – Lead Concentrations Map – S&ME Data
Figure 4A – Historical Investigation Map – Lead Concentrations, S&ME and Mid-Atlantic Data
Figure 4B – Historical Investigation Map – Lead Concentrations, Duke XRF Screening Data Only
Figure 4C – Historical Investigation Map – Lead Concentrations, All Data – S&ME (Lab), Mid-Atlantic (Lab and XRF), and Duke (XRF)
Figure 5 – Combined Quality and Thickness Map

List of Tables

Table 1 – Soil Sample Analytical Results Summary
Table 2 – Soil Sample Analytical Results Summary – TCLP/SPLP Results

Appendices

Appendix I – Coordinates of Selected Features
Appendix II – Field Notes / Boring Logs
Appendix III – Laboratory Reports and Chains of Custody
Appendix IV - NCDEQ Risk Calculator Outputs

1.0 Summary of Current Investigation

S&ME completed the scope of services listed below for this investigation in general conformance with S&ME Proposal No. 23050630H, dated November 29, 2023, for Task Order 823DP-2:

- Evaluated thickness of soil cover via soil borings;
- Collected soil cover samples for laboratory analysis;
- Prepared this report.

S&ME's services were performed in general accordance with the North Carolina Department of Environmental Quality (NCDEQ), *Guidelines for Addressing Pre-Regulatory Landfills and Dumps* (March 2022) and S&ME's approved *Standard Operating Procedures and Quality Assurance (SOP/QA) Manual (July 2010)*, previously approved by NCDEQ.

2.0 Soil Cover Assessment

2.1 Soil Cover Thickness Evaluation

To assess the soil cover thickness across the investigation area, S&ME field representatives installed 41 soil borings on an approximate 100-foot sample grid (100' x 100', ~10,000 square foot areas). Within each grid node, S&ME collected one grab sample from the center of the grid (grab sample for volatile organic compounds (VOCs)) and offset by 25' in four directions (N, S, E, and W) to collect composite samples for all other analysis listed below (**Section 2.3**). At locations where obstructions (buildings, vehicles, dense vegetation or concrete pads) were encountered, the boring were off-set to collect representative composite samples.

In some coverage areas the sample grids were less than 100' x 100' in size. At these locations, S&ME field personnel attempted to collect one representative sample in the middle of the investigation area and additional composite samples (if possible) from the investigation area.

On December 12, 2023, S&ME field representatives advanced 16 composite soil cover borings (823-SB-01 through 823-SB-16). A total of 41 individual soil borings were installed across the investigation area. The composite soil cover boring locations are shown on **Figure 1**. Soil cover borings were installed using a stainless-steel six-inch electric auger, which was decontaminated with liquinox and deionized water between each use. Borings were installed to approximately one foot below ground surface (bgs). Coordinates of the soil cover borings are included in **Appendix I**. Depth of waste and soil classifications for the 16 sample grid borings are located in the boring logs in **Appendix II**.

2.2 Soil Cover Thickness Results

In general, soil cover across the waste disposal areas (WDAs) ranged in thickness from approximately four inches to greater than twelve inches. Shallow waste was encountered in five soil composite grids at depths ranging from four inches to eight inches bgs. Waste was not encountered in 11 soil composite grids up to the boring termination depth of 12 inches bgs. The soil cover material mostly consists of brown topsoil, sandy clay and clayey sand. Boring logs for all 16 composite grids can be found in **Appendix II** and soil cover thickness results are shown on **Figure 2.**

2.3 Soil Cover Sampling

At each boring location, the power auger was used to collect a representative soil sample to an approximate depth of twelve inches bgs. At each location, S&ME utilized a photo-ionization detector (PID) to field screen the soil cover samples for VOCs. S&ME collected a total of 16 composite soil cover samples (plus one quality control duplicate sample and trip blank sample for each day of sampling) and submitted them under standard chain-of-custody protocol to Pace Analytical National Center for Testing and Innovation in Mt. Juliet Tennessee. Samples were analyzed for VOCs by EPA Method 8260D and total lead by EPA Method 6020. Additionally, two samples (approximately 10% of analyzed samples) with the highest reported lead concentrations (SB-4 and SB-5) were analyzed for synthetic precipitation leaching procedure (SPLP) for lead only and toxicity characteristic leaching procedure (TCLP) for lead only, for comparison of leachable lead to the NCAC 2L Groundwater Standard, and the potential of future soil disposal.

2.4 Soil Sampling Results

Field Screened VOCs were measured from 0.0 parts per million (ppm) to 0.3 ppm in the collected samples across the investigation area.

A summary of the laboratory results is included as **Table 1**. TCLP and SPLP laboratory results are included as **Table 2**. The laboratory reports and chain of custody forms are included in **Appendix III**.

The laboratory reported concentrations of lead exceeding the USEPA health-based screening level of 200 milligrams per kilogram (mg/kg) and equivalent to 200 parts per million (ppm) in 1 of the 16 composite samples that were submitted for laboratory analysis. The area of the site reported to exceed the USEPA health-based screening level for lead are presented on **Figure 3**.

The TCLP results for the samples with the highest reported total lead concentrations were reported below the Maximum Concentration of Contaminants for Toxicity Characteristic levels, indicating that the lead concentrations are present at these locations below hazardous waste levels for TCLP lead. The SPLP results for the samples with the highest reported total lead concentrations exceed the NCAC 2L Standard, indicating the possibility of lead leaching from soil into groundwater.

Additionally, S&ME reviewed X-ray fluorescence (XRF) screening data from investigations conducted by Mid-Atlantic Associates Inc. (Mid-Atlantic) in July 2023, and by Enikoe Bihari (Duke University) from

September 2021 to May 2022. Laboratory analytical data from soil samples collected by Mid-Atlantic in July 2023 were also used. These data were utilized to create **Figures 4A, 4B, and 4C** to represent possible lead contamination at East End Park. **Figure 4C** combines the data from the referenced sampling events to present all the exceedances of the USEPA health-based screening level of 200 mg/kg for lead. **Figure 5** combines the historical exceedances of the USEPA health-based screening level of 200 mg/kg for lead and the sample grids that were shown to have an insufficient soil cover thickness per the NCDEQ Pre-Regulatory Landfill Guidelines.

2.5 Risk Calculator

NCDEQ's Risk Calculator was used to evaluate environmental exposure risks of detected VOCs only and exposure pathways associated with the Landfill Cover Soil Samples. S&ME used the February 2024 version of NCDEQ's Risk Calculator, downloaded from the NCDEQ website.

The highest concentration of each constituent was input into the NCDEQ Risk Calculator. The risk calculator uses the analytical results and generates a Carcinogenic Risk and Hazard Index value. The outputs from the Risk Calculator provided the following:

- The Carcinogenic Risk and the Hazard Index were not exceeded for resident, non-residential worker, construction worker, and recreator/trespasser receptors.

Currently there is no USEPA reference dose or cancer potency factor to quantify risks associated with exposures to lead. Exposure risks to lead are characterized based on predicted blood lead levels. The USEPA's health-based screening levels for lead in soil are as follows:

- Lead Compounds, residential soil exposure: The screening value for direct residential contact is 200 mg/kg. Reported laboratory concentrations of lead exceeding the USEPA health-based screening levels were reported in 1 of the 16 sample grids (S&ME 2023 Data only). Historically reported concentrations of lead at concentrations greater than the USEPA health-based screening levels were reported in 4 of the 16 sample grids (S&ME – 2023, Mid-Atlantic – 2023 and Duke University - 2022).

The Risk Calculator Summary Outputs are in **Appendix IV**.

3.0 Quality Control

Quality control samples were collected and analyzed as follows:

Soil Sample Duplicates

- One duplicate sample was collected during sampling. The duplicate sample was taken at 823-SB-01 and analyzed for the same parameters as the record sample. Analytical results of the duplicate samples agreed well with the record samples.

Trip Blank

- One trip blank sample of laboratory provided Deionized Water was kept with the laboratory samples throughout the sampling event and analyzed for VOCs by 8260D. No analytes were reported above the laboratory's minimum detection limit.

The laboratory conducted USEPA quality assurance and quality control procedures and reporting as required for laboratory analysis according to USEPA Level II Protocols. Reported laboratory analytical data met data quality objectives.

4.0 Sole Use Statement

This report is solely intended for use by NCDEQ for the services that were performed in accordance with S&ME Proposal No. 23050630H, dated November 29, 2023, for Task Order 823DP-2 as authorized by NCDEQ.

5.0 Certification Acknowledgement

"I certify that to the best of my knowledge, after thorough investigation, the information contained in or accompanying this certification is true, accurate, and complete."

Gerald Paul / S&ME, Inc.
Name of Environmental Consultant / Company

Signature of Environmental Consultant — Date: March 6, 2024

I, Gail L. Kluever, a Notary Public of said County and State, do hereby certify that Gerald Paul did personally appear and sign before me this day, produced proper identification in the form of Personally Known, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 6th day of March, 2024.

Gail L. Kluever
Notary Public (signature)

(OFFICIAL SEAL)
Gail L. Kluever NOTARY PUBLIC Wake County, NC My Comm. Exp. 07-26-2026

My commission expires: 7/26/2026

Figures

Drawing Path: T:\Raleigh-1050\Projects\2023\23050630_NCDEQ LF_City of Durham Parks (PRLF)_Durham NC\ENV\GIS\East End Park\East End Park.aprx Plotted by: ChelseaParra

NOTES:
SOIL SAMPLE LOCATIONS BASED ON GRID PLACEMENT AND SITE ACCESSIBILITY.

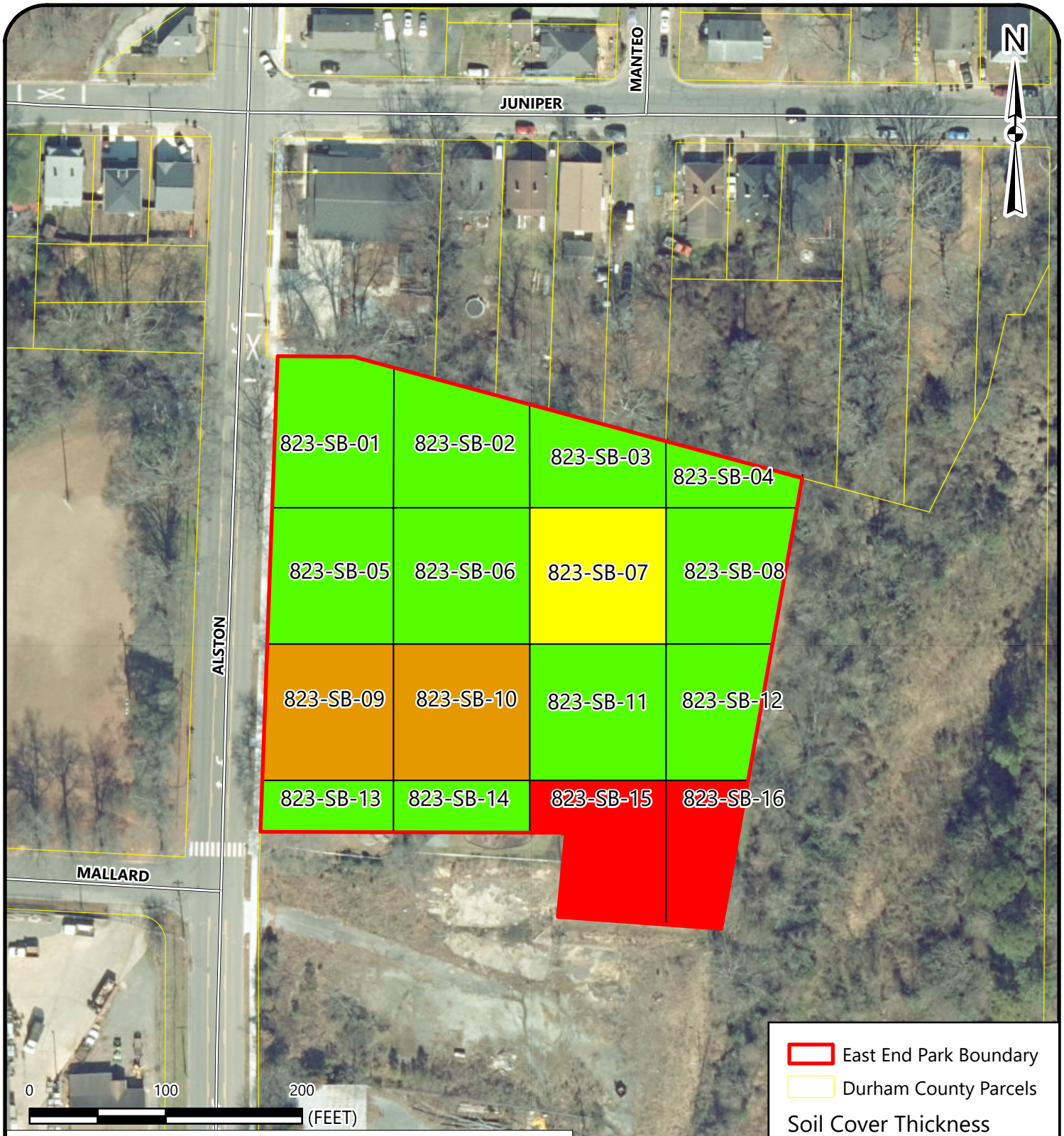
REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE LATEST NCONEMAP ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

- East End Park Boundary
- Durham County Parcels
- Former Incinerator
- Soil Cover Composite Boring
- Composite Grid Center Boring

SITE MAP WITH BORING LOCATIONS

EAST END PARK
NCDEQ ID NO. NONCD0000823, TASK ORDER 823DP-2
1200 N. ALSTON AVENUE
DURHAM, NORTH CAROLINA

SCALE: 1 in = 100 ft
DATE: 2/23/2024
PROJECT NUMBER 23050630
FIGURE NO. 1



NOTES:
THICKNESS RESULTS TAKEN FROM SOIL COVER SAMPLING CONDUCTED ON 12/12/2023.

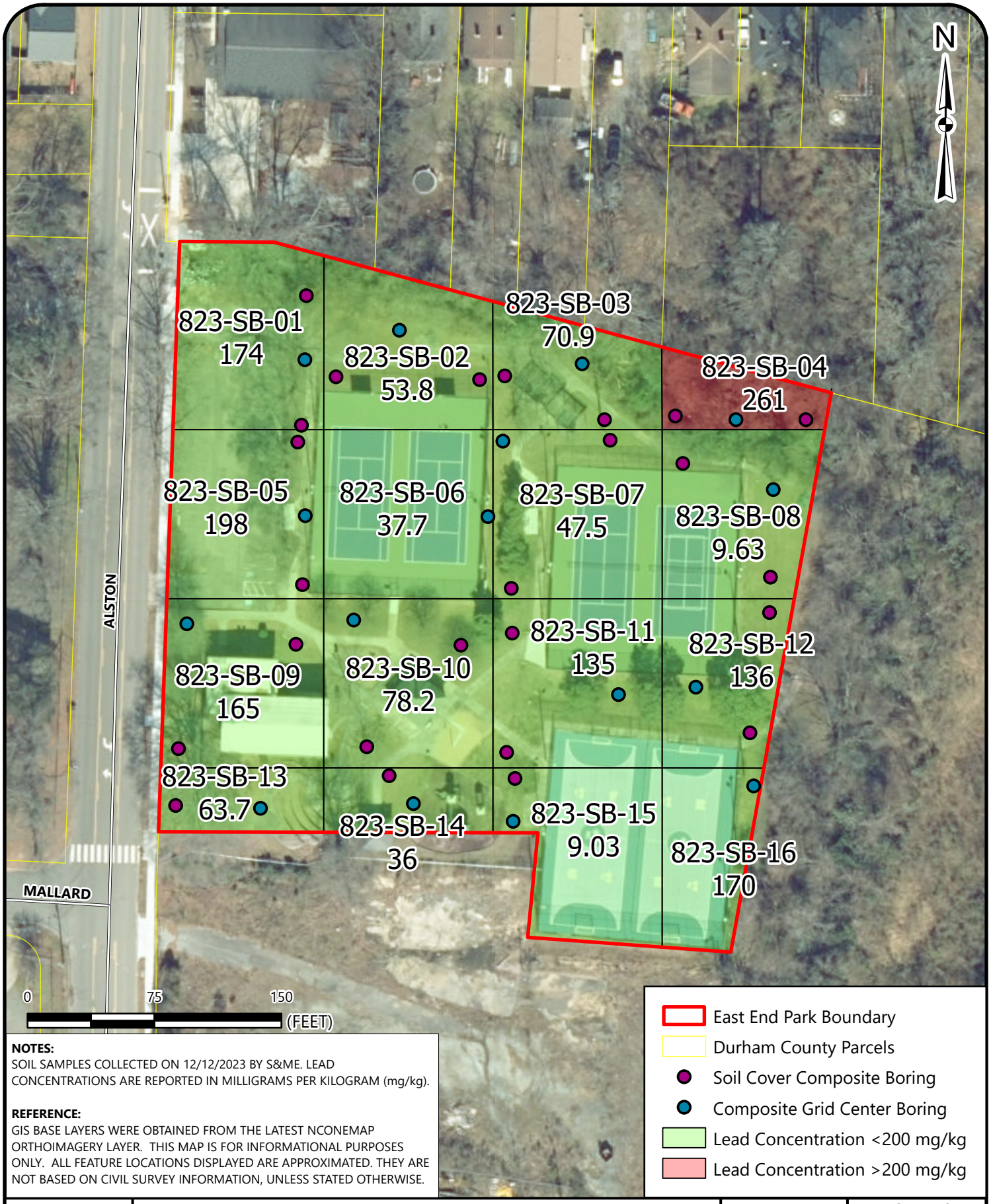
REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE LATEST NCONEMAP ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

SOIL COVER THICKNESS RESULTS

EAST END PARK
NCDEQ ID NO. NONCD0000823, TASK ORDER 823DP-2
1200 N. ALSTON AVENUE
DURHAM, NORTH CAROLINA

SCALE: 1 in = 100 ft
DATE: 2/23/2024
PROJECT NUMBER 23050630
FIGURE NO. 2

Drawing Path: T:\Raleigh-1050\Projects\2023\23050630_NCDEQ LF_City of Durham Parks (PRLF)_Durham NC\ENV\GIS\East End Park\East End Park.aprx Plotted by: ChelseaParra



NOTES:
SOIL SAMPLES COLLECTED ON 12/12/2023 BY S&ME. LEAD CONCENTRATIONS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg).

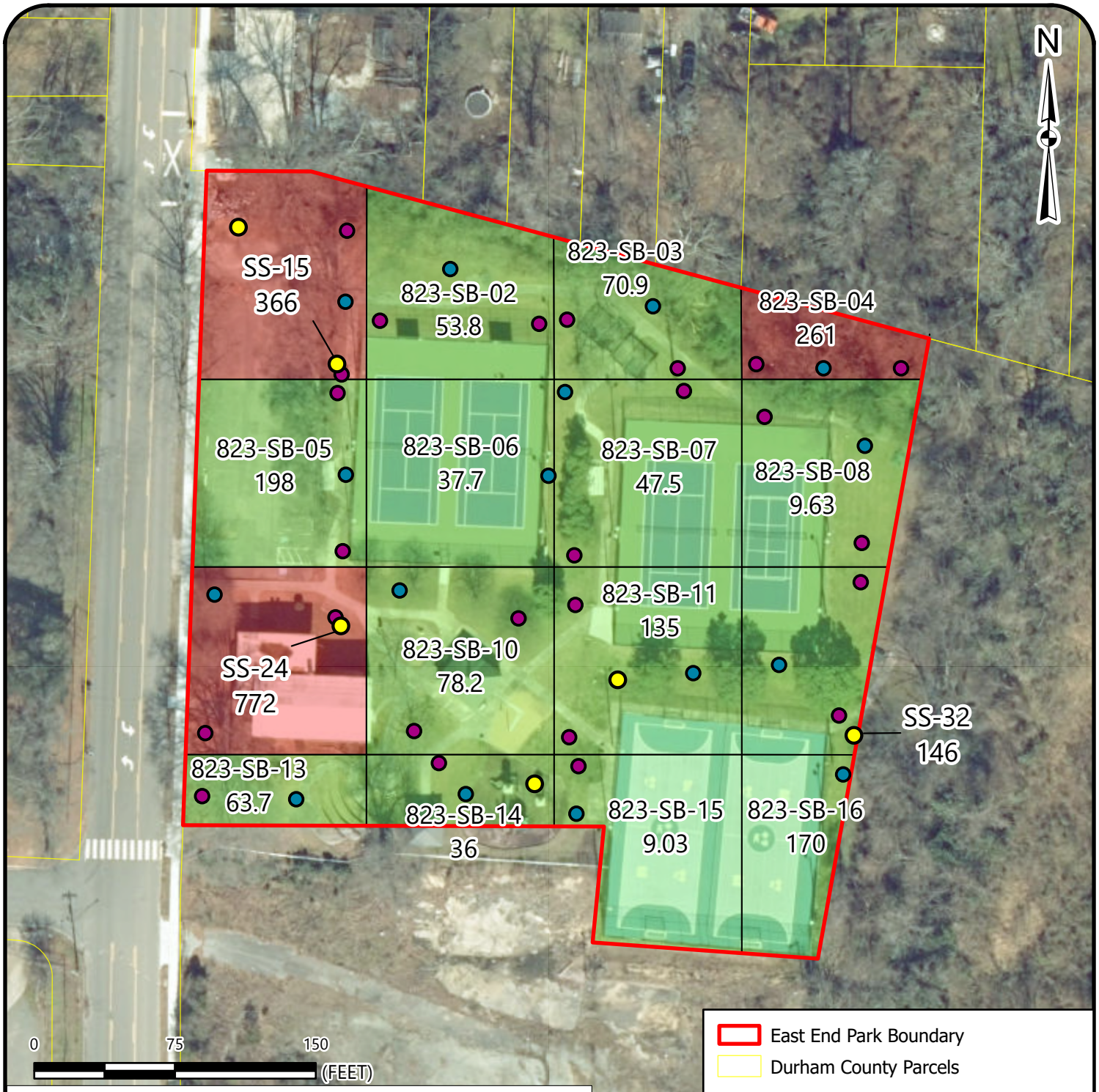
REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE LATEST NCONEMAP ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

LEAD CONCENTRATIONS MAP - S&ME DATA

EAST END PARK
NCDEQ ID NO. NONCD0000823, TASK ORDER 823DP-2
1200 N. ALSTON AVENUE
DURHAM, NORTH CAROLINA

SCALE: 1 in = 75 ft
DATE: 2/23/2024
PROJECT NUMBER 23050630
FIGURE NO. 3

Drawing Path: T:\Raleigh-1050\Projects\2023\23050630_NCDEQ LF_City of Durham Parks (PRLF)_Durham NC\ENV\GIS\East End Park\East End Park.aprx Plotted by: ChelseaParra



East End Park Boundary

Durham County Parcels

Soil Borings

- Soil Cover Composite Boring (S&ME)
- Composite Grid Center Boring (S&ME)
- Soil Boring (Mid-Atlantic)

Lead Concentration

- Lead Concentration <200 mg/kg
- Lead Concentration >200 mg/kg

NOTES:
SOIL SAMPLES COLLECTED ON 12/12/2023 BY S&ME. MID-ATLANTIC ASSOCIATES INC. (MID-ATLANTIC) SOIL BORINGS ARE REFERENCED FROM "SOIL ASSESSMENT REPORT - CITY OF DURHAM PARKS" DATED AUGUST 18, 2023, SEE REPORT FOR DETAILS. LEAD CONCENTRATIONS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg). HIGHEST LEAD CONCENTRATION FROM EACH DATASET (S&ME AND MID-ATLANTIC) ARE PRESENTED.

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE LATEST NCONEMAP ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

HISTORICAL INVESTIGATION MAP - LEAD CONCENTRATIONS S&ME AND MID-ATLANTIC DATA

EAST END PARK
NCDEQ ID NO. NONCD0000823, TASK ORDER 823DP-2
1200 N. ALSTON AVENUE
DURHAM, NORTH CAROLINA

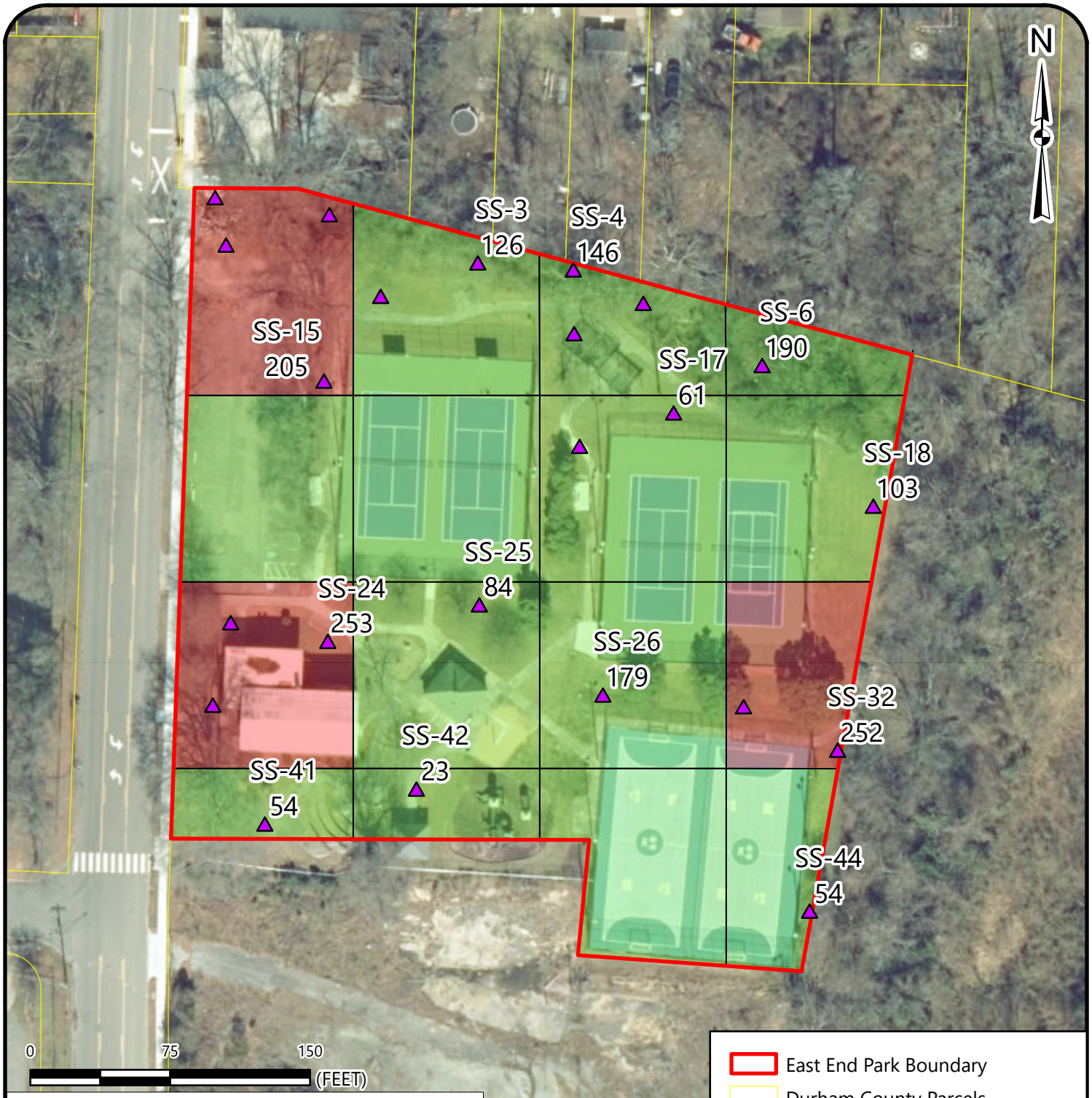
SCALE: 1 in = 75 ft

DATE: 2/23/2024

PROJECT NUMBER 23050630

FIGURE NO. 4A

Drawing Path: T:\Raleigh-1050\Projects\2023\23050630_NCDEQ LF_City of Durham Parks (PRLF)_Durham NC\ENV\GIS\East End Park\East End Park.aprx Plotted by: ChelseaParra



NOTES:
XRF SCREENING WAS CONDUCTED BY ENIKOE BIHARI (DUKE) IN DECEMBER 2022. LEAD CONCENTRATIONS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg). HIGHEST XRF SCREENING VALUE FROM WITHIN EACH GRID ARE PRESENTED.

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE LATEST NCONEMAP ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

East End Park Boundary
Durham County Parcels

XRF Screening Locations

Screening Location (Duke, 2022)

Lead Concentration

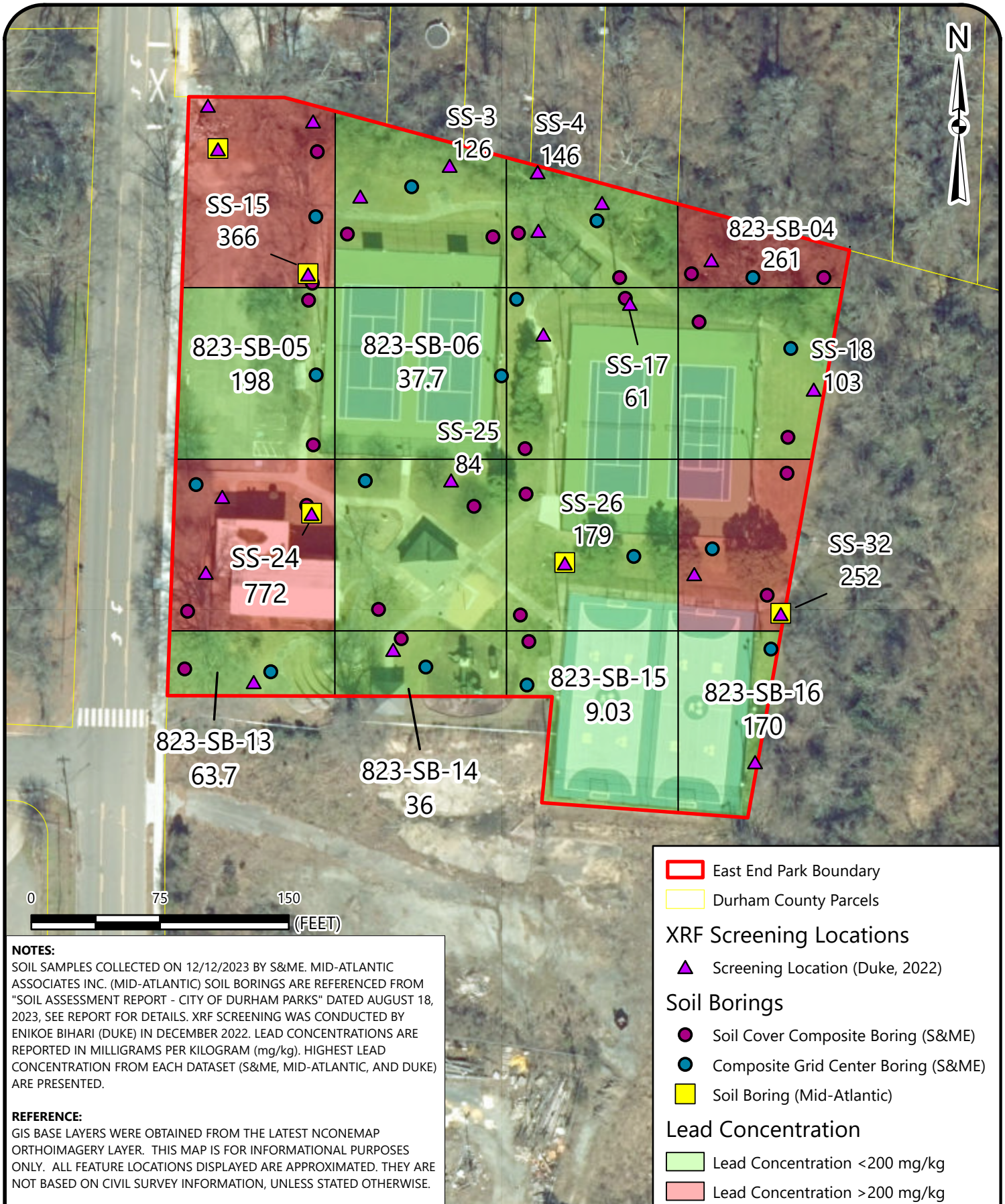
Lead Concentration <200 mg/kg
Lead Concentration >200 mg/kg

HISTORICAL INVESTIGATION MAP - LEAD CONCENTRATIONS
DUKE XRF SCREENING DATA ONLY

EAST END PARK
NCDEQ ID NO. NONCD0000823, TASK ORDER 823DP-2
1200 N. ALSTON AVENUE
DURHAM, NORTH CAROLINA

SCALE: 1 in = 75 ft
DATE: 2/23/2024
PROJECT NUMBER 23050630
FIGURE NO. 4B

Drawing Path: T:\Raleigh-1050\Projects\2023\23050630_NCDEQ LF_City of Durham Parks (PRLF)_Durham NC\ENV\GIS\East End Park\East End Park.aprx Plotted by: ChelseaParra



East End Park Boundary

Durham County Parcels

XRF Screening Locations

Screening Location (Duke, 2022)

Soil Borings

Soil Cover Composite Boring (S&ME)

Composite Grid Center Boring (S&ME)

Soil Boring (Mid-Atlantic)

Lead Concentration

Lead Concentration <200 mg/kg

Lead Concentration >200 mg/kg

NOTES:
SOIL SAMPLES COLLECTED ON 12/12/2023 BY S&ME. MID-ATLANTIC ASSOCIATES INC. (MID-ATLANTIC) SOIL BORINGS ARE REFERENCED FROM "SOIL ASSESSMENT REPORT - CITY OF DURHAM PARKS" DATED AUGUST 18, 2023, SEE REPORT FOR DETAILS. XRF SCREENING WAS CONDUCTED BY ENIKOE BIHARI (DUKE) IN DECEMBER 2022. LEAD CONCENTRATIONS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg). HIGHEST LEAD CONCENTRATION FROM EACH DATASET (S&ME, MID-ATLANTIC, AND DUKE) ARE PRESENTED.

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE LATEST NCONEMAP ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

Drawing Path: T:\Raleigh-1050\Projects\2023\23050630_NCDEQ LF_City of Durham Parks (PRLF)_Durham NC\ENV\GIS\East End Park\East End Park.aprx Plotted by: ChelseaParra

HISTORICAL INVESTIGATIONS MAP - LEAD CONCENTRATIONS
ALL DATA - S&ME (LAB), MID-ATLANTIC (LAB AND XRF), DUKE (XRF)

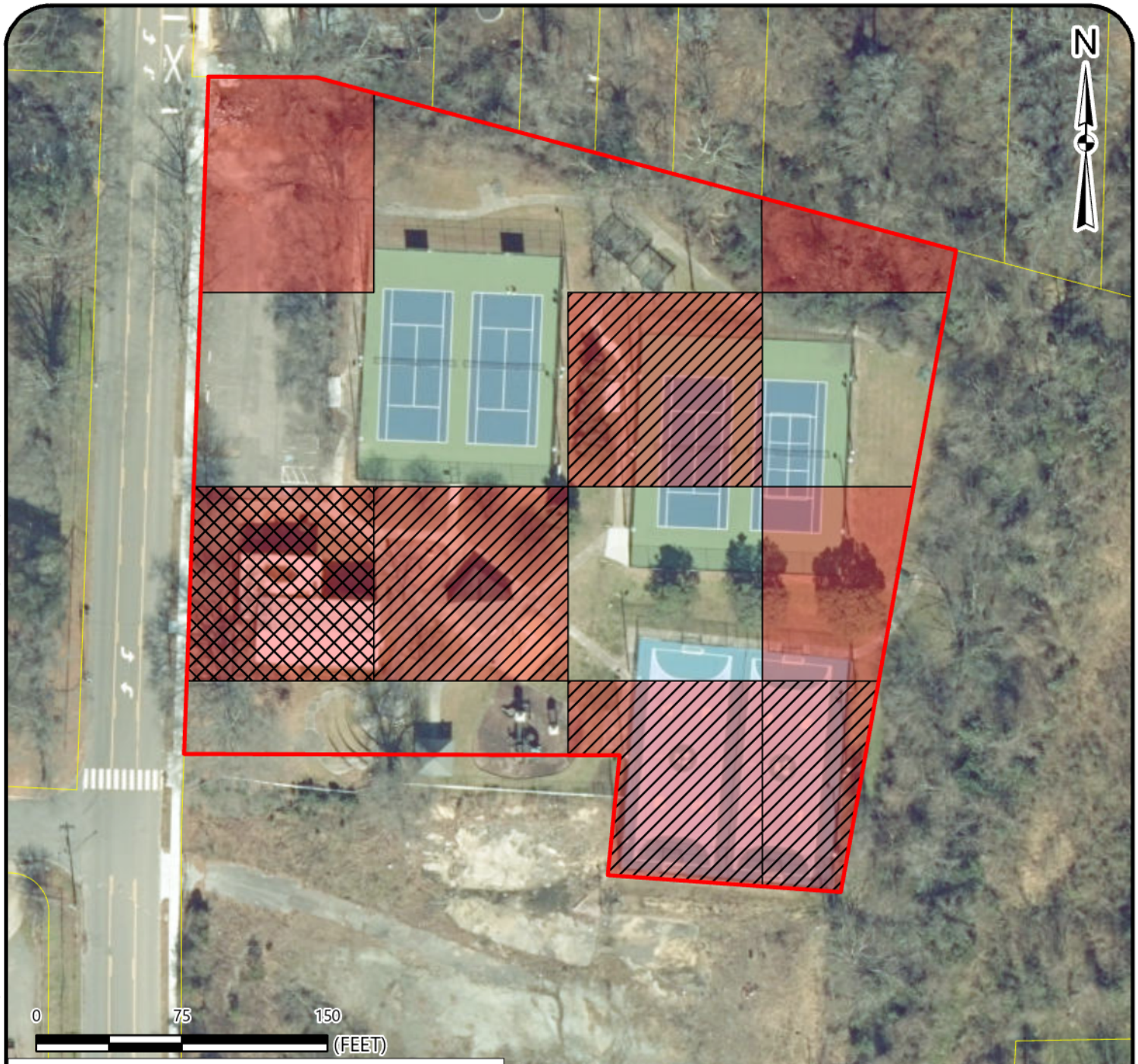
EAST END PARK
NCDEQ ID NO. NONCD0000823, TASK ORDER 823DP-2
1200 N. ALSTON AVENUE
DURHAM, NORTH CAROLINA

SCALE: 1 in = 75 ft

DATE: 2/23/2024

PROJECT NUMBER 23050630

FIGURE NO. 4C



NOTES:
SOIL SAMPLES COLLECTED ON 12/12/2023 BY S&ME. MID-ATLANTIC ASSOCIATES INC. (MID-ATLANTIC) SOIL BORINGS ARE REFERENCED FROM "SOIL ASSESSMENT REPORT - CITY OF DURHAM PARKS" DATED AUGUST 18, 2023, SEE REPORT FOR DETAILS. XRF SCREENING WAS CONDUCTED BY ENIKOE BIHARI (DUKE) IN DECEMBER 2022. LEAD CONCENTRATIONS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg). HIGHEST LEAD CONCENTRATION FROM EACH DATASET (S&ME, MID-ATLANTIC, AND DUKE) ARE PRESENTED.

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE LATEST NCONEMAP ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

Drawing Path: T:\Raleigh-1050\Projects\2023\23050630_NCDEQ LF_City of Durham Parks (PRLF)_Durham NC\ENV\GIS\East End Park\East End Park.aprx Plotted by: EmilyHermann

COMBINED QUALITY AND THICKNESS MAP

EAST END PARK
NCDEQ ID NO. NONCD0000823, TASK ORDER 823DP-2
1200 N. ALSTON AVENUE
DURHAM, NORTH CAROLINA

SCALE: 1 in = 75 ft
DATE: 3/6/2024
PROJECT NUMBER 23050630
FIGURE NO. 5

Tables

TABLE 1
Soil Sample Analytical Results Summary
City of Durham Parks PRLF
S&ME Project No. 23050630
823-East End Park

Analytical Method →		Volatile Organic Compounds by EPA Method 8260D (mg/kg)								Metals by EPA Method 6020B (mg/kg)
Analyte →		Benzene	cis-1,2-Dichloroethene	Methyl Tert-Butyl Ether	Naphthalene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	Total Xylenes	Lead
Sample ID	Date Collected									
823-SB-01	12/11/2023	<0.00202	<0.00505	<0.00202	<0.0253	<0.00505	<0.0101	<0.0101	<0.0131	**174**
823-SB-02	12/11/2023	**0.00325**	<0.00401	<0.00161	**0.0636**	<0.00401	**0.0225**	**0.0156**	**0.0558**	**53.8 J6**
823-SB-03	12/11/2023	**0.00458**	<0.00345	<0.00138	**0.0389**	**0.00387**	**0.0218**	**0.011**	**0.032**	**70.9**
823-SB-04	12/11/2023	<0.00168	<0.00419	**0.00244**	**0.0539**	<0.00419	**0.0133**	**0.00986**	**0.0251**	**261**
823-SB-05	12/11/2023	<0.00159	<0.00398	<0.00159	**0.0209**	**0.635**	**0.0149**	**0.012**	**0.0307**	**198**
823-SB-06	12/11/2023	<0.00135	<0.00338	<0.00135	<0.0169	<0.00338	<0.00677	<0.00677	<0.00880	**37.7**
823-SB-07	12/11/2023	**0.00188**	<0.00398	<0.00159	**0.0269**	<0.00398	**0.0222**	**0.0115**	**0.0442**	**47.5**
823-SB-08	12/11/2023	**0.00172**	<0.00298	**0.00236**	**0.0216**	<0.00298	**0.0169**	**0.00741**	**0.028**	**9.63**
823-SB-09	12/11/2023	<0.00128	<0.00320	<0.00128	<0.0160 C3	<0.00320	<0.00640	<0.00640	<0.00833	**165**
823-SB-10	12/11/2023	<0.00162	<0.00404	<0.00162	<0.0203 C3	<0.00404	<0.00810	<0.00810	<0.0105	**78.2**
823-SB-11	12/11/2023	**0.00206**	<0.00368	<0.00147	**0.0218 C3**	<0.00368	**0.0172**	<0.00734	**0.0344**	**135**
823-SB-12	12/11/2023	**0.00178**	<0.00372	<0.00148	<0.0185 C3	<0.00372	**0.0119**	<0.00742	**0.0223**	**136**
823-SB-13	12/11/2023	<0.00130	<0.00326	<0.00130	<0.0162 C3	<0.00326	<0.00650	<0.00650	<0.00845	**63.7**
823-SB-14	12/11/2023	<0.00142	<0.00355	<0.00142	<0.0177 C3	<0.00355	<0.00709	<0.00709	**0.0118**	**36**
823-SB-15	12/11/2023	<0.00132	<0.00330	<0.00132	<0.0165 C3	<0.00330	<0.00659	<0.00659	<0.00857	**9.03**
823-SB-16	12/12/2023	<0.00136	<0.00339	<0.00136	<0.0170 C3	<0.00339	<0.00679	<0.00679	<0.00883	**170**
DUP-SB (SB-1)	12/11/2023	<0.00209	**0.0104**	<0.00209	<0.0261 C3	<0.00522	<0.0104	<0.0104	<0.0136	**162**

Notes:

mg/kg - milligrams per kilogram.

C3: Laboratory Qualifier: The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Concentrations shown in **BOLD** exceed the laboratory detection limits.

Concentrations of Lead that exceed the USEPA Health-Based Screening Level of 200 mg/kg are **highlighted yellow.**

TABLE 2
Soil Sample Analytical Results Summary - TCLP/SPLP Results
City of Durham Parks PRLF
S&ME Project No. 23050630
823-East End Park

Analytical Method →		TCLP Lead (mg/L)	SPLP Lead (µg/L)
Analyte →			
Sample ID	**Date Collected**		
SB-4	12/11/2023	**0.182**	**215**
SB-5	12/11/2023	**0.0761**	**151**
Maximum Concentration of Contaminant for Toxicity Characteristic		**5**	**NE**
2L Groundwater Standard		**NE**	**15**

Notes:
mg/l: milligrams per liter
V: The sample concentration is too high to evaluate accurate spike recoveries.
TCLP: Toxic Characteristic Leaching Procedure
SPLP: Synthetic Precipitation Leaching Procedure
Concentrations shown in **BOLD** exceed the laboratory detection limits.
Concentrations that exceed the NCAC 2L Groundwater Standard are **highlighted yellow.**

Appendices

Appendix I – Coordinates of Selected Features

APPENDIX I
Coordinates of Selected Features
East End Park, NONCD0000823
Durham, Durham County, North Carolina
S&ME Project No.: 23050230, Task Order 823DP-2

Site Feature	Type	Location			
		Latitude	Longitude	Northing	Easting
821-SB-01-1	Soil Cover Boring	35.99820	-78.88552	690590.60100	3985815.97600
821-SB-01-2	Soil Cover Boring	35.99809	-78.88553	690590.57600	3985804.42900
821-SB-01-3	Soil Cover Boring	35.99799	-78.88553	690590.19700	3985792.60600
821-SB-02-1	Soil Cover Boring	35.99806	-78.88546	690596.24200	3985801.45900
821-SB-02-2	Soil Cover Boring	35.99806	-78.88518	690622.10600	3985801.48600
821-SB-02-3	Soil Cover Boring	35.99814	-78.88534	690607.48500	3985810.08800
821-SB-03-1	Soil Cover Boring	35.99808	-78.88497	690640.51400	3985804.72100
821-SB-03-2	Soil Cover Boring	35.99807	-78.88513	690626.62500	3985802.25100
821-SB-03-3	Soil Cover Boring	35.99799	-78.88493	690644.75000	3985794.73000
821-SB-04-1	Soil Cover Boring	35.99799	-78.88467	690668.42200	3985795.21600
821-SB-04-2	Soil Cover Boring	35.99800	-78.88479	690657.49600	3985795.66400
821-SB-04-3	Soil Cover Boring	35.99799	-78.88453	690681.01300	3985795.47500
821-SB-05-1	Soil Cover Boring	35.99784	-78.88553	690591.21600	3985776.33000
821-SB-05-2	Soil Cover Boring	35.99796	-78.88554	690589.60000	3985789.56600
821-SB-05-3	Soil Cover Boring	35.99773	-78.88553	690590.96700	3985763.89700
821-SB-06-1	Soil Cover Boring	35.99784	-78.88516	690624.12400	3985776.83900
821-SB-07-1	Soil Cover Boring	35.99796	-78.88513	690626.53100	3985790.49200
821-SB-07-2	Soil Cover Boring	35.99796	-78.88492	690645.83400	3985791.05800
821-SB-07-3	Soil Cover Boring	35.99772	-78.88511	690628.58700	3985763.99800
821-SB-08-1	Soil Cover Boring	35.99788	-78.88459	690675.39600	3985782.76400
821-SB-08-2	Soil Cover Boring	35.99792	-78.88477	690659.01500	3985787.12900
821-SB-08-3	Soil Cover Boring	35.99774	-78.88460	690675.21600	3985766.97200
821-SB-09-1	Soil Cover Boring	35.99766	-78.88576	690570.29500	3985756.41900
821-SB-09-2	Soil Cover Boring	35.99746	-78.88578	690569.24600	3985733.89100
821-SB-09-3	Soil Cover Boring	35.99763	-78.88554	690590.01300	3985753.12800
821-SB-10-1	Soil Cover Boring	35.99767	-78.88543	690600.33200	3985757.70700
821-SB-10-2	Soil Cover Boring	35.99763	-78.88522	690619.73200	3985753.57100
821-SB-10-3	Soil Cover Boring	35.99746	-78.88540	690603.15100	3985734.92300
821-SB-11-1	Soil Cover Boring	35.99755	-78.88490	690648.28600	3985745.25600
821-SB-11-2	Soil Cover Boring	35.99765	-78.88511	690628.92000	3985755.94400
821-SB-11-3	Soil Cover Boring	35.99745	-78.88512	690628.35400	3985734.43400
821-SB-12-1	Soil Cover Boring	35.99756	-78.88475	690662.19300	3985746.88600
821-SB-12-2	Soil Cover Boring	35.99749	-78.88464	690672.09900	3985738.86000
821-SB-12-3	Soil Cover Boring	35.99768	-78.88460	690675.18000	3985760.58900
821-SB-13-1	Soil Cover Boring	35.99736	-78.88562	690584.24100	3985723.45100
821-SB-13-2	Soil Cover Boring	35.99737	-78.88579	690568.95300	3985723.64000
821-SB-14-1	Soil Cover Boring	35.99737	-78.88531	690611.75600	3985724.85600
821-SB-14-2	Soil Cover Boring	35.99742	-78.88536	690607.28800	3985729.80200
821-SB-15-1	Soil Cover Boring	35.99734	-78.88511	690629.78500	3985722.03500
821-SB-15-2	Soil Cover Boring	35.99741	-78.88511	690629.96200	3985729.76400
821-SB-16-1	Soil Cover Boring	35.99740	-78.88463	690672.96700	3985729.30400

Notes:

Site feature locations are reported in decimal degrees for Lattitude/Longitude and in feet in the North Carolina State Plane Coordinate System (NAD83).

Appendix II – Field Notes / Boring Logs

BORING LOG

Project Name: East End Park
Job No. 23050630

Boring Number: 823-SB-01
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown topsoil, dry	0.0	823-SB-01	0 - 12
		Boring terminated at 12 in. bgs.		DUP-SB taken here	

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 823-SB-02
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown topsoil with trace clay, moist	0.0	823-SB-02	0 - 12
		Boring terminated at 12 in. bgs.		DUP-SB taken here	

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 823-SB-03
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown sandy clay, moist	0.0	823-SB-03	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

BORING LOG

Project Name: East End Park
Job No. 23050630

Boring Number: 823-SB-04
Drilling method: Hand Auger
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown topsoil, dry	0.3	823-SB-04	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 823-SB-05
Drilling method: Hand Auger
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown topsoil, dry	0.0	823-SB-05	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 823-SB-06
Drilling method: Hand Auger
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown clayey sand, moist	0.0	823-SB-06	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

BORING LOG

Project Name: East End Park
Job No. 23050630

Boring Number: 823-SB-07
Drilling method: Hand Auger
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown topsoil with trace clay, moist, plastic waste at 8-in	0.0	823-SB-07	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 823-SB-08
Drilling method: Hand Auger
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	light brown clayey sand, moist	0.0	823-SB-08	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 823-SB-09
Drilling method: Hand Auger
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown clayey sand, dry, plastic waste at 6-in	0.0	823-SB-09	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

BORING LOG

Project Name: East End Park
Job No. 23050630

Boring Number: 823-SB-10
Drilling method: Hand Auger
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown clayey sand, dry, plastic waste at 6-in	0.0	823-SB-10	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 823-SB-11
Drilling method: Hand Auger
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown clayey sand, moist	0.0	823-SB-11	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 823-SB-12
Drilling method: Hand Auger
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown clayey sand, moist	0.0	823-SB-12	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

BORING LOG

Project Name: East End Park
Job No. 23050630

Boring Number: 823-SB-13
Drilling method: Hand Auger
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown clayey sand, moist	0.0	823-SB-13	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 823-SB-14
Drilling method: Hand Auger
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown clayey sand, moist	0.0	823-SB-14	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 823-SB-15
Drilling method: Hand Auger
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown clayey sand, moist, glass waste at 4-in	0.0	823-SB-15	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

BORING LOG

Project Name: East End Park
Job No. 23050630

Boring Number: 823-SB-16
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown clayey sand, moist, glass waste at 4-in	0.0	823-SB-16	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:

1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Appendix III – Laboratory Reports and Chains of Custody

ANALYTICAL REPORT

December 19, 2023

S&ME Inc. - Raleigh NC

Sample Delivery Group:	L1687684
Samples Received:	12/13/2023
Project Number:	
Description:	East End Park

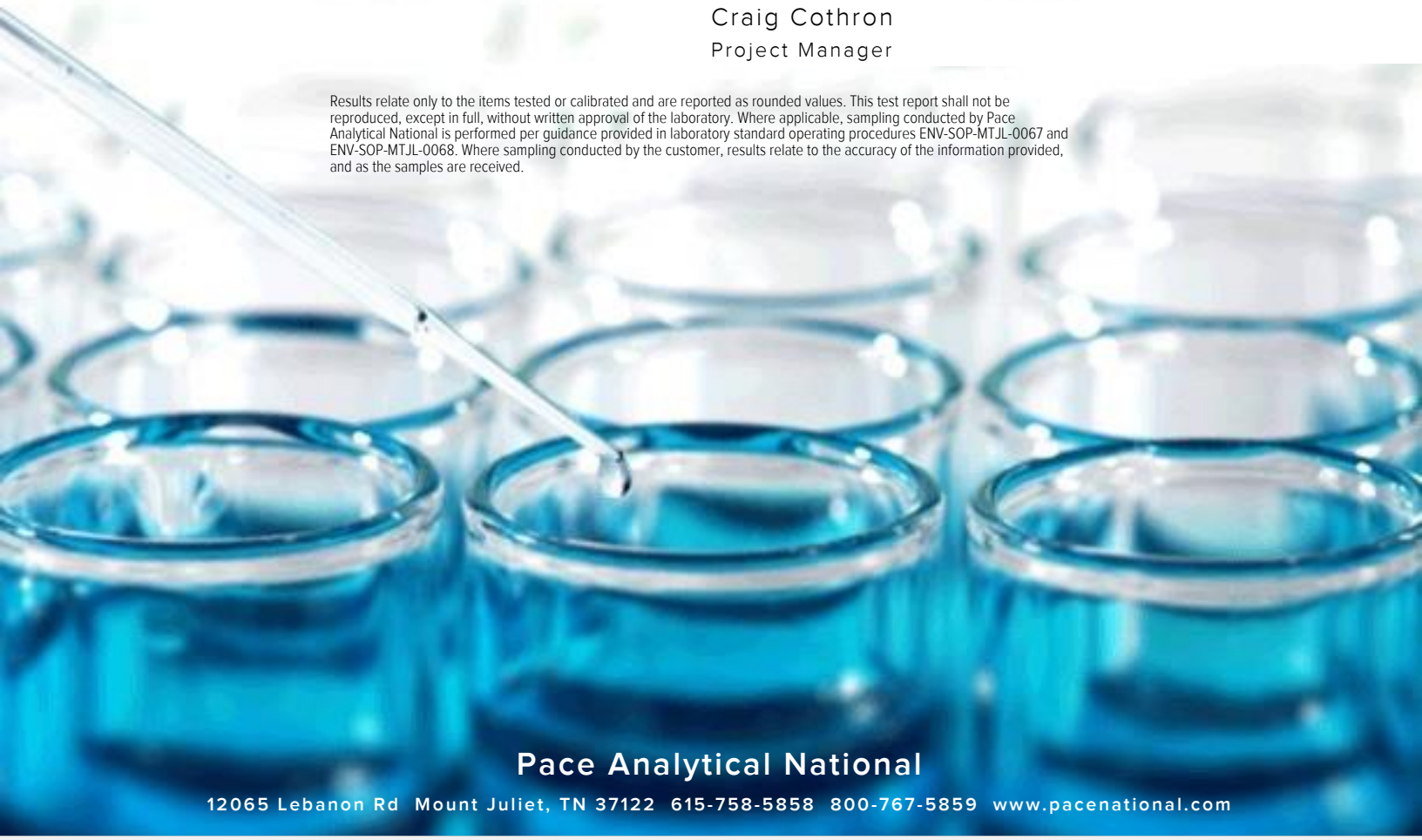
Report To:

Mr. Jerry Paul
3201 Spring Forest Road
Raleigh, NC 27616

Entire Report Reviewed By:

Craig Cothron
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 5

Sr: Sample Results 6

823-SB-01 L1687684-01 6

8223-SB-02 L1687684-02 8

8223-SB-03 L1687684-03 10

8223-SB-04 L1687684-04 12

8223-SB-05 L1687684-05 14

8223-SB-06 L1687684-06 16

8223-SB-07 L1687684-07 18

8223-SB-08 L1687684-08 20

DUP-SB L1687684-09 22

TRIP BLANK L1687684-10 24

Qc: Quality Control Summary 26

Total Solids by Method 2540 G-2011 26

Metals (ICPMS) by Method 6020 27

Volatile Organic Compounds (GC/MS) by Method 8260D 28

Gl: Glossary of Terms 40

Al: Accreditations & Locations 41

Sc: Sample Chain of Custody 42

823-SB-01 L1687684-01 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 11:00 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189425	1	12/14/23 13:03	12/14/23 13:22	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 22:46	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191210	1	12/12/23 11:00	12/18/23 02:12	ACG	Mt. Juliet, TN

8223-SB-02 L1687684-02 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 11:10 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189425	1	12/14/23 13:03	12/14/23 13:22	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 22:04	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191210	1.12	12/12/23 11:10	12/18/23 02:31	ACG	Mt. Juliet, TN

8223-SB-03 L1687684-03 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 11:20 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189425	1	12/14/23 13:03	12/14/23 13:22	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 22:49	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191210	1	12/12/23 11:20	12/18/23 02:50	ACG	Mt. Juliet, TN

8223-SB-04 L1687684-04 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 11:30 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189425	1	12/14/23 13:03	12/14/23 13:22	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 22:53	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191210	1.19	12/12/23 11:30	12/18/23 03:09	ACG	Mt. Juliet, TN

8223-SB-05 L1687684-05 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 11:45 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189425	1	12/14/23 13:03	12/14/23 13:22	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 22:56	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191210	1.12	12/12/23 11:45	12/18/23 03:28	ACG	Mt. Juliet, TN

8223-SB-06 L1687684-06 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 13:10 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189425	1	12/14/23 13:03	12/14/23 13:22	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 22:59	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191210	1	12/12/23 13:10	12/18/23 03:47	ACG	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

SAMPLE SUMMARY

8223-SB-07 L1687684-07 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 12:10 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189425	1	12/14/23 13:03	12/14/23 13:22	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 23:02	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191210	1.12	12/12/23 12:10	12/18/23 04:06	ACG	Mt. Juliet, TN

8223-SB-08 L1687684-08 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 13:35 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189425	1	12/14/23 13:03	12/14/23 13:22	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 23:06	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191210	1	12/12/23 13:35	12/18/23 04:26	ACG	Mt. Juliet, TN

DUP-SB L1687684-09 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 00:00 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189425	1	12/14/23 13:03	12/14/23 13:22	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 23:16	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191496	1.24	12/12/23 00:00	12/18/23 11:46	JHH	Mt. Juliet, TN

TRIP BLANK L1687684-10 GW

Collected by: Chelsea Parra | Collected date/time: 12/12/23 00:00 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191219	1	12/17/23 23:01	12/17/23 23:01	JCP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Craig Cothron
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.0		1	12/14/2023 13:22	WG2189425

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	174		2.90	5	12/17/2023 22:46	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.101	1	12/18/2023 02:12	WG2191210
Acrylonitrile	ND		0.0253	1	12/18/2023 02:12	WG2191210
Benzene	ND		0.00202	1	12/18/2023 02:12	WG2191210
Bromobenzene	ND		0.0253	1	12/18/2023 02:12	WG2191210
Bromodichloromethane	ND		0.00505	1	12/18/2023 02:12	WG2191210
Bromoform	ND		0.0505	1	12/18/2023 02:12	WG2191210
Bromomethane	ND		0.0253	1	12/18/2023 02:12	WG2191210
n-Butylbenzene	ND		0.0253	1	12/18/2023 02:12	WG2191210
sec-Butylbenzene	ND		0.0253	1	12/18/2023 02:12	WG2191210
tert-Butylbenzene	ND		0.0101	1	12/18/2023 02:12	WG2191210
Carbon tetrachloride	ND	J4	0.0101	1	12/18/2023 02:12	WG2191210
Chlorobenzene	ND		0.00505	1	12/18/2023 02:12	WG2191210
Chlorodibromomethane	ND		0.00505	1	12/18/2023 02:12	WG2191210
Chloroethane	ND		0.0101	1	12/18/2023 02:12	WG2191210
Chloroform	ND		0.00505	1	12/18/2023 02:12	WG2191210
Chloromethane	ND		0.0253	1	12/18/2023 02:12	WG2191210
2-Chlorotoluene	ND		0.00505	1	12/18/2023 02:12	WG2191210
4-Chlorotoluene	ND		0.0101	1	12/18/2023 02:12	WG2191210
1,2-Dibromo-3-Chloropropane	ND		0.0505	1	12/18/2023 02:12	WG2191210
1,2-Dibromoethane	ND		0.00505	1	12/18/2023 02:12	WG2191210
Dibromomethane	ND		0.0101	1	12/18/2023 02:12	WG2191210
1,2-Dichlorobenzene	ND		0.0101	1	12/18/2023 02:12	WG2191210
1,3-Dichlorobenzene	ND		0.0101	1	12/18/2023 02:12	WG2191210
1,4-Dichlorobenzene	ND		0.0101	1	12/18/2023 02:12	WG2191210
Dichlorodifluoromethane	ND		0.0101	1	12/18/2023 02:12	WG2191210
1,1-Dichloroethane	ND		0.00505	1	12/18/2023 02:12	WG2191210
1,2-Dichloroethane	ND		0.00505	1	12/18/2023 02:12	WG2191210
1,1-Dichloroethene	ND		0.00505	1	12/18/2023 02:12	WG2191210
cis-1,2-Dichloroethene	ND		0.00505	1	12/18/2023 02:12	WG2191210
trans-1,2-Dichloroethene	ND		0.0101	1	12/18/2023 02:12	WG2191210
1,2-Dichloropropane	ND		0.0101	1	12/18/2023 02:12	WG2191210
1,1-Dichloropropene	ND		0.00505	1	12/18/2023 02:12	WG2191210
1,3-Dichloropropane	ND		0.0101	1	12/18/2023 02:12	WG2191210
cis-1,3-Dichloropropene	ND		0.00505	1	12/18/2023 02:12	WG2191210
trans-1,3-Dichloropropene	ND		0.0101	1	12/18/2023 02:12	WG2191210
2,2-Dichloropropane	ND		0.00505	1	12/18/2023 02:12	WG2191210
Di-isopropyl ether	ND		0.00202	1	12/18/2023 02:12	WG2191210
Ethylbenzene	ND		0.00505	1	12/18/2023 02:12	WG2191210
Hexachloro-1,3-butadiene	ND		0.0505	1	12/18/2023 02:12	WG2191210
Isopropylbenzene	ND		0.00505	1	12/18/2023 02:12	WG2191210
p-Isopropyltoluene	ND		0.0101	1	12/18/2023 02:12	WG2191210
2-Butanone (MEK)	ND		0.202	1	12/18/2023 02:12	WG2191210
Methylene Chloride	ND		0.0505	1	12/18/2023 02:12	WG2191210
4-Methyl-2-pentanone (MIBK)	ND		0.0505	1	12/18/2023 02:12	WG2191210
Methyl tert-butyl ether	ND		0.00202	1	12/18/2023 02:12	WG2191210

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND		0.0253	1	12/18/2023 02:12	WG2191210
n-Propylbenzene	ND		0.0101	1	12/18/2023 02:12	WG2191210
Styrene	ND		0.0253	1	12/18/2023 02:12	WG2191210
1,1,1,2-Tetrachloroethane	ND		0.00505	1	12/18/2023 02:12	WG2191210
1,1,2,2-Tetrachloroethane	ND		0.00505	1	12/18/2023 02:12	WG2191210
Tetrachloroethene	ND		0.00505	1	12/18/2023 02:12	WG2191210
Toluene	ND		0.0101	1	12/18/2023 02:12	WG2191210
1,2,3-Trichlorobenzene	ND		0.0253	1	12/18/2023 02:12	WG2191210
1,2,4-Trichlorobenzene	ND		0.0253	1	12/18/2023 02:12	WG2191210
1,1,1-Trichloroethane	ND		0.00505	1	12/18/2023 02:12	WG2191210
1,1,2-Trichloroethane	ND		0.00505	1	12/18/2023 02:12	WG2191210
Trichloroethene	ND		0.00202	1	12/18/2023 02:12	WG2191210
Trichlorofluoromethane	ND		0.00505	1	12/18/2023 02:12	WG2191210
1,2,3-Trichloropropane	ND		0.0253	1	12/18/2023 02:12	WG2191210
1,2,4-Trimethylbenzene	ND		0.0101	1	12/18/2023 02:12	WG2191210
1,3,5-Trimethylbenzene	ND		0.0101	1	12/18/2023 02:12	WG2191210
Vinyl chloride	ND		0.00505	1	12/18/2023 02:12	WG2191210
Xylenes, Total	ND		0.0131	1	12/18/2023 02:12	WG2191210
(S) Toluene-d8	*98.3*		*75.0-131*		*12/18/2023 02:12*	WG2191210
(S) 4-Bromofluorobenzene	*101*		*67.0-138*		*12/18/2023 02:12*	WG2191210
(S) 1,2-Dichloroethane-d4	*111*		*70.0-130*		*12/18/2023 02:12*	WG2191210

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.4		1	12/14/2023 13:22	WG2189425

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	53.8	J6	2.46	5	12/17/2023 22:04	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0803	1.12	12/18/2023 02:31	WG2191210
Acrylonitrile	ND		0.0201	1.12	12/18/2023 02:31	WG2191210
Benzene	0.00325		0.00161	1.12	12/18/2023 02:31	WG2191210
Bromobenzene	ND		0.0201	1.12	12/18/2023 02:31	WG2191210
Bromodichloromethane	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
Bromoform	ND		0.0401	1.12	12/18/2023 02:31	WG2191210
Bromomethane	ND		0.0201	1.12	12/18/2023 02:31	WG2191210
n-Butylbenzene	ND		0.0201	1.12	12/18/2023 02:31	WG2191210
sec-Butylbenzene	ND		0.0201	1.12	12/18/2023 02:31	WG2191210
tert-Butylbenzene	ND		0.00803	1.12	12/18/2023 02:31	WG2191210
Carbon tetrachloride	ND	J4	0.00803	1.12	12/18/2023 02:31	WG2191210
Chlorobenzene	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
Chlorodibromomethane	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
Chloroethane	ND		0.00803	1.12	12/18/2023 02:31	WG2191210
Chloroform	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
Chloromethane	ND		0.0201	1.12	12/18/2023 02:31	WG2191210
2-Chlorotoluene	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
4-Chlorotoluene	ND		0.00803	1.12	12/18/2023 02:31	WG2191210
1,2-Dibromo-3-Chloropropane	ND		0.0401	1.12	12/18/2023 02:31	WG2191210
1,2-Dibromoethane	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
Dibromomethane	ND		0.00803	1.12	12/18/2023 02:31	WG2191210
1,2-Dichlorobenzene	ND		0.00803	1.12	12/18/2023 02:31	WG2191210
1,3-Dichlorobenzene	ND		0.00803	1.12	12/18/2023 02:31	WG2191210
1,4-Dichlorobenzene	ND		0.00803	1.12	12/18/2023 02:31	WG2191210
Dichlorodifluoromethane	ND		0.00803	1.12	12/18/2023 02:31	WG2191210
1,1-Dichloroethane	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
1,2-Dichloroethane	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
1,1-Dichloroethene	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
cis-1,2-Dichloroethene	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
trans-1,2-Dichloroethene	ND		0.00803	1.12	12/18/2023 02:31	WG2191210
1,2-Dichloropropane	ND		0.00803	1.12	12/18/2023 02:31	WG2191210
1,1-Dichloropropene	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
1,3-Dichloropropane	ND		0.00803	1.12	12/18/2023 02:31	WG2191210
cis-1,3-Dichloropropene	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
trans-1,3-Dichloropropene	ND		0.00803	1.12	12/18/2023 02:31	WG2191210
2,2-Dichloropropane	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
Di-isopropyl ether	ND		0.00161	1.12	12/18/2023 02:31	WG2191210
Ethylbenzene	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
Hexachloro-1,3-butadiene	ND		0.0401	1.12	12/18/2023 02:31	WG2191210
Isopropylbenzene	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
p-Isopropyltoluene	ND		0.00803	1.12	12/18/2023 02:31	WG2191210
2-Butanone (MEK)	ND		0.161	1.12	12/18/2023 02:31	WG2191210
Methylene Chloride	ND		0.0401	1.12	12/18/2023 02:31	WG2191210
4-Methyl-2-pentanone (MIBK)	ND		0.0401	1.12	12/18/2023 02:31	WG2191210
Methyl tert-butyl ether	ND		0.00161	1.12	12/18/2023 02:31	WG2191210

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	0.0636		0.0201	1.12	12/18/2023 02:31	WG2191210
n-Propylbenzene	ND		0.00803	1.12	12/18/2023 02:31	WG2191210
Styrene	ND		0.0201	1.12	12/18/2023 02:31	WG2191210
1,1,1,2-Tetrachloroethane	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
1,1,2,2-Tetrachloroethane	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
Tetrachloroethene	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
Toluene	0.0225		0.00803	1.12	12/18/2023 02:31	WG2191210
1,2,3-Trichlorobenzene	ND		0.0201	1.12	12/18/2023 02:31	WG2191210
1,2,4-Trichlorobenzene	ND		0.0201	1.12	12/18/2023 02:31	WG2191210
1,1,1-Trichloroethane	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
1,1,2-Trichloroethane	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
Trichloroethene	ND		0.00161	1.12	12/18/2023 02:31	WG2191210
Trichlorofluoromethane	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
1,2,3-Trichloropropane	ND		0.0201	1.12	12/18/2023 02:31	WG2191210
1,2,4-Trimethylbenzene	0.0156		0.00803	1.12	12/18/2023 02:31	WG2191210
1,3,5-Trimethylbenzene	ND		0.00803	1.12	12/18/2023 02:31	WG2191210
Vinyl chloride	ND		0.00401	1.12	12/18/2023 02:31	WG2191210
Xylenes, Total	0.0558		0.0104	1.12	12/18/2023 02:31	WG2191210
(S) Toluene-d8	*99.3*		*75.0-131*		*12/18/2023 02:31*	WG2191210
(S) 4-Bromofluorobenzene	*105*		*67.0-138*		*12/18/2023 02:31*	WG2191210
(S) 1,2-Dichloroethane-d4	*111*		*70.0-130*		*12/18/2023 02:31*	WG2191210

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.1		1	12/14/2023 13:22	WG2189425

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	70.9		2.38	5	12/17/2023 22:49	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0690	1	12/18/2023 02:50	WG2191210
Acrylonitrile	ND		0.0173	1	12/18/2023 02:50	WG2191210
Benzene	0.00458		0.00138	1	12/18/2023 02:50	WG2191210
Bromobenzene	ND		0.0173	1	12/18/2023 02:50	WG2191210
Bromodichloromethane	ND		0.00345	1	12/18/2023 02:50	WG2191210
Bromoform	ND		0.0345	1	12/18/2023 02:50	WG2191210
Bromomethane	ND		0.0173	1	12/18/2023 02:50	WG2191210
n-Butylbenzene	ND		0.0173	1	12/18/2023 02:50	WG2191210
sec-Butylbenzene	ND		0.0173	1	12/18/2023 02:50	WG2191210
tert-Butylbenzene	ND		0.00690	1	12/18/2023 02:50	WG2191210
Carbon tetrachloride	ND	J4	0.00690	1	12/18/2023 02:50	WG2191210
Chlorobenzene	ND		0.00345	1	12/18/2023 02:50	WG2191210
Chlorodibromomethane	ND		0.00345	1	12/18/2023 02:50	WG2191210
Chloroethane	ND		0.00690	1	12/18/2023 02:50	WG2191210
Chloroform	ND		0.00345	1	12/18/2023 02:50	WG2191210
Chloromethane	ND		0.0173	1	12/18/2023 02:50	WG2191210
2-Chlorotoluene	ND		0.00345	1	12/18/2023 02:50	WG2191210
4-Chlorotoluene	ND		0.00690	1	12/18/2023 02:50	WG2191210
1,2-Dibromo-3-Chloropropane	ND		0.0345	1	12/18/2023 02:50	WG2191210
1,2-Dibromoethane	ND		0.00345	1	12/18/2023 02:50	WG2191210
Dibromomethane	ND		0.00690	1	12/18/2023 02:50	WG2191210
1,2-Dichlorobenzene	ND		0.00690	1	12/18/2023 02:50	WG2191210
1,3-Dichlorobenzene	ND		0.00690	1	12/18/2023 02:50	WG2191210
1,4-Dichlorobenzene	ND		0.00690	1	12/18/2023 02:50	WG2191210
Dichlorodifluoromethane	ND		0.00690	1	12/18/2023 02:50	WG2191210
1,1-Dichloroethane	ND		0.00345	1	12/18/2023 02:50	WG2191210
1,2-Dichloroethane	ND		0.00345	1	12/18/2023 02:50	WG2191210
1,1-Dichloroethene	ND		0.00345	1	12/18/2023 02:50	WG2191210
cis-1,2-Dichloroethene	ND		0.00345	1	12/18/2023 02:50	WG2191210
trans-1,2-Dichloroethene	ND		0.00690	1	12/18/2023 02:50	WG2191210
1,2-Dichloropropane	ND		0.00690	1	12/18/2023 02:50	WG2191210
1,1-Dichloropropene	ND		0.00345	1	12/18/2023 02:50	WG2191210
1,3-Dichloropropane	ND		0.00690	1	12/18/2023 02:50	WG2191210
cis-1,3-Dichloropropene	ND		0.00345	1	12/18/2023 02:50	WG2191210
trans-1,3-Dichloropropene	ND		0.00690	1	12/18/2023 02:50	WG2191210
2,2-Dichloropropane	ND		0.00345	1	12/18/2023 02:50	WG2191210
Di-isopropyl ether	ND		0.00138	1	12/18/2023 02:50	WG2191210
Ethylbenzene	ND		0.00345	1	12/18/2023 02:50	WG2191210
Hexachloro-1,3-butadiene	ND		0.0345	1	12/18/2023 02:50	WG2191210
Isopropylbenzene	ND		0.00345	1	12/18/2023 02:50	WG2191210
p-Isopropyltoluene	ND		0.00690	1	12/18/2023 02:50	WG2191210
2-Butanone (MEK)	ND		0.138	1	12/18/2023 02:50	WG2191210
Methylene Chloride	ND		0.0345	1	12/18/2023 02:50	WG2191210
4-Methyl-2-pentanone (MIBK)	ND		0.0345	1	12/18/2023 02:50	WG2191210
Methyl tert-butyl ether	ND		0.00138	1	12/18/2023 02:50	WG2191210

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	0.0389		0.0173	1	12/18/2023 02:50	WG2191210
n-Propylbenzene	ND		0.00690	1	12/18/2023 02:50	WG2191210
Styrene	ND		0.0173	1	12/18/2023 02:50	WG2191210
1,1,1,2-Tetrachloroethane	ND		0.00345	1	12/18/2023 02:50	WG2191210
1,1,2,2-Tetrachloroethane	ND		0.00345	1	12/18/2023 02:50	WG2191210
Tetrachloroethene	0.00387		0.00345	1	12/18/2023 02:50	WG2191210
Toluene	0.0218		0.00690	1	12/18/2023 02:50	WG2191210
1,2,3-Trichlorobenzene	ND		0.0173	1	12/18/2023 02:50	WG2191210
1,2,4-Trichlorobenzene	ND		0.0173	1	12/18/2023 02:50	WG2191210
1,1,1-Trichloroethane	ND		0.00345	1	12/18/2023 02:50	WG2191210
1,1,2-Trichloroethane	ND		0.00345	1	12/18/2023 02:50	WG2191210
Trichloroethene	ND		0.00138	1	12/18/2023 02:50	WG2191210
Trichlorofluoromethane	ND		0.00345	1	12/18/2023 02:50	WG2191210
1,2,3-Trichloropropane	ND		0.0173	1	12/18/2023 02:50	WG2191210
1,2,4-Trimethylbenzene	0.0110		0.00690	1	12/18/2023 02:50	WG2191210
1,3,5-Trimethylbenzene	ND		0.00690	1	12/18/2023 02:50	WG2191210
Vinyl chloride	ND		0.00345	1	12/18/2023 02:50	WG2191210
Xylenes, Total	0.0320		0.00897	1	12/18/2023 02:50	WG2191210
(S) Toluene-d8	*96.8*		*75.0-131*		*12/18/2023 02:50*	WG2191210
(S) 4-Bromofluorobenzene	*109*		*67.0-138*		*12/18/2023 02:50*	WG2191210
(S) 1,2-Dichloroethane-d4	*112*		*70.0-130*		*12/18/2023 02:50*	WG2191210

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.7		1	12/14/2023 13:22	WG2189425

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	261		2.45	5	12/17/2023 22:53	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0840	1.19	12/18/2023 03:09	WG2191210
Acrylonitrile	ND		0.0210	1.19	12/18/2023 03:09	WG2191210
Benzene	ND		0.00168	1.19	12/18/2023 03:09	WG2191210
Bromobenzene	ND		0.0210	1.19	12/18/2023 03:09	WG2191210
Bromodichloromethane	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
Bromoform	ND		0.0419	1.19	12/18/2023 03:09	WG2191210
Bromomethane	ND		0.0210	1.19	12/18/2023 03:09	WG2191210
n-Butylbenzene	ND		0.0210	1.19	12/18/2023 03:09	WG2191210
sec-Butylbenzene	ND		0.0210	1.19	12/18/2023 03:09	WG2191210
tert-Butylbenzene	ND		0.00840	1.19	12/18/2023 03:09	WG2191210
Carbon tetrachloride	ND	J4	0.00840	1.19	12/18/2023 03:09	WG2191210
Chlorobenzene	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
Chlorodibromomethane	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
Chloroethane	ND		0.00840	1.19	12/18/2023 03:09	WG2191210
Chloroform	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
Chloromethane	ND		0.0210	1.19	12/18/2023 03:09	WG2191210
2-Chlorotoluene	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
4-Chlorotoluene	ND		0.00840	1.19	12/18/2023 03:09	WG2191210
1,2-Dibromo-3-Chloropropane	ND		0.0419	1.19	12/18/2023 03:09	WG2191210
1,2-Dibromoethane	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
Dibromomethane	ND		0.00840	1.19	12/18/2023 03:09	WG2191210
1,2-Dichlorobenzene	ND		0.00840	1.19	12/18/2023 03:09	WG2191210
1,3-Dichlorobenzene	ND		0.00840	1.19	12/18/2023 03:09	WG2191210
1,4-Dichlorobenzene	ND		0.00840	1.19	12/18/2023 03:09	WG2191210
Dichlorodifluoromethane	ND		0.00840	1.19	12/18/2023 03:09	WG2191210
1,1-Dichloroethane	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
1,2-Dichloroethane	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
1,1-Dichloroethene	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
cis-1,2-Dichloroethene	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
trans-1,2-Dichloroethene	ND		0.00840	1.19	12/18/2023 03:09	WG2191210
1,2-Dichloropropane	ND		0.00840	1.19	12/18/2023 03:09	WG2191210
1,1-Dichloropropene	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
1,3-Dichloropropane	ND		0.00840	1.19	12/18/2023 03:09	WG2191210
cis-1,3-Dichloropropene	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
trans-1,3-Dichloropropene	ND		0.00840	1.19	12/18/2023 03:09	WG2191210
2,2-Dichloropropane	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
Di-isopropyl ether	ND		0.00168	1.19	12/18/2023 03:09	WG2191210
Ethylbenzene	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
Hexachloro-1,3-butadiene	ND		0.0419	1.19	12/18/2023 03:09	WG2191210
Isopropylbenzene	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
p-Isopropyltoluene	ND		0.00840	1.19	12/18/2023 03:09	WG2191210
2-Butanone (MEK)	ND		0.168	1.19	12/18/2023 03:09	WG2191210
Methylene Chloride	ND		0.0419	1.19	12/18/2023 03:09	WG2191210
4-Methyl-2-pentanone (MIBK)	ND		0.0419	1.19	12/18/2023 03:09	WG2191210
Methyl tert-butyl ether	0.00244		0.00168	1.19	12/18/2023 03:09	WG2191210

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	0.0539		0.0210	1.19	12/18/2023 03:09	WG2191210
n-Propylbenzene	ND		0.00840	1.19	12/18/2023 03:09	WG2191210
Styrene	ND		0.0210	1.19	12/18/2023 03:09	WG2191210
1,1,1,2-Tetrachloroethane	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
1,1,2,2-Tetrachloroethane	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
Tetrachloroethene	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
Toluene	0.0133		0.00840	1.19	12/18/2023 03:09	WG2191210
1,2,3-Trichlorobenzene	ND		0.0210	1.19	12/18/2023 03:09	WG2191210
1,2,4-Trichlorobenzene	ND		0.0210	1.19	12/18/2023 03:09	WG2191210
1,1,1-Trichloroethane	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
1,1,2-Trichloroethane	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
Trichloroethene	ND		0.00168	1.19	12/18/2023 03:09	WG2191210
Trichlorofluoromethane	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
1,2,3-Trichloropropane	ND		0.0210	1.19	12/18/2023 03:09	WG2191210
1,2,4-Trimethylbenzene	0.00986		0.00840	1.19	12/18/2023 03:09	WG2191210
1,3,5-Trimethylbenzene	ND		0.00840	1.19	12/18/2023 03:09	WG2191210
Vinyl chloride	ND		0.00419	1.19	12/18/2023 03:09	WG2191210
Xylenes, Total	0.0251		0.0109	1.19	12/18/2023 03:09	WG2191210
(S) Toluene-d8	*97.5*		*75.0-131*		*12/18/2023 03:09*	WG2191210
(S) 4-Bromofluorobenzene	*105*		*67.0-138*		*12/18/2023 03:09*	WG2191210
(S) 1,2-Dichloroethane-d4	*109*		*70.0-130*		*12/18/2023 03:09*	WG2191210

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.9		1	12/14/2023 13:22	WG2189425

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	198		2.44	5	12/17/2023 22:56	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0795	1.12	12/18/2023 03:28	WG2191210
Acrylonitrile	ND		0.0199	1.12	12/18/2023 03:28	WG2191210
Benzene	ND		0.00159	1.12	12/18/2023 03:28	WG2191210
Bromobenzene	ND		0.0199	1.12	12/18/2023 03:28	WG2191210
Bromodichloromethane	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
Bromoform	ND		0.0398	1.12	12/18/2023 03:28	WG2191210
Bromomethane	ND		0.0199	1.12	12/18/2023 03:28	WG2191210
n-Butylbenzene	ND		0.0199	1.12	12/18/2023 03:28	WG2191210
sec-Butylbenzene	ND		0.0199	1.12	12/18/2023 03:28	WG2191210
tert-Butylbenzene	ND		0.00795	1.12	12/18/2023 03:28	WG2191210
Carbon tetrachloride	ND	J4	0.00795	1.12	12/18/2023 03:28	WG2191210
Chlorobenzene	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
Chlorodibromomethane	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
Chloroethane	ND		0.00795	1.12	12/18/2023 03:28	WG2191210
Chloroform	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
Chloromethane	ND		0.0199	1.12	12/18/2023 03:28	WG2191210
2-Chlorotoluene	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
4-Chlorotoluene	ND		0.00795	1.12	12/18/2023 03:28	WG2191210
1,2-Dibromo-3-Chloropropane	ND		0.0398	1.12	12/18/2023 03:28	WG2191210
1,2-Dibromoethane	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
Dibromomethane	ND		0.00795	1.12	12/18/2023 03:28	WG2191210
1,2-Dichlorobenzene	ND		0.00795	1.12	12/18/2023 03:28	WG2191210
1,3-Dichlorobenzene	ND		0.00795	1.12	12/18/2023 03:28	WG2191210
1,4-Dichlorobenzene	ND		0.00795	1.12	12/18/2023 03:28	WG2191210
Dichlorodifluoromethane	ND		0.00795	1.12	12/18/2023 03:28	WG2191210
1,1-Dichloroethane	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
1,2-Dichloroethane	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
1,1-Dichloroethene	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
cis-1,2-Dichloroethene	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
trans-1,2-Dichloroethene	ND		0.00795	1.12	12/18/2023 03:28	WG2191210
1,2-Dichloropropane	ND		0.00795	1.12	12/18/2023 03:28	WG2191210
1,1-Dichloropropene	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
1,3-Dichloropropane	ND		0.00795	1.12	12/18/2023 03:28	WG2191210
cis-1,3-Dichloropropene	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
trans-1,3-Dichloropropene	ND		0.00795	1.12	12/18/2023 03:28	WG2191210
2,2-Dichloropropane	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
Di-isopropyl ether	ND		0.00159	1.12	12/18/2023 03:28	WG2191210
Ethylbenzene	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
Hexachloro-1,3-butadiene	ND		0.0398	1.12	12/18/2023 03:28	WG2191210
Isopropylbenzene	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
p-Isopropyltoluene	ND		0.00795	1.12	12/18/2023 03:28	WG2191210
2-Butanone (MEK)	ND		0.159	1.12	12/18/2023 03:28	WG2191210
Methylene Chloride	ND		0.0398	1.12	12/18/2023 03:28	WG2191210
4-Methyl-2-pentanone (MIBK)	ND		0.0398	1.12	12/18/2023 03:28	WG2191210
Methyl tert-butyl ether	ND		0.00159	1.12	12/18/2023 03:28	WG2191210

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	0.0209		0.0199	1.12	12/18/2023 03:28	WG2191210
n-Propylbenzene	ND		0.00795	1.12	12/18/2023 03:28	WG2191210
Styrene	ND		0.0199	1.12	12/18/2023 03:28	WG2191210
1,1,1,2-Tetrachloroethane	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
1,1,2,2-Tetrachloroethane	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
Tetrachloroethene	0.635		0.00398	1.12	12/18/2023 03:28	WG2191210
Toluene	0.0149		0.00795	1.12	12/18/2023 03:28	WG2191210
1,2,3-Trichlorobenzene	ND		0.0199	1.12	12/18/2023 03:28	WG2191210
1,2,4-Trichlorobenzene	ND		0.0199	1.12	12/18/2023 03:28	WG2191210
1,1,1-Trichloroethane	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
1,1,2-Trichloroethane	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
Trichloroethene	ND		0.00159	1.12	12/18/2023 03:28	WG2191210
Trichlorofluoromethane	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
1,2,3-Trichloropropane	ND		0.0199	1.12	12/18/2023 03:28	WG2191210
1,2,4-Trimethylbenzene	0.0120		0.00795	1.12	12/18/2023 03:28	WG2191210
1,3,5-Trimethylbenzene	ND		0.00795	1.12	12/18/2023 03:28	WG2191210
Vinyl chloride	ND		0.00398	1.12	12/18/2023 03:28	WG2191210
Xylenes, Total	0.0307		0.0103	1.12	12/18/2023 03:28	WG2191210
(S) Toluene-d8	*99.0*		*75.0-131*		*12/18/2023 03:28*	WG2191210
(S) 4-Bromofluorobenzene	*106*		*67.0-138*		*12/18/2023 03:28*	WG2191210
(S) 1,2-Dichloroethane-d4	*111*		*70.0-130*		*12/18/2023 03:28*	WG2191210

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.1		1	12/14/2023 13:22	WG2189425

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	37.7		2.32	5	12/17/2023 22:59	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0677	1	12/18/2023 03:47	WG2191210
Acrylonitrile	ND		0.0169	1	12/18/2023 03:47	WG2191210
Benzene	ND		0.00135	1	12/18/2023 03:47	WG2191210
Bromobenzene	ND		0.0169	1	12/18/2023 03:47	WG2191210
Bromodichloromethane	ND		0.00338	1	12/18/2023 03:47	WG2191210
Bromoform	ND		0.0338	1	12/18/2023 03:47	WG2191210
Bromomethane	ND		0.0169	1	12/18/2023 03:47	WG2191210
n-Butylbenzene	ND		0.0169	1	12/18/2023 03:47	WG2191210
sec-Butylbenzene	ND		0.0169	1	12/18/2023 03:47	WG2191210
tert-Butylbenzene	ND		0.00677	1	12/18/2023 03:47	WG2191210
Carbon tetrachloride	ND	J4	0.00677	1	12/18/2023 03:47	WG2191210
Chlorobenzene	ND		0.00338	1	12/18/2023 03:47	WG2191210
Chlorodibromomethane	ND		0.00338	1	12/18/2023 03:47	WG2191210
Chloroethane	ND		0.00677	1	12/18/2023 03:47	WG2191210
Chloroform	ND		0.00338	1	12/18/2023 03:47	WG2191210
Chloromethane	ND		0.0169	1	12/18/2023 03:47	WG2191210
2-Chlorotoluene	ND		0.00338	1	12/18/2023 03:47	WG2191210
4-Chlorotoluene	ND		0.00677	1	12/18/2023 03:47	WG2191210
1,2-Dibromo-3-Chloropropane	ND		0.0338	1	12/18/2023 03:47	WG2191210
1,2-Dibromoethane	ND		0.00338	1	12/18/2023 03:47	WG2191210
Dibromomethane	ND		0.00677	1	12/18/2023 03:47	WG2191210
1,2-Dichlorobenzene	ND		0.00677	1	12/18/2023 03:47	WG2191210
1,3-Dichlorobenzene	ND		0.00677	1	12/18/2023 03:47	WG2191210
1,4-Dichlorobenzene	ND		0.00677	1	12/18/2023 03:47	WG2191210
Dichlorodifluoromethane	ND		0.00677	1	12/18/2023 03:47	WG2191210
1,1-Dichloroethane	ND		0.00338	1	12/18/2023 03:47	WG2191210
1,2-Dichloroethane	ND		0.00338	1	12/18/2023 03:47	WG2191210
1,1-Dichloroethene	ND		0.00338	1	12/18/2023 03:47	WG2191210
cis-1,2-Dichloroethene	ND		0.00338	1	12/18/2023 03:47	WG2191210
trans-1,2-Dichloroethene	ND		0.00677	1	12/18/2023 03:47	WG2191210
1,2-Dichloropropane	ND		0.00677	1	12/18/2023 03:47	WG2191210
1,1-Dichloropropene	ND		0.00338	1	12/18/2023 03:47	WG2191210
1,3-Dichloropropane	ND		0.00677	1	12/18/2023 03:47	WG2191210
cis-1,3-Dichloropropene	ND		0.00338	1	12/18/2023 03:47	WG2191210
trans-1,3-Dichloropropene	ND		0.00677	1	12/18/2023 03:47	WG2191210
2,2-Dichloropropane	ND		0.00338	1	12/18/2023 03:47	WG2191210
Di-isopropyl ether	ND		0.00135	1	12/18/2023 03:47	WG2191210
Ethylbenzene	ND		0.00338	1	12/18/2023 03:47	WG2191210
Hexachloro-1,3-butadiene	ND		0.0338	1	12/18/2023 03:47	WG2191210
Isopropylbenzene	ND		0.00338	1	12/18/2023 03:47	WG2191210
p-Isopropyltoluene	ND		0.00677	1	12/18/2023 03:47	WG2191210
2-Butanone (MEK)	ND		0.135	1	12/18/2023 03:47	WG2191210
Methylene Chloride	ND		0.0338	1	12/18/2023 03:47	WG2191210
4-Methyl-2-pentanone (MIBK)	ND		0.0338	1	12/18/2023 03:47	WG2191210
Methyl tert-butyl ether	ND		0.00135	1	12/18/2023 03:47	WG2191210

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND		0.0169	1	12/18/2023 03:47	WG2191210
n-Propylbenzene	ND		0.00677	1	12/18/2023 03:47	WG2191210
Styrene	ND		0.0169	1	12/18/2023 03:47	WG2191210
1,1,1,2-Tetrachloroethane	ND		0.00338	1	12/18/2023 03:47	WG2191210
1,1,2,2-Tetrachloroethane	ND		0.00338	1	12/18/2023 03:47	WG2191210
Tetrachloroethene	ND		0.00338	1	12/18/2023 03:47	WG2191210
Toluene	ND		0.00677	1	12/18/2023 03:47	WG2191210
1,2,3-Trichlorobenzene	ND		0.0169	1	12/18/2023 03:47	WG2191210
1,2,4-Trichlorobenzene	ND		0.0169	1	12/18/2023 03:47	WG2191210
1,1,1-Trichloroethane	ND		0.00338	1	12/18/2023 03:47	WG2191210
1,1,2-Trichloroethane	ND		0.00338	1	12/18/2023 03:47	WG2191210
Trichloroethene	ND		0.00135	1	12/18/2023 03:47	WG2191210
Trichlorofluoromethane	ND		0.00338	1	12/18/2023 03:47	WG2191210
1,2,3-Trichloropropane	ND		0.0169	1	12/18/2023 03:47	WG2191210
1,2,4-Trimethylbenzene	ND		0.00677	1	12/18/2023 03:47	WG2191210
1,3,5-Trimethylbenzene	ND		0.00677	1	12/18/2023 03:47	WG2191210
Vinyl chloride	ND		0.00338	1	12/18/2023 03:47	WG2191210
Xylenes, Total	ND		0.00880	1	12/18/2023 03:47	WG2191210
(S) Toluene-d8	*100*		*75.0-131*		*12/18/2023 03:47*	WG2191210
(S) 4-Bromofluorobenzene	*103*		*67.0-138*		*12/18/2023 03:47*	WG2191210
(S) 1,2-Dichloroethane-d4	*110*		*70.0-130*		*12/18/2023 03:47*	WG2191210

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.8		1	12/14/2023 13:22	WG2189425

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	47.5		2.44	5	12/17/2023 23:02	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0796	1.12	12/18/2023 04:06	WG2191210
Acrylonitrile	ND		0.0199	1.12	12/18/2023 04:06	WG2191210
Benzene	0.00188		0.00159	1.12	12/18/2023 04:06	WG2191210
Bromobenzene	ND		0.0199	1.12	12/18/2023 04:06	WG2191210
Bromodichloromethane	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
Bromoform	ND		0.0398	1.12	12/18/2023 04:06	WG2191210
Bromomethane	ND		0.0199	1.12	12/18/2023 04:06	WG2191210
n-Butylbenzene	ND		0.0199	1.12	12/18/2023 04:06	WG2191210
sec-Butylbenzene	ND		0.0199	1.12	12/18/2023 04:06	WG2191210
tert-Butylbenzene	ND		0.00796	1.12	12/18/2023 04:06	WG2191210
Carbon tetrachloride	ND	J4	0.00796	1.12	12/18/2023 04:06	WG2191210
Chlorobenzene	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
Chlorodibromomethane	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
Chloroethane	ND		0.00796	1.12	12/18/2023 04:06	WG2191210
Chloroform	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
Chloromethane	ND		0.0199	1.12	12/18/2023 04:06	WG2191210
2-Chlorotoluene	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
4-Chlorotoluene	ND		0.00796	1.12	12/18/2023 04:06	WG2191210
1,2-Dibromo-3-Chloropropane	ND		0.0398	1.12	12/18/2023 04:06	WG2191210
1,2-Dibromoethane	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
Dibromomethane	ND		0.00796	1.12	12/18/2023 04:06	WG2191210
1,2-Dichlorobenzene	ND		0.00796	1.12	12/18/2023 04:06	WG2191210
1,3-Dichlorobenzene	ND		0.00796	1.12	12/18/2023 04:06	WG2191210
1,4-Dichlorobenzene	ND		0.00796	1.12	12/18/2023 04:06	WG2191210
Dichlorodifluoromethane	ND		0.00796	1.12	12/18/2023 04:06	WG2191210
1,1-Dichloroethane	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
1,2-Dichloroethane	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
1,1-Dichloroethene	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
cis-1,2-Dichloroethene	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
trans-1,2-Dichloroethene	ND		0.00796	1.12	12/18/2023 04:06	WG2191210
1,2-Dichloropropane	ND		0.00796	1.12	12/18/2023 04:06	WG2191210
1,1-Dichloropropene	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
1,3-Dichloropropane	ND		0.00796	1.12	12/18/2023 04:06	WG2191210
cis-1,3-Dichloropropene	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
trans-1,3-Dichloropropene	ND		0.00796	1.12	12/18/2023 04:06	WG2191210
2,2-Dichloropropane	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
Di-isopropyl ether	ND		0.00159	1.12	12/18/2023 04:06	WG2191210
Ethylbenzene	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
Hexachloro-1,3-butadiene	ND		0.0398	1.12	12/18/2023 04:06	WG2191210
Isopropylbenzene	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
p-Isopropyltoluene	ND		0.00796	1.12	12/18/2023 04:06	WG2191210
2-Butanone (MEK)	ND		0.159	1.12	12/18/2023 04:06	WG2191210
Methylene Chloride	ND		0.0398	1.12	12/18/2023 04:06	WG2191210
4-Methyl-2-pentanone (MIBK)	ND		0.0398	1.12	12/18/2023 04:06	WG2191210
Methyl tert-butyl ether	ND		0.00159	1.12	12/18/2023 04:06	WG2191210

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	0.0269		0.0199	1.12	12/18/2023 04:06	WG2191210
n-Propylbenzene	ND		0.00796	1.12	12/18/2023 04:06	WG2191210
Styrene	ND		0.0199	1.12	12/18/2023 04:06	WG2191210
1,1,1,2-Tetrachloroethane	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
1,1,2,2-Tetrachloroethane	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
Tetrachloroethene	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
Toluene	0.0222		0.00796	1.12	12/18/2023 04:06	WG2191210
1,2,3-Trichlorobenzene	ND		0.0199	1.12	12/18/2023 04:06	WG2191210
1,2,4-Trichlorobenzene	ND		0.0199	1.12	12/18/2023 04:06	WG2191210
1,1,1-Trichloroethane	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
1,1,2-Trichloroethane	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
Trichloroethene	ND		0.00159	1.12	12/18/2023 04:06	WG2191210
Trichlorofluoromethane	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
1,2,3-Trichloropropane	ND		0.0199	1.12	12/18/2023 04:06	WG2191210
1,2,4-Trimethylbenzene	0.0115		0.00796	1.12	12/18/2023 04:06	WG2191210
1,3,5-Trimethylbenzene	ND		0.00796	1.12	12/18/2023 04:06	WG2191210
Vinyl chloride	ND		0.00398	1.12	12/18/2023 04:06	WG2191210
Xylenes, Total	0.0442		0.0103	1.12	12/18/2023 04:06	WG2191210
(S) Toluene-d8	*97.4*		*75.0-131*		*12/18/2023 04:06*	WG2191210
(S) 4-Bromofluorobenzene	*106*		*67.0-138*		*12/18/2023 04:06*	WG2191210
(S) 1,2-Dichloroethane-d4	*113*		*70.0-130*		*12/18/2023 04:06*	WG2191210

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.2		1	12/14/2023 13:22	WG2189425

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	9.63		2.19	5	12/17/2023 23:06	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0596	1	12/18/2023 04:26	WG2191210
Acrylonitrile	ND		0.0149	1	12/18/2023 04:26	WG2191210
Benzene	0.00172		0.00119	1	12/18/2023 04:26	WG2191210
Bromobenzene	ND		0.0149	1	12/18/2023 04:26	WG2191210
Bromodichloromethane	ND		0.00298	1	12/18/2023 04:26	WG2191210
Bromoform	ND		0.0298	1	12/18/2023 04:26	WG2191210
Bromomethane	ND		0.0149	1	12/18/2023 04:26	WG2191210
n-Butylbenzene	ND		0.0149	1	12/18/2023 04:26	WG2191210
sec-Butylbenzene	ND		0.0149	1	12/18/2023 04:26	WG2191210
tert-Butylbenzene	ND		0.00596	1	12/18/2023 04:26	WG2191210
Carbon tetrachloride	ND	J4	0.00596	1	12/18/2023 04:26	WG2191210
Chlorobenzene	ND		0.00298	1	12/18/2023 04:26	WG2191210
Chlorodibromomethane	ND		0.00298	1	12/18/2023 04:26	WG2191210
Chloroethane	ND		0.00596	1	12/18/2023 04:26	WG2191210
Chloroform	ND		0.00298	1	12/18/2023 04:26	WG2191210
Chloromethane	ND		0.0149	1	12/18/2023 04:26	WG2191210
2-Chlorotoluene	ND		0.00298	1	12/18/2023 04:26	WG2191210
4-Chlorotoluene	ND		0.00596	1	12/18/2023 04:26	WG2191210
1,2-Dibromo-3-Chloropropane	ND		0.0298	1	12/18/2023 04:26	WG2191210
1,2-Dibromoethane	ND		0.00298	1	12/18/2023 04:26	WG2191210
Dibromomethane	ND		0.00596	1	12/18/2023 04:26	WG2191210
1,2-Dichlorobenzene	ND		0.00596	1	12/18/2023 04:26	WG2191210
1,3-Dichlorobenzene	ND		0.00596	1	12/18/2023 04:26	WG2191210
1,4-Dichlorobenzene	ND		0.00596	1	12/18/2023 04:26	WG2191210
Dichlorodifluoromethane	ND		0.00596	1	12/18/2023 04:26	WG2191210
1,1-Dichloroethane	ND		0.00298	1	12/18/2023 04:26	WG2191210
1,2-Dichloroethane	ND		0.00298	1	12/18/2023 04:26	WG2191210
1,1-Dichloroethene	ND		0.00298	1	12/18/2023 04:26	WG2191210
cis-1,2-Dichloroethene	ND		0.00298	1	12/18/2023 04:26	WG2191210
trans-1,2-Dichloroethene	ND		0.00596	1	12/18/2023 04:26	WG2191210
1,2-Dichloropropane	ND		0.00596	1	12/18/2023 04:26	WG2191210
1,1-Dichloropropene	ND		0.00298	1	12/18/2023 04:26	WG2191210
1,3-Dichloropropane	ND		0.00596	1	12/18/2023 04:26	WG2191210
cis-1,3-Dichloropropene	ND		0.00298	1	12/18/2023 04:26	WG2191210
trans-1,3-Dichloropropene	ND		0.00596	1	12/18/2023 04:26	WG2191210
2,2-Dichloropropane	ND		0.00298	1	12/18/2023 04:26	WG2191210
Di-isopropyl ether	ND		0.00119	1	12/18/2023 04:26	WG2191210
Ethylbenzene	ND		0.00298	1	12/18/2023 04:26	WG2191210
Hexachloro-1,3-butadiene	ND		0.0298	1	12/18/2023 04:26	WG2191210
Isopropylbenzene	ND		0.00298	1	12/18/2023 04:26	WG2191210
p-Isopropyltoluene	ND		0.00596	1	12/18/2023 04:26	WG2191210
2-Butanone (MEK)	ND		0.119	1	12/18/2023 04:26	WG2191210
Methylene Chloride	ND		0.0298	1	12/18/2023 04:26	WG2191210
4-Methyl-2-pentanone (MIBK)	ND		0.0298	1	12/18/2023 04:26	WG2191210
Methyl tert-butyl ether	0.00236		0.00119	1	12/18/2023 04:26	WG2191210

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	0.0216		0.0149	1	12/18/2023 04:26	WG2191210
n-Propylbenzene	ND		0.00596	1	12/18/2023 04:26	WG2191210
Styrene	ND		0.0149	1	12/18/2023 04:26	WG2191210
1,1,1,2-Tetrachloroethane	ND		0.00298	1	12/18/2023 04:26	WG2191210
1,1,2,2-Tetrachloroethane	ND		0.00298	1	12/18/2023 04:26	WG2191210
Tetrachloroethene	ND		0.00298	1	12/18/2023 04:26	WG2191210
Toluene	0.0169		0.00596	1	12/18/2023 04:26	WG2191210
1,2,3-Trichlorobenzene	ND		0.0149	1	12/18/2023 04:26	WG2191210
1,2,4-Trichlorobenzene	ND		0.0149	1	12/18/2023 04:26	WG2191210
1,1,1-Trichloroethane	ND		0.00298	1	12/18/2023 04:26	WG2191210
1,1,2-Trichloroethane	ND		0.00298	1	12/18/2023 04:26	WG2191210
Trichloroethene	ND		0.00119	1	12/18/2023 04:26	WG2191210
Trichlorofluoromethane	ND		0.00298	1	12/18/2023 04:26	WG2191210
1,2,3-Trichloropropane	ND		0.0149	1	12/18/2023 04:26	WG2191210
1,2,4-Trimethylbenzene	0.00741		0.00596	1	12/18/2023 04:26	WG2191210
1,3,5-Trimethylbenzene	ND		0.00596	1	12/18/2023 04:26	WG2191210
Vinyl chloride	ND		0.00298	1	12/18/2023 04:26	WG2191210
Xylenes, Total	0.0280		0.00775	1	12/18/2023 04:26	WG2191210
(S) Toluene-d8	*99.8*		*75.0-131*		*12/18/2023 04:26*	WG2191210
(S) 4-Bromofluorobenzene	*104*		*67.0-138*		*12/18/2023 04:26*	WG2191210
(S) 1,2-Dichloroethane-d4	*111*		*70.0-130*		*12/18/2023 04:26*	WG2191210

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.5		1	12/14/2023 13:22	WG2189425

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	162		2.76	5	12/17/2023 23:16	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	C3	0.104	1.24	12/18/2023 11:46	WG2191496
Acrylonitrile	ND		0.0261	1.24	12/18/2023 11:46	WG2191496
Benzene	ND		0.00209	1.24	12/18/2023 11:46	WG2191496
Bromobenzene	ND		0.0261	1.24	12/18/2023 11:46	WG2191496
Bromodichloromethane	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
Bromoform	ND		0.0522	1.24	12/18/2023 11:46	WG2191496
Bromomethane	ND		0.0261	1.24	12/18/2023 11:46	WG2191496
n-Butylbenzene	ND	C3	0.0261	1.24	12/18/2023 11:46	WG2191496
sec-Butylbenzene	ND		0.0261	1.24	12/18/2023 11:46	WG2191496
tert-Butylbenzene	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
Carbon tetrachloride	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
Chlorobenzene	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
Chlorodibromomethane	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
Chloroethane	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
Chloroform	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
Chloromethane	ND		0.0261	1.24	12/18/2023 11:46	WG2191496
2-Chlorotoluene	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
4-Chlorotoluene	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
1,2-Dibromo-3-Chloropropane	ND		0.0522	1.24	12/18/2023 11:46	WG2191496
1,2-Dibromoethane	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
Dibromomethane	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
1,2-Dichlorobenzene	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
1,3-Dichlorobenzene	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
1,4-Dichlorobenzene	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
Dichlorodifluoromethane	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
1,1-Dichloroethane	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
1,2-Dichloroethane	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
1,1-Dichloroethene	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
cis-1,2-Dichloroethene	0.0104		0.00522	1.24	12/18/2023 11:46	WG2191496
trans-1,2-Dichloroethene	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
1,2-Dichloropropane	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
1,1-Dichloropropene	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
1,3-Dichloropropane	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
cis-1,3-Dichloropropene	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
trans-1,3-Dichloropropene	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
2,2-Dichloropropane	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
Di-isopropyl ether	ND		0.00209	1.24	12/18/2023 11:46	WG2191496
Ethylbenzene	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
Hexachloro-1,3-butadiene	ND		0.0522	1.24	12/18/2023 11:46	WG2191496
Isopropylbenzene	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
p-Isopropyltoluene	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
2-Butanone (MEK)	ND		0.209	1.24	12/18/2023 11:46	WG2191496
Methylene Chloride	ND		0.0522	1.24	12/18/2023 11:46	WG2191496
4-Methyl-2-pentanone (MIBK)	ND		0.0522	1.24	12/18/2023 11:46	WG2191496
Methyl tert-butyl ether	ND		0.00209	1.24	12/18/2023 11:46	WG2191496

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3	0.0261	1.24	12/18/2023 11:46	WG2191496
n-Propylbenzene	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
Styrene	ND		0.0261	1.24	12/18/2023 11:46	WG2191496
1,1,1,2-Tetrachloroethane	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
1,1,2,2-Tetrachloroethane	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
Tetrachloroethene	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
Toluene	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
1,2,3-Trichlorobenzene	ND	C3 J3	0.0261	1.24	12/18/2023 11:46	WG2191496
1,2,4-Trichlorobenzene	ND	C3 J3	0.0261	1.24	12/18/2023 11:46	WG2191496
1,1,1-Trichloroethane	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
1,1,2-Trichloroethane	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
Trichloroethene	ND		0.00209	1.24	12/18/2023 11:46	WG2191496
Trichlorofluoromethane	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
1,2,3-Trichloropropane	ND		0.0261	1.24	12/18/2023 11:46	WG2191496
1,2,4-Trimethylbenzene	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
1,3,5-Trimethylbenzene	ND		0.0104	1.24	12/18/2023 11:46	WG2191496
Vinyl chloride	ND		0.00522	1.24	12/18/2023 11:46	WG2191496
Xylenes, Total	ND		0.0136	1.24	12/18/2023 11:46	WG2191496
(S) Toluene-d8	*105*		*75.0-131*		*12/18/2023 11:46*	WG2191496
(S) 4-Bromofluorobenzene	*104*		*67.0-138*		*12/18/2023 11:46*	WG2191496
(S) 1,2-Dichloroethane-d4	*82.0*		*70.0-130*		*12/18/2023 11:46*	WG2191496

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	C3	50.0	1	12/17/2023 23:01	WG2191219
Acrolein	ND		50.0	1	12/17/2023 23:01	WG2191219
Acrylonitrile	ND		10.0	1	12/17/2023 23:01	WG2191219
Benzene	ND		1.00	1	12/17/2023 23:01	WG2191219
Bromobenzene	ND		1.00	1	12/17/2023 23:01	WG2191219
Bromodichloromethane	ND		1.00	1	12/17/2023 23:01	WG2191219
Bromoform	ND		1.00	1	12/17/2023 23:01	WG2191219
Bromomethane	ND	C3	5.00	1	12/17/2023 23:01	WG2191219
n-Butylbenzene	ND		1.00	1	12/17/2023 23:01	WG2191219
sec-Butylbenzene	ND		1.00	1	12/17/2023 23:01	WG2191219
tert-Butylbenzene	ND		1.00	1	12/17/2023 23:01	WG2191219
Carbon tetrachloride	ND		1.00	1	12/17/2023 23:01	WG2191219
Chlorobenzene	ND		1.00	1	12/17/2023 23:01	WG2191219
Chlorodibromomethane	ND		1.00	1	12/17/2023 23:01	WG2191219
Chloroethane	ND	C3	5.00	1	12/17/2023 23:01	WG2191219
Chloroform	ND		5.00	1	12/17/2023 23:01	WG2191219
Chloromethane	ND	J3	2.50	1	12/17/2023 23:01	WG2191219
2-Chlorotoluene	ND		1.00	1	12/17/2023 23:01	WG2191219
4-Chlorotoluene	ND		1.00	1	12/17/2023 23:01	WG2191219
1,2-Dibromo-3-Chloropropane	ND	C3	5.00	1	12/17/2023 23:01	WG2191219
1,2-Dibromoethane	ND		1.00	1	12/17/2023 23:01	WG2191219
Dibromomethane	ND		1.00	1	12/17/2023 23:01	WG2191219
1,2-Dichlorobenzene	ND		1.00	1	12/17/2023 23:01	WG2191219
1,3-Dichlorobenzene	ND		1.00	1	12/17/2023 23:01	WG2191219
1,4-Dichlorobenzene	ND		1.00	1	12/17/2023 23:01	WG2191219
Dichlorodifluoromethane	ND		5.00	1	12/17/2023 23:01	WG2191219
1,1-Dichloroethane	ND		1.00	1	12/17/2023 23:01	WG2191219
1,2-Dichloroethane	ND		1.00	1	12/17/2023 23:01	WG2191219
1,1-Dichloroethene	ND		1.00	1	12/17/2023 23:01	WG2191219
cis-1,2-Dichloroethene	ND		1.00	1	12/17/2023 23:01	WG2191219
trans-1,2-Dichloroethene	ND		1.00	1	12/17/2023 23:01	WG2191219
1,2-Dichloropropane	ND		1.00	1	12/17/2023 23:01	WG2191219
1,1-Dichloropropene	ND		1.00	1	12/17/2023 23:01	WG2191219
1,3-Dichloropropane	ND		1.00	1	12/17/2023 23:01	WG2191219
cis-1,3-Dichloropropene	ND		1.00	1	12/17/2023 23:01	WG2191219
trans-1,3-Dichloropropene	ND		1.00	1	12/17/2023 23:01	WG2191219
2,2-Dichloropropane	ND		1.00	1	12/17/2023 23:01	WG2191219
Di-isopropyl ether	ND		1.00	1	12/17/2023 23:01	WG2191219
Ethylbenzene	ND		1.00	1	12/17/2023 23:01	WG2191219
Hexachloro-1,3-butadiene	ND		1.00	1	12/17/2023 23:01	WG2191219
Isopropylbenzene	ND		1.00	1	12/17/2023 23:01	WG2191219
p-Isopropyltoluene	ND		1.00	1	12/17/2023 23:01	WG2191219
2-Butanone (MEK)	ND		10.0	1	12/17/2023 23:01	WG2191219
Methylene Chloride	ND		5.00	1	12/17/2023 23:01	WG2191219
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/17/2023 23:01	WG2191219
Methyl tert-butyl ether	ND		1.00	1	12/17/2023 23:01	WG2191219
Naphthalene	ND	C3	5.00	1	12/17/2023 23:01	WG2191219
n-Propylbenzene	ND		1.00	1	12/17/2023 23:01	WG2191219
Styrene	ND		1.00	1	12/17/2023 23:01	WG2191219
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/17/2023 23:01	WG2191219
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/17/2023 23:01	WG2191219
Tetrachloroethene	ND		1.00	1	12/17/2023 23:01	WG2191219
Toluene	ND		1.00	1	12/17/2023 23:01	WG2191219
1,2,3-Trichlorobenzene	ND		1.00	1	12/17/2023 23:01	WG2191219
1,2,4-Trichlorobenzene	ND		1.00	1	12/17/2023 23:01	WG2191219
1,1,1-Trichloroethane	ND		1.00	1	12/17/2023 23:01	WG2191219

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		1.00	1	12/17/2023 23:01	WG2191219
Trichloroethene	ND		1.00	1	12/17/2023 23:01	WG2191219
Trichlorofluoromethane	ND		5.00	1	12/17/2023 23:01	WG2191219
1,2,3-Trichloropropane	ND		2.50	1	12/17/2023 23:01	WG2191219
1,2,4-Trimethylbenzene	ND		1.00	1	12/17/2023 23:01	WG2191219
1,3,5-Trimethylbenzene	ND		1.00	1	12/17/2023 23:01	WG2191219
Vinyl chloride	ND	J3	1.00	1	12/17/2023 23:01	WG2191219
Xylenes, Total	ND		3.00	1	12/17/2023 23:01	WG2191219
(S) Toluene-d8	*113*		*80.0-120*		*12/17/2023 23:01*	WG2191219
(S) 4-Bromofluorobenzene	*115*		*77.0-126*		*12/17/2023 23:01*	WG2191219
(S) 1,2-Dichloroethane-d4	*127*		*70.0-130*		*12/17/2023 23:01*	WG2191219

Method Blank (MB)

(MB) R4012799-1 12/14/23 13:22

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1687684-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1687684-03 12/14/23 13:22 • (DUP) R4012799-3 12/14/23 13:22

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	84.1	84.0	1	0.0777		10

Laboratory Control Sample (LCS)

(LCS) R4012799-2 12/14/23 13:22

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

QUALITY CONTROL SUMMARY

L1687684-01,02,03,04,05,06,07,08,09

Method Blank (MB)

(MB) R4013577-1 12/17/23 21:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.0990	2.00

Laboratory Control Sample (LCS)

(LCS) R4013577-2 12/17/23 22:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	91.4	91.4	80.0-120	

L1687684-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1687684-02 12/17/23 22:04 • (MS) R4013577-5 12/17/23 22:13 • (MSD) R4013577-6 12/17/23 22:17

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	123	53.8	136	151	66.6	78.9	5	75.0-125	J6		10.6	20

Method Blank (MB)

(MB) R4013895-2 12/17/23 21:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

Method Blank (MB)

(MB) R4013895-2 12/17/23 21:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*98.3*			*75.0-131*
(S) 4-Bromofluorobenzene	*101*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4013895-1 12/17/23 18:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.620	99.2	10.0-160	
Acrylonitrile	0.625	0.717	115	45.0-153	
Benzene	0.125	0.147	118	70.0-123	
Bromobenzene	0.125	0.135	108	73.0-121	
Bromodichloromethane	0.125	0.148	118	73.0-121	
Bromoform	0.125	0.138	110	64.0-132	
Bromomethane	0.125	0.147	118	56.0-147	

Laboratory Control Sample (LCS)

(LCS) R4013895-1 12/17/23 18:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
n-Butylbenzene	0.125	0.114	91.2	68.0-135	
sec-Butylbenzene	0.125	0.118	94.4	74.0-130	
tert-Butylbenzene	0.125	0.116	92.8	75.0-127	
Carbon tetrachloride	0.125	0.167	134	66.0-128	J4
Chlorobenzene	0.125	0.118	94.4	76.0-128	
Chlorodibromomethane	0.125	0.128	102	74.0-127	
Chloroethane	0.125	0.161	129	61.0-134	
Chloroform	0.125	0.143	114	72.0-123	
Chloromethane	0.125	0.167	134	51.0-138	
2-Chlorotoluene	0.125	0.108	86.4	75.0-124	
4-Chlorotoluene	0.125	0.127	102	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.135	108	59.0-130	
1,2-Dibromoethane	0.125	0.134	107	74.0-128	
Dibromomethane	0.125	0.144	115	75.0-122	
1,2-Dichlorobenzene	0.125	0.120	96.0	76.0-124	
1,3-Dichlorobenzene	0.125	0.127	102	76.0-125	
1,4-Dichlorobenzene	0.125	0.120	96.0	77.0-121	
Dichlorodifluoromethane	0.125	0.177	142	43.0-156	
1,1-Dichloroethane	0.125	0.144	115	70.0-127	
1,2-Dichloroethane	0.125	0.142	114	65.0-131	
1,1-Dichloroethene	0.125	0.155	124	65.0-131	
cis-1,2-Dichloroethene	0.125	0.139	111	73.0-125	
trans-1,2-Dichloroethene	0.125	0.131	105	71.0-125	
1,2-Dichloropropane	0.125	0.139	111	74.0-125	
1,1-Dichloropropene	0.125	0.154	123	73.0-125	
1,3-Dichloropropane	0.125	0.135	108	80.0-125	
cis-1,3-Dichloropropene	0.125	0.146	117	76.0-127	
trans-1,3-Dichloropropene	0.125	0.126	101	73.0-127	
2,2-Dichloropropane	0.125	0.152	122	59.0-135	
Di-isopropyl ether	0.125	0.155	124	60.0-136	
Ethylbenzene	0.125	0.123	98.4	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.150	120	57.0-150	
Isopropylbenzene	0.125	0.114	91.2	72.0-127	
p-Isopropyltoluene	0.125	0.112	89.6	72.0-133	
2-Butanone (MEK)	0.625	0.687	110	30.0-160	
Methylene Chloride	0.125	0.144	115	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.668	107	56.0-143	
Methyl tert-butyl ether	0.125	0.134	107	66.0-132	
Naphthalene	0.125	0.134	107	59.0-130	
n-Propylbenzene	0.125	0.123	98.4	74.0-126	

Laboratory Control Sample (LCS)

(LCS) R4013895-1 12/17/23 18:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Styrene	0.125	0.109	87.2	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.108	86.4	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.126	101	68.0-128	
Tetrachloroethene	0.125	0.138	110	70.0-136	
Toluene	0.125	0.123	98.4	75.0-121	
1,2,3-Trichlorobenzene	0.125	0.146	117	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.122	97.6	62.0-137	
1,1,1-Trichloroethane	0.125	0.157	126	69.0-126	
1,1,2-Trichloroethane	0.125	0.125	100	78.0-123	
Trichloroethene	0.125	0.146	117	76.0-126	
Trichlorofluoromethane	0.125	0.149	119	61.0-142	
1,2,3-Trichloropropane	0.125	0.126	101	67.0-129	
1,2,4-Trimethylbenzene	0.125	0.114	91.2	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.114	91.2	73.0-127	
Vinyl chloride	0.125	0.160	128	63.0-134	
Xylenes, Total	0.375	0.306	81.6	72.0-127	
(S) Toluene-d8			*96.5*	*75.0-131*	
(S) 4-Bromofluorobenzene			*101*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*120*	*70.0-130*	

Method Blank (MB)

(MB) R4014129-3 12/18/23 09:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	0.00153	J	0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

Method Blank (MB)

(MB) R4014129-3 12/18/23 09:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*100*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*81.4*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014129-1 12/18/23 07:53 • (LCSD) R4014129-2 12/18/23 08:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.348	0.386	55.7	61.8	10.0-160			10.4	31
Acrylonitrile	0.625	0.517	0.548	82.7	87.7	45.0-153			5.82	22
Benzene	0.125	0.121	0.121	96.8	96.8	70.0-123			0.000	20
Bromobenzene	0.125	0.135	0.132	108	106	73.0-121			2.25	20
Bromodichloromethane	0.125	0.124	0.124	99.2	99.2	73.0-121			0.000	20
Bromoform	0.125	0.127	0.131	102	105	64.0-132			3.10	20
Bromomethane	0.125	0.117	0.119	93.6	95.2	56.0-147			1.69	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014129-1 12/18/23 07:53 • (LCSD) R4014129-2 12/18/23 08:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
n-Butylbenzene	0.125	0.0964	0.114	77.1	91.2	68.0-135			16.7	20
sec-Butylbenzene	0.125	0.112	0.116	89.6	92.8	74.0-130			3.51	20
tert-Butylbenzene	0.125	0.121	0.122	96.8	97.6	75.0-127			0.823	20
Carbon tetrachloride	0.125	0.138	0.134	110	107	66.0-128			2.94	20
Chlorobenzene	0.125	0.133	0.136	106	109	76.0-128			2.23	20
Chlorodibromomethane	0.125	0.132	0.133	106	106	74.0-127			0.755	20
Chloroethane	0.125	0.116	0.122	92.8	97.6	61.0-134			5.04	20
Chloroform	0.125	0.119	0.120	95.2	96.0	72.0-123			0.837	20
Chloromethane	0.125	0.112	0.110	89.6	88.0	51.0-138			1.80	20
2-Chlorotoluene	0.125	0.120	0.118	96.0	94.4	75.0-124			1.68	20
4-Chlorotoluene	0.125	0.113	0.111	90.4	88.8	75.0-124			1.79	20
1,2-Dibromo-3-Chloropropane	0.125	0.117	0.117	93.6	93.6	59.0-130			0.000	20
1,2-Dibromoethane	0.125	0.131	0.134	105	107	74.0-128			2.26	20
Dibromomethane	0.125	0.132	0.129	106	103	75.0-122			2.30	20
1,2-Dichlorobenzene	0.125	0.115	0.120	92.0	96.0	76.0-124			4.26	20
1,3-Dichlorobenzene	0.125	0.119	0.125	95.2	100	76.0-125			4.92	20
1,4-Dichlorobenzene	0.125	0.117	0.122	93.6	97.6	77.0-121			4.18	20
Dichlorodifluoromethane	0.125	0.140	0.143	112	114	43.0-156			2.12	20
1,1-Dichloroethane	0.125	0.112	0.114	89.6	91.2	70.0-127			1.77	20
1,2-Dichloroethane	0.125	0.114	0.115	91.2	92.0	65.0-131			0.873	20
1,1-Dichloroethene	0.125	0.112	0.112	89.6	89.6	65.0-131			0.000	20
cis-1,2-Dichloroethene	0.125	0.125	0.133	100	106	73.0-125			6.20	20
trans-1,2-Dichloroethene	0.125	0.131	0.133	105	106	71.0-125			1.52	20
1,2-Dichloropropane	0.125	0.123	0.119	98.4	95.2	74.0-125			3.31	20
1,1-Dichloropropene	0.125	0.123	0.126	98.4	101	73.0-125			2.41	20
1,3-Dichloropropane	0.125	0.126	0.125	101	100	80.0-125			0.797	20
cis-1,3-Dichloropropene	0.125	0.124	0.122	99.2	97.6	76.0-127			1.63	20
trans-1,3-Dichloropropene	0.125	0.117	0.116	93.6	92.8	73.0-127			0.858	20
2,2-Dichloropropane	0.125	0.102	0.105	81.6	84.0	59.0-135			2.90	20
Di-isopropyl ether	0.125	0.101	0.101	80.8	80.8	60.0-136			0.000	20
Ethylbenzene	0.125	0.130	0.137	104	110	74.0-126			5.24	20
Hexachloro-1,3-butadiene	0.125	0.123	0.139	98.4	111	57.0-150			12.2	20
Isopropylbenzene	0.125	0.127	0.135	102	108	72.0-127			6.11	20
p-Isopropyltoluene	0.125	0.112	0.118	89.6	94.4	72.0-133			5.22	20
2-Butanone (MEK)	0.625	0.632	0.703	101	112	30.0-160			10.6	24
Methylene Chloride	0.125	0.127	0.119	102	95.2	68.0-123			6.50	20
4-Methyl-2-pentanone (MIBK)	0.625	0.548	0.557	87.7	89.1	56.0-143			1.63	20
Methyl tert-butyl ether	0.125	0.111	0.111	88.8	88.8	66.0-132			0.000	20
Naphthalene	0.125	0.0805	0.0951	64.4	76.1	59.0-130			16.6	20
n-Propylbenzene	0.125	0.113	0.116	90.4	92.8	74.0-126			2.62	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014129-1 12/18/23 07:53 • (LCSD) R4014129-2 12/18/23 08:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Styrene	0.125	0.117	0.127	93.6	102	72.0-127			8.20	20
1,1,1,2-Tetrachloroethane	0.125	0.135	0.135	108	108	74.0-129			0.000	20
1,1,2,2-Tetrachloroethane	0.125	0.106	0.101	84.8	80.8	68.0-128			4.83	20
Tetrachloroethene	0.125	0.154	0.165	123	132	70.0-136			6.90	20
Toluene	0.125	0.135	0.138	108	110	75.0-121			2.20	20
1,2,3-Trichlorobenzene	0.125	0.0753	0.0977	60.2	78.2	59.0-139		J3	25.9	20
1,2,4-Trichlorobenzene	0.125	0.0830	0.106	66.4	84.8	62.0-137		J3	24.3	20
1,1,1-Trichloroethane	0.125	0.132	0.127	106	102	69.0-126			3.86	20
1,1,2-Trichloroethane	0.125	0.141	0.141	113	113	78.0-123			0.000	20
Trichloroethene	0.125	0.154	0.156	123	125	76.0-126			1.29	20
Trichlorofluoromethane	0.125	0.126	0.140	101	112	61.0-142			10.5	20
1,2,3-Trichloropropane	0.125	0.128	0.119	102	95.2	67.0-129			7.29	20
1,2,4-Trimethylbenzene	0.125	0.108	0.112	86.4	89.6	70.0-126			3.64	20
1,3,5-Trimethylbenzene	0.125	0.112	0.112	89.6	89.6	73.0-127			0.000	20
Vinyl chloride	0.125	0.119	0.121	95.2	96.8	63.0-134			1.67	20
Xylenes, Total	0.375	0.339	0.404	90.4	108	72.0-127			17.5	20
(S) Toluene-d8				*103*	*103*	*75.0-131*				
(S) 4-Bromofluorobenzene				*96.7*	*99.8*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*90.0*	*87.9*	*70.0-130*				

Method Blank (MB)

(MB) R4014014-3 12/17/23 21:46

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00

Method Blank (MB)

(MB) R4014014-3 12/17/23 21:46

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	*111*			*80.0-120*
(S) 4-Bromofluorobenzene	*115*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*126*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014014-1 12/17/23 20:43 • (LCSD) R4014014-2 12/17/23 21:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	19.4	24.7	77.6	98.8	19.0-160			24.0	27
Acrolein	25.0	22.6	22.5	90.4	90.0	10.0-160			0.443	26
Acrylonitrile	25.0	27.2	27.7	109	111	55.0-149			1.82	20
Benzene	5.00	4.68	5.28	93.6	106	70.0-123			12.0	20
Bromobenzene	5.00	4.36	4.80	87.2	96.0	73.0-121			9.61	20
Bromodichloromethane	5.00	4.97	5.31	99.4	106	75.0-120			6.61	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014014-1 12/17/23 20:43 • (LCSD) R4014014-2 12/17/23 21:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	5.00	4.02	4.16	80.4	83.2	68.0-132			3.42	20
Bromomethane	5.00	2.94	3.40	58.8	68.0	10.0-160			14.5	25
n-Butylbenzene	5.00	4.24	4.75	84.8	95.0	73.0-125			11.3	20
sec-Butylbenzene	5.00	4.31	4.67	86.2	93.4	75.0-125			8.02	20
tert-Butylbenzene	5.00	4.49	4.94	89.8	98.8	76.0-124			9.54	20
Carbon tetrachloride	5.00	4.97	5.61	99.4	112	68.0-126			12.1	20
Chlorobenzene	5.00	4.42	4.93	88.4	98.6	80.0-121			10.9	20
Chlorodibromomethane	5.00	4.47	4.77	89.4	95.4	77.0-125			6.49	20
Chloroethane	5.00	3.68	4.47	73.6	89.4	47.0-150			19.4	20
Chloroform	5.00	4.91	5.72	98.2	114	73.0-120			15.2	20
Chloromethane	5.00	4.08	5.27	81.6	105	41.0-142		J3	25.5	20
2-Chlorotoluene	5.00	4.45	4.86	89.0	97.2	76.0-123			8.81	20
4-Chlorotoluene	5.00	4.42	4.78	88.4	95.6	75.0-122			7.83	20
1,2-Dibromo-3-Chloropropane	5.00	3.54	3.72	70.8	74.4	58.0-134			4.96	20
1,2-Dibromoethane	5.00	4.44	4.72	88.8	94.4	80.0-122			6.11	20
Dibromomethane	5.00	4.80	5.02	96.0	100	80.0-120			4.48	20
1,2-Dichlorobenzene	5.00	4.50	4.86	90.0	97.2	79.0-121			7.69	20
1,3-Dichlorobenzene	5.00	4.41	4.83	88.2	96.6	79.0-120			9.09	20
1,4-Dichlorobenzene	5.00	4.47	4.97	89.4	99.4	79.0-120			10.6	20
Dichlorodifluoromethane	5.00	4.95	6.00	99.0	120	51.0-149			19.2	20
1,1-Dichloroethane	5.00	4.96	5.54	99.2	111	70.0-126			11.0	20
1,2-Dichloroethane	5.00	5.73	6.18	115	124	70.0-128			7.56	20
1,1-Dichloroethene	5.00	4.31	5.09	86.2	102	71.0-124			16.6	20
cis-1,2-Dichloroethene	5.00	4.93	5.31	98.6	106	73.0-120			7.42	20
trans-1,2-Dichloroethene	5.00	4.45	5.25	89.0	105	73.0-120			16.5	20
1,2-Dichloropropane	5.00	5.06	5.35	101	107	77.0-125			5.57	20
1,1-Dichloropropene	5.00	4.62	5.38	92.4	108	74.0-126			15.2	20
1,3-Dichloropropane	5.00	4.78	5.08	95.6	102	80.0-120			6.09	20
cis-1,3-Dichloropropene	5.00	4.70	5.00	94.0	100	80.0-123			6.19	20
trans-1,3-Dichloropropene	5.00	4.56	4.98	91.2	99.6	78.0-124			8.81	20
2,2-Dichloropropane	5.00	4.71	5.35	94.2	107	58.0-130			12.7	20
Di-isopropyl ether	5.00	5.66	6.04	113	121	58.0-138			6.50	20
Ethylbenzene	5.00	4.37	4.87	87.4	97.4	79.0-123			10.8	20
Hexachloro-1,3-butadiene	5.00	4.37	4.89	87.4	97.8	54.0-138			11.2	20
Isopropylbenzene	5.00	4.67	5.06	93.4	101	76.0-127			8.02	20
p-Isopropyltoluene	5.00	4.57	4.92	91.4	98.4	76.0-125			7.38	20
2-Butanone (MEK)	25.0	22.2	25.7	88.8	103	44.0-160			14.6	20
Methylene Chloride	5.00	4.78	5.23	95.6	105	67.0-120			8.99	20
4-Methyl-2-pentanone (MIBK)	25.0	27.0	28.0	108	112	68.0-142			3.64	20
Methyl tert-butyl ether	5.00	5.15	5.56	103	111	68.0-125			7.66	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014014-1 12/17/23 20:43 • (LCSD) R4014014-2 12/17/23 21:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	5.00	3.55	3.78	71.0	75.6	54.0-135			6.28	20
n-Propylbenzene	5.00	4.30	4.74	86.0	94.8	77.0-124			9.73	20
Styrene	5.00	4.36	4.84	87.2	96.8	73.0-130			10.4	20
1,1,1,2-Tetrachloroethane	5.00	4.44	4.86	88.8	97.2	75.0-125			9.03	20
1,1,2,2-Tetrachloroethane	5.00	4.05	4.48	81.0	89.6	65.0-130			10.1	20
Tetrachloroethene	5.00	4.70	5.25	94.0	105	72.0-132			11.1	20
Toluene	5.00	4.67	5.13	93.4	103	79.0-120			9.39	20
1,2,3-Trichlorobenzene	5.00	4.22	4.44	84.4	88.8	50.0-138			5.08	20
1,2,4-Trichlorobenzene	5.00	4.24	4.56	84.8	91.2	57.0-137			7.27	20
1,1,1-Trichloroethane	5.00	5.10	5.66	102	113	73.0-124			10.4	20
1,1,2-Trichloroethane	5.00	4.70	5.04	94.0	101	80.0-120			6.98	20
Trichloroethene	5.00	4.98	5.42	99.6	108	78.0-124			8.46	20
Trichlorofluoromethane	5.00	4.79	5.55	95.8	111	59.0-147			14.7	20
1,2,3-Trichloropropane	5.00	4.54	4.58	90.8	91.6	73.0-130			0.877	20
1,2,4-Trimethylbenzene	5.00	4.38	4.77	87.6	95.4	76.0-121			8.52	20
1,3,5-Trimethylbenzene	5.00	4.41	4.79	88.2	95.8	76.0-122			8.26	20
Vinyl chloride	5.00	4.04	4.95	80.8	99.0	67.0-131		J3	20.2	20
Xylenes, Total	15.0	13.5	14.9	90.0	99.3	79.0-123			9.86	20
(S) Toluene-d8				*107*	*108*	*80.0-120*				
(S) 4-Bromofluorobenzene				*111*	*110*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*125*	*126*	*70.0-130*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

S&ME Inc. - Raleigh NC

3201 Spring Forest Road
Raleigh, NC 27616

Billing Information:
Accounts Payable
3201 Spring Forest Rd.
(smeinc_invoice@concursolution

Report to: Mr. Jerry Paul

Email To: jpaul@smeinc.com

Project Description: East End Park

City/State Collected: Durham, NC

Please Circle: PT MT CT (ET)

Phone: 919-872-2660

Client Project #

Lab Project # SMERLNC-EASTEND

Collected by (print): Chelsea Parra

Site/Facility ID #

P.O. #

Collected by (signature): UP

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PBG 2ozClr-NoPres	SPLP/TCLP HOLD 4ozClr-NoPres	TS 4ozClr-NoPres	V8260 40mlAmb-HCl-Blk	V8260 40mlAmb/MeOH10ml/Syr	Pres Chk	Remarks	Sample # (lab only)
823-SB-01	C	SS	(0-1)	12/12/23	1100	4	X	X	X		X			-01
823-SB-02		SS			1110	4	X	X	X		X			-02
823-SB-03		SS			1120	4	X	X	X		X			-03
823-SB-04		SS			1130	4	X	X	X		X			-04
823-SB-05		SS			1145	4	X	X	X		X			-05
823-SB-06		SS			1310	4	X	X	X		X			-06
823-SB-07		SS			1210	4	X	X	X		X			-07
823-SB-08		SS			1335	4	X	X	X		X			-08
DUP-SB		SS			-	4	X	X	X		X			-09
Trip Blank		~~SS~~ GW				4 UP	~~X~~	~~X~~	~~X~~	X	~~X~~			-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: ~~SPLP~~ SPLP/TCLP on hold

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 7155 0298 3054

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
UP	12/12/23	1730	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) TRENA

Trip Blank Received: (Yes) / No
HCl / MeoH
TBR ~~SDM~~ 12/14/23 TR

Temp: MJAB °C 1.5+0=1.5

Bottles Received: 36

Date: 12/13/23 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1687684
C180

Acctnum: SMERLNC
Template: T243172
Prelogin: P1042525
PM: 034 - Craig Cothron
PB:

Shipped Via: FedEx Ground

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

ANALYTICAL REPORT

December 29, 2023

S&ME Inc. - Raleigh NC

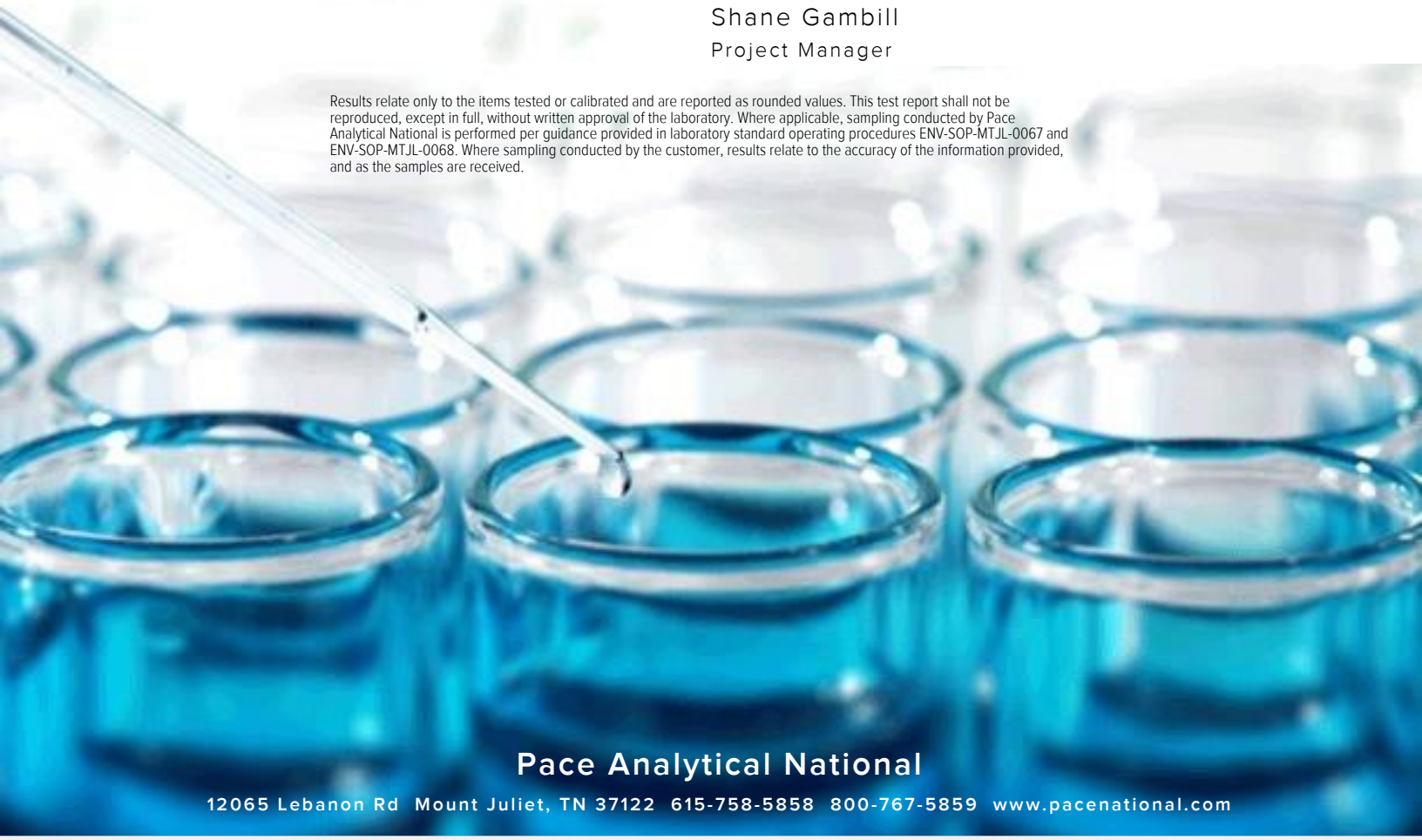
Sample Delivery Group:	L1687721
Samples Received:	12/13/2023
Project Number:	
Description:	East End Park

Report To: Mr. Jerry Paul
3201 Spring Forest Road
Raleigh, NC 27616

Entire Report Reviewed By:

Shane Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 5

Sr: Sample Results 6

823-SB-09 L1687721-01 6

823-SB-10 L1687721-02 8

823-SB-11 L1687721-03 10

823-SB-12 L1687721-04 12

823-SB-13 L1687721-05 14

823-SB-14 L1687721-06 16

823-SB-15 L1687721-07 18

823-SB-16 L1687721-08 20

TRIP BLANK L1687721-09 22

Qc: Quality Control Summary 24

Total Solids by Method 2540 G-2011 24

Metals (ICPMS) by Method 6020 25

Volatile Organic Compounds (GC/MS) by Method 8260D 27

Gl: Glossary of Terms 35

Al: Accreditations & Locations 36

Sc: Sample Chain of Custody 37

SAMPLE SUMMARY

823-SB-09 L1687721-01 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 14:00 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189426	1	12/14/23 13:27	12/14/23 13:39	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 23:19	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191496	1	12/12/23 14:00	12/18/23 12:06	JHH	Mt. Juliet, TN

823-SB-10 L1687721-02 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 16:35 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189426	1	12/14/23 13:27	12/14/23 13:39	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 23:22	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191496	1.19	12/12/23 16:35	12/18/23 12:25	JHH	Mt. Juliet, TN

823-SB-11 L1687721-03 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 15:00 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189426	1	12/14/23 13:27	12/14/23 13:39	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 23:25	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191496	1.09	12/12/23 15:00	12/18/23 12:44	JHH	Mt. Juliet, TN

823-SB-12 L1687721-04 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 14:35 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189426	1	12/14/23 13:27	12/14/23 13:39	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 23:29	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191496	1.05	12/12/23 14:35	12/18/23 13:03	JHH	Mt. Juliet, TN

823-SB-13 L1687721-05 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 14:05 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189426	1	12/14/23 13:27	12/14/23 13:39	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190443	5	12/17/23 07:24	12/29/23 00:02	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191496	1.01	12/12/23 14:05	12/18/23 13:22	JHH	Mt. Juliet, TN

823-SB-14 L1687721-06 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 16:40 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189426	1	12/14/23 13:27	12/14/23 13:39	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 23:32	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191496	1.05	12/12/23 16:40	12/18/23 14:00	JHH	Mt. Juliet, TN

SAMPLE SUMMARY

823-SB-15 L1687721-07 Solid

Collected by: Chelsea Parra
Collected date/time: 12/12/23 15:05
Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189426	1	12/14/23 13:27	12/14/23 13:39	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190443	5	12/17/23 07:24	12/29/23 00:05	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191496	1.03	12/12/23 15:05	12/18/23 14:19	JHH	Mt. Juliet, TN

823-SB-16 L1687721-08 Solid

Collected by: Chelsea Parra
Collected date/time: 12/12/23 14:40
Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189426	1	12/14/23 13:27	12/14/23 13:39	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190443	5	12/17/23 07:24	12/29/23 00:08	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191496	1.1	12/12/23 14:40	12/18/23 14:39	JHH	Mt. Juliet, TN

TRIP BLANK L1687721-09 GW

Collected by: Chelsea Parra
Collected date/time: 12/12/23 00:00
Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191219	1	12/17/23 23:22	12/17/23 23:22	JCP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Shane Gambill
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.9		1	12/14/2023 13:39	WG2189426

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	165		2.28	5	12/17/2023 23:19	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	C3	0.0640	1	12/18/2023 12:06	WG2191496
Acrylonitrile	ND		0.0160	1	12/18/2023 12:06	WG2191496
Benzene	ND		0.00128	1	12/18/2023 12:06	WG2191496
Bromobenzene	ND		0.0160	1	12/18/2023 12:06	WG2191496
Bromodichloromethane	ND		0.00320	1	12/18/2023 12:06	WG2191496
Bromoform	ND		0.0320	1	12/18/2023 12:06	WG2191496
Bromomethane	ND		0.0160	1	12/18/2023 12:06	WG2191496
n-Butylbenzene	ND	C3	0.0160	1	12/18/2023 12:06	WG2191496
sec-Butylbenzene	ND		0.0160	1	12/18/2023 12:06	WG2191496
tert-Butylbenzene	ND		0.00640	1	12/18/2023 12:06	WG2191496
Carbon tetrachloride	ND		0.00640	1	12/18/2023 12:06	WG2191496
Chlorobenzene	ND		0.00320	1	12/18/2023 12:06	WG2191496
Chlorodibromomethane	ND		0.00320	1	12/18/2023 12:06	WG2191496
Chloroethane	ND		0.00640	1	12/18/2023 12:06	WG2191496
Chloroform	ND		0.00320	1	12/18/2023 12:06	WG2191496
Chloromethane	ND		0.0160	1	12/18/2023 12:06	WG2191496
2-Chlorotoluene	ND		0.00320	1	12/18/2023 12:06	WG2191496
4-Chlorotoluene	ND		0.00640	1	12/18/2023 12:06	WG2191496
1,2-Dibromo-3-Chloropropane	ND		0.0320	1	12/18/2023 12:06	WG2191496
1,2-Dibromoethane	ND		0.00320	1	12/18/2023 12:06	WG2191496
Dibromomethane	ND		0.00640	1	12/18/2023 12:06	WG2191496
1,2-Dichlorobenzene	ND		0.00640	1	12/18/2023 12:06	WG2191496
1,3-Dichlorobenzene	ND		0.00640	1	12/18/2023 12:06	WG2191496
1,4-Dichlorobenzene	ND		0.00640	1	12/18/2023 12:06	WG2191496
Dichlorodifluoromethane	ND		0.00640	1	12/18/2023 12:06	WG2191496
1,1-Dichloroethane	ND		0.00320	1	12/18/2023 12:06	WG2191496
1,2-Dichloroethane	ND		0.00320	1	12/18/2023 12:06	WG2191496
1,1-Dichloroethene	ND		0.00320	1	12/18/2023 12:06	WG2191496
cis-1,2-Dichloroethene	ND		0.00320	1	12/18/2023 12:06	WG2191496
trans-1,2-Dichloroethene	ND		0.00640	1	12/18/2023 12:06	WG2191496
1,2-Dichloropropane	ND		0.00640	1	12/18/2023 12:06	WG2191496
1,1-Dichloropropene	ND		0.00320	1	12/18/2023 12:06	WG2191496
1,3-Dichloropropane	ND		0.00640	1	12/18/2023 12:06	WG2191496
cis-1,3-Dichloropropene	ND		0.00320	1	12/18/2023 12:06	WG2191496
trans-1,3-Dichloropropene	ND		0.00640	1	12/18/2023 12:06	WG2191496
2,2-Dichloropropane	ND		0.00320	1	12/18/2023 12:06	WG2191496
Di-isopropyl ether	ND		0.00128	1	12/18/2023 12:06	WG2191496
Ethylbenzene	ND		0.00320	1	12/18/2023 12:06	WG2191496
Hexachloro-1,3-butadiene	ND		0.0320	1	12/18/2023 12:06	WG2191496
Isopropylbenzene	ND		0.00320	1	12/18/2023 12:06	WG2191496
p-Isopropyltoluene	ND		0.00640	1	12/18/2023 12:06	WG2191496
2-Butanone (MEK)	ND		0.128	1	12/18/2023 12:06	WG2191496
Methylene Chloride	ND		0.0320	1	12/18/2023 12:06	WG2191496
4-Methyl-2-pentanone (MIBK)	ND		0.0320	1	12/18/2023 12:06	WG2191496
Methyl tert-butyl ether	ND		0.00128	1	12/18/2023 12:06	WG2191496

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3	0.0160	1	12/18/2023 12:06	WG2191496
n-Propylbenzene	ND		0.00640	1	12/18/2023 12:06	WG2191496
Styrene	ND		0.0160	1	12/18/2023 12:06	WG2191496
1,1,1,2-Tetrachloroethane	ND		0.00320	1	12/18/2023 12:06	WG2191496
1,1,2,2-Tetrachloroethane	ND		0.00320	1	12/18/2023 12:06	WG2191496
Tetrachloroethene	ND		0.00320	1	12/18/2023 12:06	WG2191496
Toluene	ND		0.00640	1	12/18/2023 12:06	WG2191496
1,2,3-Trichlorobenzene	ND	C3 J3	0.0160	1	12/18/2023 12:06	WG2191496
1,2,4-Trichlorobenzene	ND	C3 J3	0.0160	1	12/18/2023 12:06	WG2191496
1,1,1-Trichloroethane	ND		0.00320	1	12/18/2023 12:06	WG2191496
1,1,2-Trichloroethane	ND		0.00320	1	12/18/2023 12:06	WG2191496
Trichloroethene	ND		0.00128	1	12/18/2023 12:06	WG2191496
Trichlorofluoromethane	ND		0.00320	1	12/18/2023 12:06	WG2191496
1,2,3-Trichloropropane	ND		0.0160	1	12/18/2023 12:06	WG2191496
1,2,4-Trimethylbenzene	ND		0.00640	1	12/18/2023 12:06	WG2191496
1,3,5-Trimethylbenzene	ND		0.00640	1	12/18/2023 12:06	WG2191496
Vinyl chloride	ND		0.00320	1	12/18/2023 12:06	WG2191496
Xylenes, Total	ND		0.00833	1	12/18/2023 12:06	WG2191496
(S) Toluene-d8	*104*		*75.0-131*		*12/18/2023 12:06*	WG2191496
(S) 4-Bromofluorobenzene	*101*		*67.0-138*		*12/18/2023 12:06*	WG2191496
(S) 1,2-Dichloroethane-d4	*81.3*		*70.0-130*		*12/18/2023 12:06*	WG2191496

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.6		1	12/14/2023 13:39	WG2189426

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	78.2		2.39	5	12/17/2023 23:22	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	C3	0.0810	1.19	12/18/2023 12:25	WG2191496
Acrylonitrile	ND		0.0203	1.19	12/18/2023 12:25	WG2191496
Benzene	ND		0.00162	1.19	12/18/2023 12:25	WG2191496
Bromobenzene	ND		0.0203	1.19	12/18/2023 12:25	WG2191496
Bromodichloromethane	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
Bromoform	ND		0.0404	1.19	12/18/2023 12:25	WG2191496
Bromomethane	ND		0.0203	1.19	12/18/2023 12:25	WG2191496
n-Butylbenzene	ND	C3	0.0203	1.19	12/18/2023 12:25	WG2191496
sec-Butylbenzene	ND		0.0203	1.19	12/18/2023 12:25	WG2191496
tert-Butylbenzene	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
Carbon tetrachloride	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
Chlorobenzene	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
Chlorodibromomethane	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
Chloroethane	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
Chloroform	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
Chloromethane	ND		0.0203	1.19	12/18/2023 12:25	WG2191496
2-Chlorotoluene	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
4-Chlorotoluene	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
1,2-Dibromo-3-Chloropropane	ND		0.0404	1.19	12/18/2023 12:25	WG2191496
1,2-Dibromoethane	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
Dibromomethane	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
1,2-Dichlorobenzene	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
1,3-Dichlorobenzene	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
1,4-Dichlorobenzene	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
Dichlorodifluoromethane	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
1,1-Dichloroethane	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
1,2-Dichloroethane	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
1,1-Dichloroethene	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
cis-1,2-Dichloroethene	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
trans-1,2-Dichloroethene	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
1,2-Dichloropropane	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
1,1-Dichloropropene	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
1,3-Dichloropropane	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
cis-1,3-Dichloropropene	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
trans-1,3-Dichloropropene	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
2,2-Dichloropropane	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
Di-isopropyl ether	ND		0.00162	1.19	12/18/2023 12:25	WG2191496
Ethylbenzene	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
Hexachloro-1,3-butadiene	ND		0.0404	1.19	12/18/2023 12:25	WG2191496
Isopropylbenzene	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
p-Isopropyltoluene	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
2-Butanone (MEK)	ND		0.162	1.19	12/18/2023 12:25	WG2191496
Methylene Chloride	ND		0.0404	1.19	12/18/2023 12:25	WG2191496
4-Methyl-2-pentanone (MIBK)	ND		0.0404	1.19	12/18/2023 12:25	WG2191496
Methyl tert-butyl ether	ND		0.00162	1.19	12/18/2023 12:25	WG2191496

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3	0.0203	1.19	12/18/2023 12:25	WG2191496
n-Propylbenzene	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
Styrene	ND		0.0203	1.19	12/18/2023 12:25	WG2191496
1,1,1,2-Tetrachloroethane	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
1,1,2,2-Tetrachloroethane	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
Tetrachloroethene	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
Toluene	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
1,2,3-Trichlorobenzene	ND	C3 J3	0.0203	1.19	12/18/2023 12:25	WG2191496
1,2,4-Trichlorobenzene	ND	C3 J3	0.0203	1.19	12/18/2023 12:25	WG2191496
1,1,1-Trichloroethane	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
1,1,2-Trichloroethane	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
Trichloroethene	ND		0.00162	1.19	12/18/2023 12:25	WG2191496
Trichlorofluoromethane	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
1,2,3-Trichloropropane	ND		0.0203	1.19	12/18/2023 12:25	WG2191496
1,2,4-Trimethylbenzene	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
1,3,5-Trimethylbenzene	ND		0.00810	1.19	12/18/2023 12:25	WG2191496
Vinyl chloride	ND		0.00404	1.19	12/18/2023 12:25	WG2191496
Xylenes, Total	ND		0.0105	1.19	12/18/2023 12:25	WG2191496
(S) Toluene-d8	*105*		*75.0-131*		*12/18/2023 12:25*	WG2191496
(S) 4-Bromofluorobenzene	*103*		*67.0-138*		*12/18/2023 12:25*	WG2191496
(S) 1,2-Dichloroethane-d4	*82.9*		*70.0-130*		*12/18/2023 12:25*	WG2191496

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.7		1	12/14/2023 13:39	WG2189426

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	135		2.36	5	12/17/2023 23:25	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	C3	0.0734	1.09	12/18/2023 12:44	WG2191496
Acrylonitrile	ND		0.0183	1.09	12/18/2023 12:44	WG2191496
Benzene	0.00206		0.00147	1.09	12/18/2023 12:44	WG2191496
Bromobenzene	ND		0.0183	1.09	12/18/2023 12:44	WG2191496
Bromodichloromethane	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
Bromoform	ND		0.0368	1.09	12/18/2023 12:44	WG2191496
Bromomethane	ND		0.0183	1.09	12/18/2023 12:44	WG2191496
n-Butylbenzene	ND	C3	0.0183	1.09	12/18/2023 12:44	WG2191496
sec-Butylbenzene	ND		0.0183	1.09	12/18/2023 12:44	WG2191496
tert-Butylbenzene	ND		0.00734	1.09	12/18/2023 12:44	WG2191496
Carbon tetrachloride	ND		0.00734	1.09	12/18/2023 12:44	WG2191496
Chlorobenzene	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
Chlorodibromomethane	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
Chloroethane	ND		0.00734	1.09	12/18/2023 12:44	WG2191496
Chloroform	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
Chloromethane	ND		0.0183	1.09	12/18/2023 12:44	WG2191496
2-Chlorotoluene	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
4-Chlorotoluene	ND		0.00734	1.09	12/18/2023 12:44	WG2191496
1,2-Dibromo-3-Chloropropane	ND		0.0368	1.09	12/18/2023 12:44	WG2191496
1,2-Dibromoethane	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
Dibromomethane	ND		0.00734	1.09	12/18/2023 12:44	WG2191496
1,2-Dichlorobenzene	ND		0.00734	1.09	12/18/2023 12:44	WG2191496
1,3-Dichlorobenzene	ND		0.00734	1.09	12/18/2023 12:44	WG2191496
1,4-Dichlorobenzene	ND		0.00734	1.09	12/18/2023 12:44	WG2191496
Dichlorodifluoromethane	ND		0.00734	1.09	12/18/2023 12:44	WG2191496
1,1-Dichloroethane	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
1,2-Dichloroethane	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
1,1-Dichloroethene	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
cis-1,2-Dichloroethene	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
trans-1,2-Dichloroethene	ND		0.00734	1.09	12/18/2023 12:44	WG2191496
1,2-Dichloropropane	ND		0.00734	1.09	12/18/2023 12:44	WG2191496
1,1-Dichloropropene	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
1,3-Dichloropropane	ND		0.00734	1.09	12/18/2023 12:44	WG2191496
cis-1,3-Dichloropropene	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
trans-1,3-Dichloropropene	ND		0.00734	1.09	12/18/2023 12:44	WG2191496
2,2-Dichloropropane	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
Di-isopropyl ether	ND		0.00147	1.09	12/18/2023 12:44	WG2191496
Ethylbenzene	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
Hexachloro-1,3-butadiene	ND		0.0368	1.09	12/18/2023 12:44	WG2191496
Isopropylbenzene	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
p-Isopropyltoluene	ND		0.00734	1.09	12/18/2023 12:44	WG2191496
2-Butanone (MEK)	ND		0.147	1.09	12/18/2023 12:44	WG2191496
Methylene Chloride	ND		0.0368	1.09	12/18/2023 12:44	WG2191496
4-Methyl-2-pentanone (MIBK)	ND		0.0368	1.09	12/18/2023 12:44	WG2191496
Methyl tert-butyl ether	ND		0.00147	1.09	12/18/2023 12:44	WG2191496

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	0.0218	C3	0.0183	1.09	12/18/2023 12:44	WG2191496
n-Propylbenzene	ND		0.00734	1.09	12/18/2023 12:44	WG2191496
Styrene	ND		0.0183	1.09	12/18/2023 12:44	WG2191496
1,1,1,2-Tetrachloroethane	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
1,1,2,2-Tetrachloroethane	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
Tetrachloroethene	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
Toluene	0.0172		0.00734	1.09	12/18/2023 12:44	WG2191496
1,2,3-Trichlorobenzene	ND	C3 J3	0.0183	1.09	12/18/2023 12:44	WG2191496
1,2,4-Trichlorobenzene	ND	C3 J3	0.0183	1.09	12/18/2023 12:44	WG2191496
1,1,1-Trichloroethane	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
1,1,2-Trichloroethane	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
Trichloroethene	ND		0.00147	1.09	12/18/2023 12:44	WG2191496
Trichlorofluoromethane	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
1,2,3-Trichloropropane	ND		0.0183	1.09	12/18/2023 12:44	WG2191496
1,2,4-Trimethylbenzene	ND		0.00734	1.09	12/18/2023 12:44	WG2191496
1,3,5-Trimethylbenzene	ND		0.00734	1.09	12/18/2023 12:44	WG2191496
Vinyl chloride	ND		0.00368	1.09	12/18/2023 12:44	WG2191496
Xylenes, Total	0.0344		0.00954	1.09	12/18/2023 12:44	WG2191496
(S) Toluene-d8	*103*		*75.0-131*		*12/18/2023 12:44*	WG2191496
(S) 4-Bromofluorobenzene	*101*		*67.0-138*		*12/18/2023 12:44*	WG2191496
(S) 1,2-Dichloroethane-d4	*85.9*		*70.0-130*		*12/18/2023 12:44*	WG2191496

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.5		1	12/14/2023 13:39	WG2189426

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	136		2.42	5	12/17/2023 23:29	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	C3	0.0742	1.05	12/18/2023 13:03	WG2191496
Acrylonitrile	ND		0.0185	1.05	12/18/2023 13:03	WG2191496
Benzene	0.00178		0.00148	1.05	12/18/2023 13:03	WG2191496
Bromobenzene	ND		0.0185	1.05	12/18/2023 13:03	WG2191496
Bromodichloromethane	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
Bromoform	ND		0.0372	1.05	12/18/2023 13:03	WG2191496
Bromomethane	ND		0.0185	1.05	12/18/2023 13:03	WG2191496
n-Butylbenzene	ND	C3	0.0185	1.05	12/18/2023 13:03	WG2191496
sec-Butylbenzene	ND		0.0185	1.05	12/18/2023 13:03	WG2191496
tert-Butylbenzene	ND		0.00742	1.05	12/18/2023 13:03	WG2191496
Carbon tetrachloride	ND		0.00742	1.05	12/18/2023 13:03	WG2191496
Chlorobenzene	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
Chlorodibromomethane	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
Chloroethane	ND		0.00742	1.05	12/18/2023 13:03	WG2191496
Chloroform	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
Chloromethane	ND		0.0185	1.05	12/18/2023 13:03	WG2191496
2-Chlorotoluene	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
4-Chlorotoluene	ND		0.00742	1.05	12/18/2023 13:03	WG2191496
1,2-Dibromo-3-Chloropropane	ND		0.0372	1.05	12/18/2023 13:03	WG2191496
1,2-Dibromoethane	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
Dibromomethane	ND		0.00742	1.05	12/18/2023 13:03	WG2191496
1,2-Dichlorobenzene	ND		0.00742	1.05	12/18/2023 13:03	WG2191496
1,3-Dichlorobenzene	ND		0.00742	1.05	12/18/2023 13:03	WG2191496
1,4-Dichlorobenzene	ND		0.00742	1.05	12/18/2023 13:03	WG2191496
Dichlorodifluoromethane	ND		0.00742	1.05	12/18/2023 13:03	WG2191496
1,1-Dichloroethane	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
1,2-Dichloroethane	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
1,1-Dichloroethene	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
cis-1,2-Dichloroethene	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
trans-1,2-Dichloroethene	ND		0.00742	1.05	12/18/2023 13:03	WG2191496
1,2-Dichloropropane	ND		0.00742	1.05	12/18/2023 13:03	WG2191496
1,1-Dichloropropene	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
1,3-Dichloropropane	ND		0.00742	1.05	12/18/2023 13:03	WG2191496
cis-1,3-Dichloropropene	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
trans-1,3-Dichloropropene	ND		0.00742	1.05	12/18/2023 13:03	WG2191496
2,2-Dichloropropane	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
Di-isopropyl ether	ND		0.00148	1.05	12/18/2023 13:03	WG2191496
Ethylbenzene	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
Hexachloro-1,3-butadiene	ND		0.0372	1.05	12/18/2023 13:03	WG2191496
Isopropylbenzene	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
p-Isopropyltoluene	ND		0.00742	1.05	12/18/2023 13:03	WG2191496
2-Butanone (MEK)	ND		0.148	1.05	12/18/2023 13:03	WG2191496
Methylene Chloride	ND		0.0372	1.05	12/18/2023 13:03	WG2191496
4-Methyl-2-pentanone (MIBK)	ND		0.0372	1.05	12/18/2023 13:03	WG2191496
Methyl tert-butyl ether	ND		0.00148	1.05	12/18/2023 13:03	WG2191496

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3	0.0185	1.05	12/18/2023 13:03	WG2191496
n-Propylbenzene	ND		0.00742	1.05	12/18/2023 13:03	WG2191496
Styrene	ND		0.0185	1.05	12/18/2023 13:03	WG2191496
1,1,1,2-Tetrachloroethane	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
1,1,2,2-Tetrachloroethane	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
Tetrachloroethene	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
Toluene	0.0119		0.00742	1.05	12/18/2023 13:03	WG2191496
1,2,3-Trichlorobenzene	ND	C3 J3	0.0185	1.05	12/18/2023 13:03	WG2191496
1,2,4-Trichlorobenzene	ND	C3 J3	0.0185	1.05	12/18/2023 13:03	WG2191496
1,1,1-Trichloroethane	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
1,1,2-Trichloroethane	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
Trichloroethene	ND		0.00148	1.05	12/18/2023 13:03	WG2191496
Trichlorofluoromethane	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
1,2,3-Trichloropropane	ND		0.0185	1.05	12/18/2023 13:03	WG2191496
1,2,4-Trimethylbenzene	ND		0.00742	1.05	12/18/2023 13:03	WG2191496
1,3,5-Trimethylbenzene	ND		0.00742	1.05	12/18/2023 13:03	WG2191496
Vinyl chloride	ND		0.00372	1.05	12/18/2023 13:03	WG2191496
Xylenes, Total	0.0223		0.00966	1.05	12/18/2023 13:03	WG2191496
(S) Toluene-d8	*104*		*75.0-131*		*12/18/2023 13:03*	WG2191496
(S) 4-Bromofluorobenzene	*99.9*		*67.0-138*		*12/18/2023 13:03*	WG2191496
(S) 1,2-Dichloroethane-d4	*78.9*		*70.0-130*		*12/18/2023 13:03*	WG2191496

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.4		1	12/14/2023 13:39	WG2189426

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	63.7		2.29	5	12/29/2023 00:02	WG2190443

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	C3	0.0650	1.01	12/18/2023 13:22	WG2191496
Acrylonitrile	ND		0.0162	1.01	12/18/2023 13:22	WG2191496
Benzene	ND		0.00130	1.01	12/18/2023 13:22	WG2191496
Bromobenzene	ND		0.0162	1.01	12/18/2023 13:22	WG2191496
Bromodichloromethane	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
Bromoform	ND		0.0326	1.01	12/18/2023 13:22	WG2191496
Bromomethane	ND		0.0162	1.01	12/18/2023 13:22	WG2191496
n-Butylbenzene	ND	C3	0.0162	1.01	12/18/2023 13:22	WG2191496
sec-Butylbenzene	ND		0.0162	1.01	12/18/2023 13:22	WG2191496
tert-Butylbenzene	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
Carbon tetrachloride	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
Chlorobenzene	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
Chlorodibromomethane	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
Chloroethane	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
Chloroform	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
Chloromethane	ND		0.0162	1.01	12/18/2023 13:22	WG2191496
2-Chlorotoluene	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
4-Chlorotoluene	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
1,2-Dibromo-3-Chloropropane	ND		0.0326	1.01	12/18/2023 13:22	WG2191496
1,2-Dibromoethane	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
Dibromomethane	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
1,2-Dichlorobenzene	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
1,3-Dichlorobenzene	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
1,4-Dichlorobenzene	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
Dichlorodifluoromethane	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
1,1-Dichloroethane	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
1,2-Dichloroethane	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
1,1-Dichloroethene	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
cis-1,2-Dichloroethene	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
trans-1,2-Dichloroethene	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
1,2-Dichloropropane	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
1,1-Dichloropropene	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
1,3-Dichloropropane	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
cis-1,3-Dichloropropene	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
trans-1,3-Dichloropropene	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
2,2-Dichloropropane	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
Di-isopropyl ether	ND		0.00130	1.01	12/18/2023 13:22	WG2191496
Ethylbenzene	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
Hexachloro-1,3-butadiene	ND		0.0326	1.01	12/18/2023 13:22	WG2191496
Isopropylbenzene	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
p-Isopropyltoluene	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
2-Butanone (MEK)	ND		0.130	1.01	12/18/2023 13:22	WG2191496
Methylene Chloride	ND		0.0326	1.01	12/18/2023 13:22	WG2191496
4-Methyl-2-pentanone (MIBK)	ND		0.0326	1.01	12/18/2023 13:22	WG2191496
Methyl tert-butyl ether	ND		0.00130	1.01	12/18/2023 13:22	WG2191496

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3	0.0162	1.01	12/18/2023 13:22	WG2191496
n-Propylbenzene	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
Styrene	ND		0.0162	1.01	12/18/2023 13:22	WG2191496
1,1,1,2-Tetrachloroethane	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
1,1,2,2-Tetrachloroethane	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
Tetrachloroethene	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
Toluene	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
1,2,3-Trichlorobenzene	ND	C3 J3	0.0162	1.01	12/18/2023 13:22	WG2191496
1,2,4-Trichlorobenzene	ND	C3 J3	0.0162	1.01	12/18/2023 13:22	WG2191496
1,1,1-Trichloroethane	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
1,1,2-Trichloroethane	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
Trichloroethene	ND		0.00130	1.01	12/18/2023 13:22	WG2191496
Trichlorofluoromethane	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
1,2,3-Trichloropropane	ND		0.0162	1.01	12/18/2023 13:22	WG2191496
1,2,4-Trimethylbenzene	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
1,3,5-Trimethylbenzene	ND		0.00650	1.01	12/18/2023 13:22	WG2191496
Vinyl chloride	ND		0.00326	1.01	12/18/2023 13:22	WG2191496
Xylenes, Total	ND		0.00845	1.01	12/18/2023 13:22	WG2191496
(S) Toluene-d8	*103*		*75.0-131*		*12/18/2023 13:22*	WG2191496
(S) 4-Bromofluorobenzene	*101*		*67.0-138*		*12/18/2023 13:22*	WG2191496
(S) 1,2-Dichloroethane-d4	*77.2*		*70.0-130*		*12/18/2023 13:22*	WG2191496

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.8		1	12/14/2023 13:39	WG2189426

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	36.0		2.36	5	12/17/2023 23:32	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	C3	0.0709	1.05	12/18/2023 14:00	WG2191496
Acrylonitrile	ND		0.0177	1.05	12/18/2023 14:00	WG2191496
Benzene	ND		0.00142	1.05	12/18/2023 14:00	WG2191496
Bromobenzene	ND		0.0177	1.05	12/18/2023 14:00	WG2191496
Bromodichloromethane	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
Bromoform	ND		0.0355	1.05	12/18/2023 14:00	WG2191496
Bromomethane	ND		0.0177	1.05	12/18/2023 14:00	WG2191496
n-Butylbenzene	ND	C3	0.0177	1.05	12/18/2023 14:00	WG2191496
sec-Butylbenzene	ND		0.0177	1.05	12/18/2023 14:00	WG2191496
tert-Butylbenzene	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
Carbon tetrachloride	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
Chlorobenzene	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
Chlorodibromomethane	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
Chloroethane	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
Chloroform	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
Chloromethane	ND		0.0177	1.05	12/18/2023 14:00	WG2191496
2-Chlorotoluene	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
4-Chlorotoluene	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
1,2-Dibromo-3-Chloropropane	ND		0.0355	1.05	12/18/2023 14:00	WG2191496
1,2-Dibromoethane	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
Dibromomethane	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
1,2-Dichlorobenzene	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
1,3-Dichlorobenzene	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
1,4-Dichlorobenzene	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
Dichlorodifluoromethane	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
1,1-Dichloroethane	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
1,2-Dichloroethane	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
1,1-Dichloroethene	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
cis-1,2-Dichloroethene	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
trans-1,2-Dichloroethene	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
1,2-Dichloropropane	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
1,1-Dichloropropene	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
1,3-Dichloropropane	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
cis-1,3-Dichloropropene	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
trans-1,3-Dichloropropene	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
2,2-Dichloropropane	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
Di-isopropyl ether	ND		0.00142	1.05	12/18/2023 14:00	WG2191496
Ethylbenzene	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
Hexachloro-1,3-butadiene	ND		0.0355	1.05	12/18/2023 14:00	WG2191496
Isopropylbenzene	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
p-Isopropyltoluene	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
2-Butanone (MEK)	ND		0.142	1.05	12/18/2023 14:00	WG2191496
Methylene Chloride	ND		0.0355	1.05	12/18/2023 14:00	WG2191496
4-Methyl-2-pentanone (MIBK)	ND		0.0355	1.05	12/18/2023 14:00	WG2191496
Methyl tert-butyl ether	ND		0.00142	1.05	12/18/2023 14:00	WG2191496

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3	0.0177	1.05	12/18/2023 14:00	WG2191496
n-Propylbenzene	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
Styrene	ND		0.0177	1.05	12/18/2023 14:00	WG2191496
1,1,1,2-Tetrachloroethane	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
1,1,2,2-Tetrachloroethane	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
Tetrachloroethene	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
Toluene	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
1,2,3-Trichlorobenzene	ND	C3 J3	0.0177	1.05	12/18/2023 14:00	WG2191496
1,2,4-Trichlorobenzene	ND	C3 J3	0.0177	1.05	12/18/2023 14:00	WG2191496
1,1,1-Trichloroethane	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
1,1,2-Trichloroethane	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
Trichloroethene	ND		0.00142	1.05	12/18/2023 14:00	WG2191496
Trichlorofluoromethane	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
1,2,3-Trichloropropane	ND		0.0177	1.05	12/18/2023 14:00	WG2191496
1,2,4-Trimethylbenzene	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
1,3,5-Trimethylbenzene	ND		0.00709	1.05	12/18/2023 14:00	WG2191496
Vinyl chloride	ND		0.00355	1.05	12/18/2023 14:00	WG2191496
Xylenes, Total	0.0118		0.00923	1.05	12/18/2023 14:00	WG2191496
(S) Toluene-d8	*103*		*75.0-131*		*12/18/2023 14:00*	WG2191496
(S) 4-Bromofluorobenzene	*102*		*67.0-138*		*12/18/2023 14:00*	WG2191496
(S) 1,2-Dichloroethane-d4	*85.8*		*70.0-130*		*12/18/2023 14:00*	WG2191496

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.6		1	12/14/2023 13:39	WG2189426

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	9.03		2.28	5	12/29/2023 00:05	WG2190443

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	C3	0.0659	1.03	12/18/2023 14:19	WG2191496
Acrylonitrile	ND		0.0165	1.03	12/18/2023 14:19	WG2191496
Benzene	ND		0.00132	1.03	12/18/2023 14:19	WG2191496
Bromobenzene	ND		0.0165	1.03	12/18/2023 14:19	WG2191496
Bromodichloromethane	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
Bromoform	ND		0.0330	1.03	12/18/2023 14:19	WG2191496
Bromomethane	ND		0.0165	1.03	12/18/2023 14:19	WG2191496
n-Butylbenzene	ND	C3	0.0165	1.03	12/18/2023 14:19	WG2191496
sec-Butylbenzene	ND		0.0165	1.03	12/18/2023 14:19	WG2191496
tert-Butylbenzene	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
Carbon tetrachloride	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
Chlorobenzene	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
Chlorodibromomethane	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
Chloroethane	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
Chloroform	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
Chloromethane	ND		0.0165	1.03	12/18/2023 14:19	WG2191496
2-Chlorotoluene	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
4-Chlorotoluene	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
1,2-Dibromo-3-Chloropropane	ND		0.0330	1.03	12/18/2023 14:19	WG2191496
1,2-Dibromoethane	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
Dibromomethane	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
1,2-Dichlorobenzene	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
1,3-Dichlorobenzene	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
1,4-Dichlorobenzene	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
Dichlorodifluoromethane	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
1,1-Dichloroethane	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
1,2-Dichloroethane	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
1,1-Dichloroethene	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
cis-1,2-Dichloroethene	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
trans-1,2-Dichloroethene	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
1,2-Dichloropropane	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
1,1-Dichloropropene	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
1,3-Dichloropropane	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
cis-1,3-Dichloropropene	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
trans-1,3-Dichloropropene	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
2,2-Dichloropropane	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
Di-isopropyl ether	ND		0.00132	1.03	12/18/2023 14:19	WG2191496
Ethylbenzene	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
Hexachloro-1,3-butadiene	ND		0.0330	1.03	12/18/2023 14:19	WG2191496
Isopropylbenzene	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
p-Isopropyltoluene	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
2-Butanone (MEK)	ND		0.132	1.03	12/18/2023 14:19	WG2191496
Methylene Chloride	ND		0.0330	1.03	12/18/2023 14:19	WG2191496
4-Methyl-2-pentanone (MIBK)	ND		0.0330	1.03	12/18/2023 14:19	WG2191496
Methyl tert-butyl ether	ND		0.00132	1.03	12/18/2023 14:19	WG2191496

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3	0.0165	1.03	12/18/2023 14:19	WG2191496
n-Propylbenzene	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
Styrene	ND		0.0165	1.03	12/18/2023 14:19	WG2191496
1,1,1,2-Tetrachloroethane	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
1,1,2,2-Tetrachloroethane	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
Tetrachloroethene	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
Toluene	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
1,2,3-Trichlorobenzene	ND	C3 J3	0.0165	1.03	12/18/2023 14:19	WG2191496
1,2,4-Trichlorobenzene	ND	C3 J3	0.0165	1.03	12/18/2023 14:19	WG2191496
1,1,1-Trichloroethane	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
1,1,2-Trichloroethane	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
Trichloroethene	ND		0.00132	1.03	12/18/2023 14:19	WG2191496
Trichlorofluoromethane	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
1,2,3-Trichloropropane	ND		0.0165	1.03	12/18/2023 14:19	WG2191496
1,2,4-Trimethylbenzene	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
1,3,5-Trimethylbenzene	ND		0.00659	1.03	12/18/2023 14:19	WG2191496
Vinyl chloride	ND		0.00330	1.03	12/18/2023 14:19	WG2191496
Xylenes, Total	ND		0.00857	1.03	12/18/2023 14:19	WG2191496
(S) Toluene-d8	*101*		*75.0-131*		*12/18/2023 14:19*	WG2191496
(S) 4-Bromofluorobenzene	*99.3*		*67.0-138*		*12/18/2023 14:19*	WG2191496
(S) 1,2-Dichloroethane-d4	*84.5*		*70.0-130*		*12/18/2023 14:19*	WG2191496

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.1		1	12/14/2023 13:39	WG2189426

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	170		2.25	5	12/29/2023 00:08	WG2190443

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	C3	0.0679	1.1	12/18/2023 14:39	WG2191496
Acrylonitrile	ND		0.0170	1.1	12/18/2023 14:39	WG2191496
Benzene	ND		0.00136	1.1	12/18/2023 14:39	WG2191496
Bromobenzene	ND		0.0170	1.1	12/18/2023 14:39	WG2191496
Bromodichloromethane	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
Bromoform	ND		0.0339	1.1	12/18/2023 14:39	WG2191496
Bromomethane	ND		0.0170	1.1	12/18/2023 14:39	WG2191496
n-Butylbenzene	ND	C3	0.0170	1.1	12/18/2023 14:39	WG2191496
sec-Butylbenzene	ND		0.0170	1.1	12/18/2023 14:39	WG2191496
tert-Butylbenzene	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
Carbon tetrachloride	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
Chlorobenzene	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
Chlorodibromomethane	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
Chloroethane	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
Chloroform	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
Chloromethane	ND		0.0170	1.1	12/18/2023 14:39	WG2191496
2-Chlorotoluene	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
4-Chlorotoluene	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
1,2-Dibromo-3-Chloropropane	ND		0.0339	1.1	12/18/2023 14:39	WG2191496
1,2-Dibromoethane	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
Dibromomethane	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
1,2-Dichlorobenzene	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
1,3-Dichlorobenzene	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
1,4-Dichlorobenzene	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
Dichlorodifluoromethane	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
1,1-Dichloroethane	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
1,2-Dichloroethane	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
1,1-Dichloroethene	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
cis-1,2-Dichloroethene	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
trans-1,2-Dichloroethene	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
1,2-Dichloropropane	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
1,1-Dichloropropene	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
1,3-Dichloropropane	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
cis-1,3-Dichloropropene	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
trans-1,3-Dichloropropene	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
2,2-Dichloropropane	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
Di-isopropyl ether	ND		0.00136	1.1	12/18/2023 14:39	WG2191496
Ethylbenzene	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
Hexachloro-1,3-butadiene	ND		0.0339	1.1	12/18/2023 14:39	WG2191496
Isopropylbenzene	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
p-Isopropyltoluene	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
2-Butanone (MEK)	ND		0.136	1.1	12/18/2023 14:39	WG2191496
Methylene Chloride	ND		0.0339	1.1	12/18/2023 14:39	WG2191496
4-Methyl-2-pentanone (MIBK)	ND		0.0339	1.1	12/18/2023 14:39	WG2191496
Methyl tert-butyl ether	ND		0.00136	1.1	12/18/2023 14:39	WG2191496

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3	0.0170	1.1	12/18/2023 14:39	WG2191496
n-Propylbenzene	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
Styrene	ND		0.0170	1.1	12/18/2023 14:39	WG2191496
1,1,1,2-Tetrachloroethane	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
1,1,2,2-Tetrachloroethane	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
Tetrachloroethene	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
Toluene	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
1,2,3-Trichlorobenzene	ND	C3 J3	0.0170	1.1	12/18/2023 14:39	WG2191496
1,2,4-Trichlorobenzene	ND	C3 J3	0.0170	1.1	12/18/2023 14:39	WG2191496
1,1,1-Trichloroethane	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
1,1,2-Trichloroethane	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
Trichloroethene	ND		0.00136	1.1	12/18/2023 14:39	WG2191496
Trichlorofluoromethane	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
1,2,3-Trichloropropane	ND		0.0170	1.1	12/18/2023 14:39	WG2191496
1,2,4-Trimethylbenzene	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
1,3,5-Trimethylbenzene	ND		0.00679	1.1	12/18/2023 14:39	WG2191496
Vinyl chloride	ND		0.00339	1.1	12/18/2023 14:39	WG2191496
Xylenes, Total	ND		0.00883	1.1	12/18/2023 14:39	WG2191496
(S) Toluene-d8	*103*		*75.0-131*		*12/18/2023 14:39*	WG2191496
(S) 4-Bromofluorobenzene	*101*		*67.0-138*		*12/18/2023 14:39*	WG2191496
(S) 1,2-Dichloroethane-d4	*74.3*		*70.0-130*		*12/18/2023 14:39*	WG2191496

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	C3	50.0	1	12/17/2023 23:22	WG2191219
Acrolein	ND		50.0	1	12/17/2023 23:22	WG2191219
Acrylonitrile	ND		10.0	1	12/17/2023 23:22	WG2191219
Benzene	ND		1.00	1	12/17/2023 23:22	WG2191219
Bromobenzene	ND		1.00	1	12/17/2023 23:22	WG2191219
Bromodichloromethane	ND		1.00	1	12/17/2023 23:22	WG2191219
Bromoform	ND		1.00	1	12/17/2023 23:22	WG2191219
Bromomethane	ND	C3	5.00	1	12/17/2023 23:22	WG2191219
n-Butylbenzene	ND		1.00	1	12/17/2023 23:22	WG2191219
sec-Butylbenzene	ND		1.00	1	12/17/2023 23:22	WG2191219
tert-Butylbenzene	ND		1.00	1	12/17/2023 23:22	WG2191219
Carbon tetrachloride	ND		1.00	1	12/17/2023 23:22	WG2191219
Chlorobenzene	ND		1.00	1	12/17/2023 23:22	WG2191219
Chlorodibromomethane	ND		1.00	1	12/17/2023 23:22	WG2191219
Chloroethane	ND	C3	5.00	1	12/17/2023 23:22	WG2191219
Chloroform	ND		5.00	1	12/17/2023 23:22	WG2191219
Chloromethane	ND	J3	2.50	1	12/17/2023 23:22	WG2191219
2-Chlorotoluene	ND		1.00	1	12/17/2023 23:22	WG2191219
4-Chlorotoluene	ND		1.00	1	12/17/2023 23:22	WG2191219
1,2-Dibromo-3-Chloropropane	ND	C3	5.00	1	12/17/2023 23:22	WG2191219
1,2-Dibromoethane	ND		1.00	1	12/17/2023 23:22	WG2191219
Dibromomethane	ND		1.00	1	12/17/2023 23:22	WG2191219
1,2-Dichlorobenzene	ND		1.00	1	12/17/2023 23:22	WG2191219
1,3-Dichlorobenzene	ND		1.00	1	12/17/2023 23:22	WG2191219
1,4-Dichlorobenzene	ND		1.00	1	12/17/2023 23:22	WG2191219
Dichlorodifluoromethane	ND		5.00	1	12/17/2023 23:22	WG2191219
1,1-Dichloroethane	ND		1.00	1	12/17/2023 23:22	WG2191219
1,2-Dichloroethane	ND		1.00	1	12/17/2023 23:22	WG2191219
1,1-Dichloroethene	ND		1.00	1	12/17/2023 23:22	WG2191219
cis-1,2-Dichloroethene	ND		1.00	1	12/17/2023 23:22	WG2191219
trans-1,2-Dichloroethene	ND		1.00	1	12/17/2023 23:22	WG2191219
1,2-Dichloropropane	ND		1.00	1	12/17/2023 23:22	WG2191219
1,1-Dichloropropene	ND		1.00	1	12/17/2023 23:22	WG2191219
1,3-Dichloropropane	ND		1.00	1	12/17/2023 23:22	WG2191219
cis-1,3-Dichloropropene	ND		1.00	1	12/17/2023 23:22	WG2191219
trans-1,3-Dichloropropene	ND		1.00	1	12/17/2023 23:22	WG2191219
2,2-Dichloropropane	ND		1.00	1	12/17/2023 23:22	WG2191219
Di-isopropyl ether	ND		1.00	1	12/17/2023 23:22	WG2191219
Ethylbenzene	ND		1.00	1	12/17/2023 23:22	WG2191219
Hexachloro-1,3-butadiene	ND		1.00	1	12/17/2023 23:22	WG2191219
Isopropylbenzene	ND		1.00	1	12/17/2023 23:22	WG2191219
p-Isopropyltoluene	ND		1.00	1	12/17/2023 23:22	WG2191219
2-Butanone (MEK)	ND		10.0	1	12/17/2023 23:22	WG2191219
Methylene Chloride	ND		5.00	1	12/17/2023 23:22	WG2191219
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/17/2023 23:22	WG2191219
Methyl tert-butyl ether	ND		1.00	1	12/17/2023 23:22	WG2191219
Naphthalene	ND	C3	5.00	1	12/17/2023 23:22	WG2191219
n-Propylbenzene	ND		1.00	1	12/17/2023 23:22	WG2191219
Styrene	ND		1.00	1	12/17/2023 23:22	WG2191219
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/17/2023 23:22	WG2191219
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/17/2023 23:22	WG2191219
Tetrachloroethene	ND		1.00	1	12/17/2023 23:22	WG2191219
Toluene	ND		1.00	1	12/17/2023 23:22	WG2191219
1,2,3-Trichlorobenzene	ND		1.00	1	12/17/2023 23:22	WG2191219
1,2,4-Trichlorobenzene	ND		1.00	1	12/17/2023 23:22	WG2191219
1,1,1-Trichloroethane	ND		1.00	1	12/17/2023 23:22	WG2191219

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		1.00	1	12/17/2023 23:22	WG2191219
Trichloroethene	ND		1.00	1	12/17/2023 23:22	WG2191219
Trichlorofluoromethane	ND		5.00	1	12/17/2023 23:22	WG2191219
1,2,3-Trichloropropane	ND		2.50	1	12/17/2023 23:22	WG2191219
1,2,4-Trimethylbenzene	ND		1.00	1	12/17/2023 23:22	WG2191219
1,3,5-Trimethylbenzene	ND		1.00	1	12/17/2023 23:22	WG2191219
Vinyl chloride	ND	J3	1.00	1	12/17/2023 23:22	WG2191219
Xylenes, Total	ND		3.00	1	12/17/2023 23:22	WG2191219
(S) Toluene-d8	*113*		*80.0-120*		*12/17/2023 23:22*	WG2191219
(S) 4-Bromofluorobenzene	*115*		*77.0-126*		*12/17/2023 23:22*	WG2191219
(S) 1,2-Dichloroethane-d4	*125*		*70.0-130*		*12/17/2023 23:22*	WG2191219

Method Blank (MB)

(MB) R4012802-1 12/14/23 13:39

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00300			

L1687721-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1687721-01 12/14/23 13:39 • (DUP) R4012802-3 12/14/23 13:39

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	87.9	86.0	1	2.19		10

Laboratory Control Sample (LCS)

(LCS) R4012802-2 12/14/23 13:39

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	90.0-110	

Method Blank (MB)

(MB) R4013577-1 12/17/23 21:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.0990	2.00

Laboratory Control Sample (LCS)

(LCS) R4013577-2 12/17/23 22:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	91.4	91.4	80.0-120	

L1687684-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1687684-02 12/17/23 22:04 • (MS) R4013577-5 12/17/23 22:13 • (MSD) R4013577-6 12/17/23 22:17

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	123	53.8	136	151	66.6	78.9	5	75.0-125	J6		10.6	20

Method Blank (MB)

(MB) R4017358-1 12/27/23 00:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.0990	2.00

Laboratory Control Sample (LCS)

(LCS) R4017358-2 12/27/23 00:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	106	106	80.0-120	

L1687573-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1687573-03 12/27/23 00:10 • (MS) R4017358-5 12/27/23 00:20 • (MSD) R4017358-6 12/27/23 00:23

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	100	11.2	115	109	104	97.4	5	75.0-125			5.73	20

Method Blank (MB)

(MB) R4014014-3 12/17/23 21:46

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00

Method Blank (MB)

(MB) R4014014-3 12/17/23 21:46

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	*111*			*80.0-120*
(S) 4-Bromofluorobenzene	*115*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*126*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014014-1 12/17/23 20:43 • (LCSD) R4014014-2 12/17/23 21:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	19.4	24.7	77.6	98.8	19.0-160			24.0	27
Acrolein	25.0	22.6	22.5	90.4	90.0	10.0-160			0.443	26
Acrylonitrile	25.0	27.2	27.7	109	111	55.0-149			1.82	20
Benzene	5.00	4.68	5.28	93.6	106	70.0-123			12.0	20
Bromobenzene	5.00	4.36	4.80	87.2	96.0	73.0-121			9.61	20
Bromodichloromethane	5.00	4.97	5.31	99.4	106	75.0-120			6.61	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014014-1 12/17/23 20:43 • (LCSD) R4014014-2 12/17/23 21:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	5.00	4.02	4.16	80.4	83.2	68.0-132			3.42	20
Bromomethane	5.00	2.94	3.40	58.8	68.0	10.0-160			14.5	25
n-Butylbenzene	5.00	4.24	4.75	84.8	95.0	73.0-125			11.3	20
sec-Butylbenzene	5.00	4.31	4.67	86.2	93.4	75.0-125			8.02	20
tert-Butylbenzene	5.00	4.49	4.94	89.8	98.8	76.0-124			9.54	20
Carbon tetrachloride	5.00	4.97	5.61	99.4	112	68.0-126			12.1	20
Chlorobenzene	5.00	4.42	4.93	88.4	98.6	80.0-121			10.9	20
Chlorodibromomethane	5.00	4.47	4.77	89.4	95.4	77.0-125			6.49	20
Chloroethane	5.00	3.68	4.47	73.6	89.4	47.0-150			19.4	20
Chloroform	5.00	4.91	5.72	98.2	114	73.0-120			15.2	20
Chloromethane	5.00	4.08	5.27	81.6	105	41.0-142		J3	25.5	20
2-Chlorotoluene	5.00	4.45	4.86	89.0	97.2	76.0-123			8.81	20
4-Chlorotoluene	5.00	4.42	4.78	88.4	95.6	75.0-122			7.83	20
1,2-Dibromo-3-Chloropropane	5.00	3.54	3.72	70.8	74.4	58.0-134			4.96	20
1,2-Dibromoethane	5.00	4.44	4.72	88.8	94.4	80.0-122			6.11	20
Dibromomethane	5.00	4.80	5.02	96.0	100	80.0-120			4.48	20
1,2-Dichlorobenzene	5.00	4.50	4.86	90.0	97.2	79.0-121			7.69	20
1,3-Dichlorobenzene	5.00	4.41	4.83	88.2	96.6	79.0-120			9.09	20
1,4-Dichlorobenzene	5.00	4.47	4.97	89.4	99.4	79.0-120			10.6	20
Dichlorodifluoromethane	5.00	4.95	6.00	99.0	120	51.0-149			19.2	20
1,1-Dichloroethane	5.00	4.96	5.54	99.2	111	70.0-126			11.0	20
1,2-Dichloroethane	5.00	5.73	6.18	115	124	70.0-128			7.56	20
1,1-Dichloroethene	5.00	4.31	5.09	86.2	102	71.0-124			16.6	20
cis-1,2-Dichloroethene	5.00	4.93	5.31	98.6	106	73.0-120			7.42	20
trans-1,2-Dichloroethene	5.00	4.45	5.25	89.0	105	73.0-120			16.5	20
1,2-Dichloropropane	5.00	5.06	5.35	101	107	77.0-125			5.57	20
1,1-Dichloropropene	5.00	4.62	5.38	92.4	108	74.0-126			15.2	20
1,3-Dichloropropane	5.00	4.78	5.08	95.6	102	80.0-120			6.09	20
cis-1,3-Dichloropropene	5.00	4.70	5.00	94.0	100	80.0-123			6.19	20
trans-1,3-Dichloropropene	5.00	4.56	4.98	91.2	99.6	78.0-124			8.81	20
2,2-Dichloropropane	5.00	4.71	5.35	94.2	107	58.0-130			12.7	20
Di-isopropyl ether	5.00	5.66	6.04	113	121	58.0-138			6.50	20
Ethylbenzene	5.00	4.37	4.87	87.4	97.4	79.0-123			10.8	20
Hexachloro-1,3-butadiene	5.00	4.37	4.89	87.4	97.8	54.0-138			11.2	20
Isopropylbenzene	5.00	4.67	5.06	93.4	101	76.0-127			8.02	20
p-Isopropyltoluene	5.00	4.57	4.92	91.4	98.4	76.0-125			7.38	20
2-Butanone (MEK)	25.0	22.2	25.7	88.8	103	44.0-160			14.6	20
Methylene Chloride	5.00	4.78	5.23	95.6	105	67.0-120			8.99	20
4-Methyl-2-pentanone (MIBK)	25.0	27.0	28.0	108	112	68.0-142			3.64	20
Methyl tert-butyl ether	5.00	5.15	5.56	103	111	68.0-125			7.66	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014014-1 12/17/23 20:43 • (LCSD) R4014014-2 12/17/23 21:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	5.00	3.55	3.78	71.0	75.6	54.0-135			6.28	20
n-Propylbenzene	5.00	4.30	4.74	86.0	94.8	77.0-124			9.73	20
Styrene	5.00	4.36	4.84	87.2	96.8	73.0-130			10.4	20
1,1,1,2-Tetrachloroethane	5.00	4.44	4.86	88.8	97.2	75.0-125			9.03	20
1,1,2,2-Tetrachloroethane	5.00	4.05	4.48	81.0	89.6	65.0-130			10.1	20
Tetrachloroethene	5.00	4.70	5.25	94.0	105	72.0-132			11.1	20
Toluene	5.00	4.67	5.13	93.4	103	79.0-120			9.39	20
1,2,3-Trichlorobenzene	5.00	4.22	4.44	84.4	88.8	50.0-138			5.08	20
1,2,4-Trichlorobenzene	5.00	4.24	4.56	84.8	91.2	57.0-137			7.27	20
1,1,1-Trichloroethane	5.00	5.10	5.66	102	113	73.0-124			10.4	20
1,1,2-Trichloroethane	5.00	4.70	5.04	94.0	101	80.0-120			6.98	20
Trichloroethene	5.00	4.98	5.42	99.6	108	78.0-124			8.46	20
Trichlorofluoromethane	5.00	4.79	5.55	95.8	111	59.0-147			14.7	20
1,2,3-Trichloropropane	5.00	4.54	4.58	90.8	91.6	73.0-130			0.877	20
1,2,4-Trimethylbenzene	5.00	4.38	4.77	87.6	95.4	76.0-121			8.52	20
1,3,5-Trimethylbenzene	5.00	4.41	4.79	88.2	95.8	76.0-122			8.26	20
Vinyl chloride	5.00	4.04	4.95	80.8	99.0	67.0-131		J3	20.2	20
Xylenes, Total	15.0	13.5	14.9	90.0	99.3	79.0-123			9.86	20
(S) Toluene-d8				*107*	*108*	*80.0-120*				
(S) 4-Bromofluorobenzene				*111*	*110*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*125*	*126*	*70.0-130*				

Method Blank (MB)

(MB) R4014129-3 12/18/23 09:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	0.00153	J	0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

Method Blank (MB)

(MB) R4014129-3 12/18/23 09:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*100*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*81.4*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014129-1 12/18/23 07:53 • (LCSD) R4014129-2 12/18/23 08:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.348	0.386	55.7	61.8	10.0-160			10.4	31
Acrylonitrile	0.625	0.517	0.548	82.7	87.7	45.0-153			5.82	22
Benzene	0.125	0.121	0.121	96.8	96.8	70.0-123			0.000	20
Bromobenzene	0.125	0.135	0.132	108	106	73.0-121			2.25	20
Bromodichloromethane	0.125	0.124	0.124	99.2	99.2	73.0-121			0.000	20
Bromoform	0.125	0.127	0.131	102	105	64.0-132			3.10	20
Bromomethane	0.125	0.117	0.119	93.6	95.2	56.0-147			1.69	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014129-1 12/18/23 07:53 • (LCSD) R4014129-2 12/18/23 08:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
n-Butylbenzene	0.125	0.0964	0.114	77.1	91.2	68.0-135			16.7	20
sec-Butylbenzene	0.125	0.112	0.116	89.6	92.8	74.0-130			3.51	20
tert-Butylbenzene	0.125	0.121	0.122	96.8	97.6	75.0-127			0.823	20
Carbon tetrachloride	0.125	0.138	0.134	110	107	66.0-128			2.94	20
Chlorobenzene	0.125	0.133	0.136	106	109	76.0-128			2.23	20
Chlorodibromomethane	0.125	0.132	0.133	106	106	74.0-127			0.755	20
Chloroethane	0.125	0.116	0.122	92.8	97.6	61.0-134			5.04	20
Chloroform	0.125	0.119	0.120	95.2	96.0	72.0-123			0.837	20
Chloromethane	0.125	0.112	0.110	89.6	88.0	51.0-138			1.80	20
2-Chlorotoluene	0.125	0.120	0.118	96.0	94.4	75.0-124			1.68	20
4-Chlorotoluene	0.125	0.113	0.111	90.4	88.8	75.0-124			1.79	20
1,2-Dibromo-3-Chloropropane	0.125	0.117	0.117	93.6	93.6	59.0-130			0.000	20
1,2-Dibromoethane	0.125	0.131	0.134	105	107	74.0-128			2.26	20
Dibromomethane	0.125	0.132	0.129	106	103	75.0-122			2.30	20
1,2-Dichlorobenzene	0.125	0.115	0.120	92.0	96.0	76.0-124			4.26	20
1,3-Dichlorobenzene	0.125	0.119	0.125	95.2	100	76.0-125			4.92	20
1,4-Dichlorobenzene	0.125	0.117	0.122	93.6	97.6	77.0-121			4.18	20
Dichlorodifluoromethane	0.125	0.140	0.143	112	114	43.0-156			2.12	20
1,1-Dichloroethane	0.125	0.112	0.114	89.6	91.2	70.0-127			1.77	20
1,2-Dichloroethane	0.125	0.114	0.115	91.2	92.0	65.0-131			0.873	20
1,1-Dichloroethene	0.125	0.112	0.112	89.6	89.6	65.0-131			0.000	20
cis-1,2-Dichloroethene	0.125	0.125	0.133	100	106	73.0-125			6.20	20
trans-1,2-Dichloroethene	0.125	0.131	0.133	105	106	71.0-125			1.52	20
1,2-Dichloropropane	0.125	0.123	0.119	98.4	95.2	74.0-125			3.31	20
1,1-Dichloropropene	0.125	0.123	0.126	98.4	101	73.0-125			2.41	20
1,3-Dichloropropane	0.125	0.126	0.125	101	100	80.0-125			0.797	20
cis-1,3-Dichloropropene	0.125	0.124	0.122	99.2	97.6	76.0-127			1.63	20
trans-1,3-Dichloropropene	0.125	0.117	0.116	93.6	92.8	73.0-127			0.858	20
2,2-Dichloropropane	0.125	0.102	0.105	81.6	84.0	59.0-135			2.90	20
Di-isopropyl ether	0.125	0.101	0.101	80.8	80.8	60.0-136			0.000	20
Ethylbenzene	0.125	0.130	0.137	104	110	74.0-126			5.24	20
Hexachloro-1,3-butadiene	0.125	0.123	0.139	98.4	111	57.0-150			12.2	20
Isopropylbenzene	0.125	0.127	0.135	102	108	72.0-127			6.11	20
p-Isopropyltoluene	0.125	0.112	0.118	89.6	94.4	72.0-133			5.22	20
2-Butanone (MEK)	0.625	0.632	0.703	101	112	30.0-160			10.6	24
Methylene Chloride	0.125	0.127	0.119	102	95.2	68.0-123			6.50	20
4-Methyl-2-pentanone (MIBK)	0.625	0.548	0.557	87.7	89.1	56.0-143			1.63	20
Methyl tert-butyl ether	0.125	0.111	0.111	88.8	88.8	66.0-132			0.000	20
Naphthalene	0.125	0.0805	0.0951	64.4	76.1	59.0-130			16.6	20
n-Propylbenzene	0.125	0.113	0.116	90.4	92.8	74.0-126			2.62	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014129-1 12/18/23 07:53 • (LCSD) R4014129-2 12/18/23 08:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Styrene	0.125	0.117	0.127	93.6	102	72.0-127			8.20	20
1,1,1,2-Tetrachloroethane	0.125	0.135	0.135	108	108	74.0-129			0.000	20
1,1,2,2-Tetrachloroethane	0.125	0.106	0.101	84.8	80.8	68.0-128			4.83	20
Tetrachloroethene	0.125	0.154	0.165	123	132	70.0-136			6.90	20
Toluene	0.125	0.135	0.138	108	110	75.0-121			2.20	20
1,2,3-Trichlorobenzene	0.125	0.0753	0.0977	60.2	78.2	59.0-139		J3	25.9	20
1,2,4-Trichlorobenzene	0.125	0.0830	0.106	66.4	84.8	62.0-137		J3	24.3	20
1,1,1-Trichloroethane	0.125	0.132	0.127	106	102	69.0-126			3.86	20
1,1,2-Trichloroethane	0.125	0.141	0.141	113	113	78.0-123			0.000	20
Trichloroethene	0.125	0.154	0.156	123	125	76.0-126			1.29	20
Trichlorofluoromethane	0.125	0.126	0.140	101	112	61.0-142			10.5	20
1,2,3-Trichloropropane	0.125	0.128	0.119	102	95.2	67.0-129			7.29	20
1,2,4-Trimethylbenzene	0.125	0.108	0.112	86.4	89.6	70.0-126			3.64	20
1,3,5-Trimethylbenzene	0.125	0.112	0.112	89.6	89.6	73.0-127			0.000	20
Vinyl chloride	0.125	0.119	0.121	95.2	96.8	63.0-134			1.67	20
Xylenes, Total	0.375	0.339	0.404	90.4	108	72.0-127			17.5	20
(S) Toluene-d8				*103*	*103*	*75.0-131*				
(S) 4-Bromofluorobenzene				*96.7*	*99.8*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*90.0*	*87.9*	*70.0-130*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
S&ME Inc. - Raleigh NC

3201 Spring Forest Road
Raleigh, NC 27616

Billing Information:
Accounts Payable
3201 Spring Forest Rd.

(smeinc_invoice@concursolution

Report to:
Mr. Jerry Paul

Email To: **jpaul@smeinc.com**

Project Description:
East End Park

City/State Collected: Durham, NC

Please Circle: PT MT CT (ET)

Phone: **919-872-2660**

Client Project #

Lab Project #
SMERLNC-EASTEND

Collected by (print):
Chelsea Parra

Site/Facility ID #

P.O. #

Collected by (signature):
CP

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 168772
F127

Acctnum: **SMERLNC**
Template: **T243172**
Prelogin: **P1042525**
PM: **034 - Craig Cothron**
PB:

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PBG 2ozClr-NoPres	SPLP/TCLP HOLD 4ozClr-NoPres	TS 4ozClr-NoPres	V8260 40mlAmb-HCl-Blk	V8260 40mlAmb/MeOH10ml/Syr	Remarks	Sample # (lab only)
823-SB-09	C	SS	(0-1)	12112123	1400	4	X	X	X		X		-01
823-SB-10		SS			1625	4	X	X	X		X		-02
823-SB-11		SS			1500	4	X	X	X		X		-03
823-SB-12		SS			1435	4	X	X	X		X		-04
823-SB-13		SS			1405	4	X	X	X		X		-05
823-SB-14		SS			1640	4	X	X	X		X		-06
~~TRIP BLANK~~ 823-SB-15		~~GW~~ SS			1505	4	X	X	X	X (1)	X		-07
823-SB-16		SS			1440	4	X	X	X		X		-08
Trip Blank		GW				2				X			-09

Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 7155 0298 3043

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR
CP	12112123	1730		2
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.8°C Bottles Received: 32
				0.1+0=0.1
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/13/23 Time: 900
			(14)	

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

ANALYTICAL REPORT

January 11, 2024

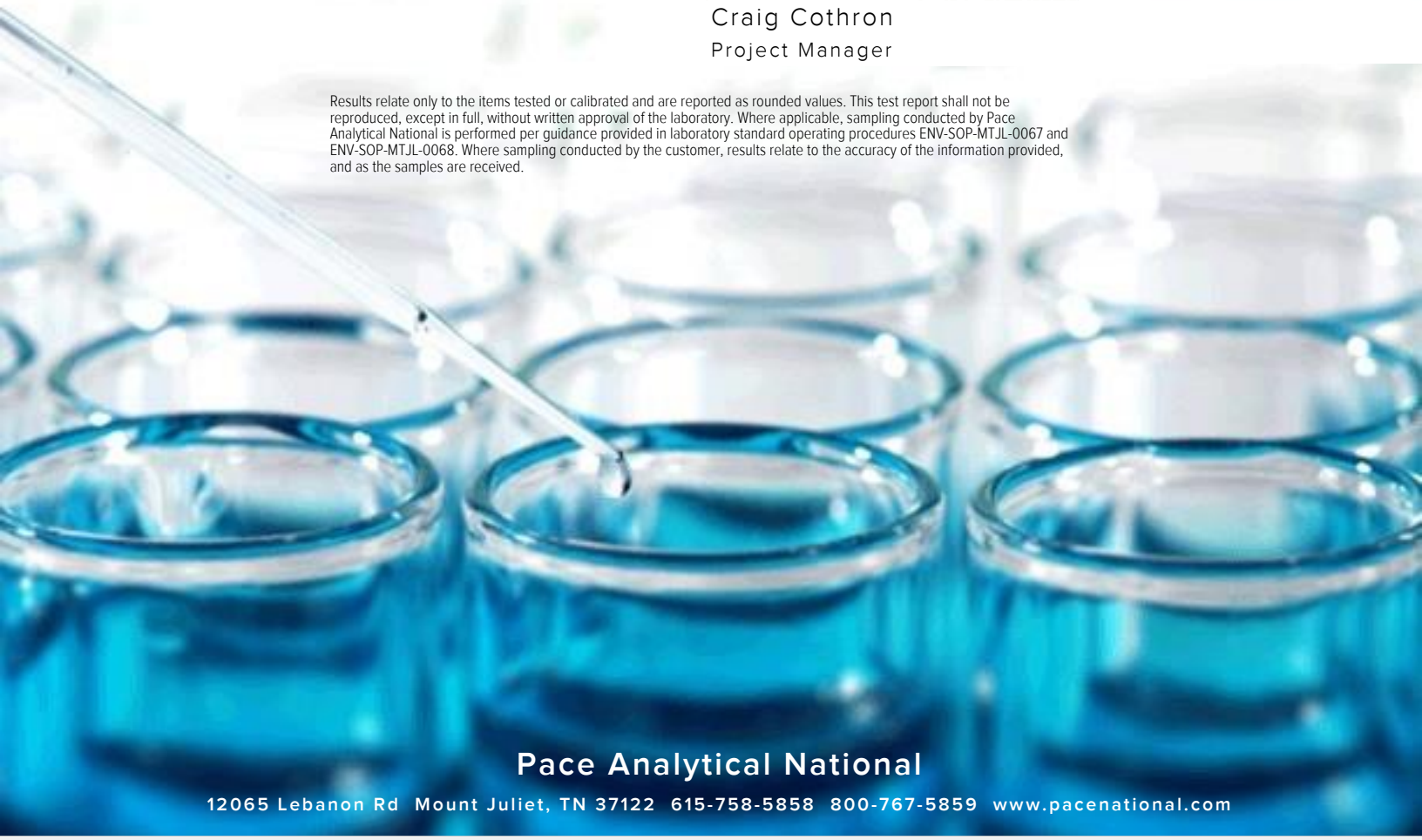
S&ME Inc. - Raleigh NC

Sample Delivery Group:	L1692916
Samples Received:	12/13/2023
Project Number:	
Description:	East End Park

Report To: Mr. Jerry Paul
3201 Spring Forest Road
Raleigh, NC 27616

Entire Report Reviewed By:

Craig Cothron
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

8223-SB-04 L1692916-01 5

8223-SB-04 L1692916-02 6

8223-SB-05 L1692916-03 7

8223-SB-05 L1692916-04 8

Qc: Quality Control Summary 9

Metals (ICPMS) by Method 6020 9

Gl: Glossary of Terms 11

Al: Accreditations & Locations 12

Sc: Sample Chain of Custody 13

SAMPLE SUMMARY

8223-SB-04 L1692916-01 Waste

Collected by: Chelsea Parra
Collected date/time: 12/12/23 11:30
Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2201367	1	01/05/24 10:43	01/05/24 10:43	WC	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2202512	1	01/07/24 12:51	01/10/24 11:21	SJM	Mt. Juliet, TN

8223-SB-04 L1692916-02 Leachate

Collected by: Chelsea Parra
Collected date/time: 12/12/23 11:30
Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1312	WG2201364	1	01/05/24 13:53	01/05/24 13:53	BTP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2202645	1	01/07/24 13:48	01/10/24 15:21	SJM	Mt. Juliet, TN

8223-SB-05 L1692916-03 Waste

Collected by: Chelsea Parra
Collected date/time: 12/12/23 11:45
Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2201367	1	01/05/24 10:43	01/05/24 10:43	WC	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2202512	1	01/07/24 12:51	01/10/24 11:24	SJM	Mt. Juliet, TN

8223-SB-05 L1692916-04 Leachate

Collected by: Chelsea Parra
Collected date/time: 12/12/23 11:45
Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1312	WG2201364	1	01/05/24 13:53	01/05/24 13:53	BTP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2202645	1	01/07/24 13:48	01/10/24 15:08	SJM	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Craig Cothron
Project Manager

Preparation by Method 1311/1312

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		1/5/2024 10:43:23 AM	WG2201367
Initial pH	6.54		1/5/2024 10:43:23 AM	WG2201367
Final pH	4.98		1/5/2024 10:43:23 AM	WG2201367

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Lead	0.182		0.0200		1	01/10/2024 11:21	WG2202512

Preparation by Method 1311/1312

Analyte	Result	Qualifier	Prep date / time	Batch
SPLP Extraction	-		1/5/2024 1:53:02 PM	WG2201364
Final pH	7.66		1/5/2024 1:53:02 PM	WG2201364

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
	ug/l		ug/l			
Lead	215		2.00	1	01/10/2024 15:21	WG2202645

Preparation by Method 1311/1312

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		1/5/2024 10:43:23 AM	WG2201367
Initial pH	6.23		1/5/2024 10:43:23 AM	WG2201367
Final pH	4.92		1/5/2024 10:43:23 AM	WG2201367

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Lead	0.0761		0.0200		1	01/10/2024 11:24	WG2202512

Preparation by Method 1311/1312

Analyte	Result	Qualifier	Prep date / time	Batch
SPLP Extraction	-		1/5/2024 1:53:02 PM	WG2201364
Final pH	8.00		1/5/2024 1:53:02 PM	WG2201364

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
	ug/l		ug/l			
Lead	151		2.00	1	01/10/2024 15:08	WG2202645

Method Blank (MB)

(MB) R4021672-1 01/10/24 11:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	0.00251	J	0.00240	0.0200

Laboratory Control Sample (LCS)

(LCS) R4021672-2 01/10/24 11:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	0.500	0.473	94.6	80.0-120	

L1692999-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1692999-01 01/10/24 11:08 • (MS) R4021672-4 01/10/24 11:14 • (MSD) R4021672-5 01/10/24 11:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	0.500	0.828	1.35	1.40	105	115	1	75.0-125			3.72	20

Method Blank (MB)

(MB) R4021793-1 01/10/24 15:01

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Lead	U		0.849	2.00

Laboratory Control Sample (LCS)

(LCS) R4021793-2 01/10/24 15:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	50.0	50.1	100	80.0-120	

L1692916-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1692916-04 01/10/24 15:08 • (MS) R4021793-4 01/10/24 15:15 • (MSD) R4021793-5 01/10/24 15:18

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	50.0	151	200	204	98.2	106	1	75.0-125			2.01	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

S&ME Inc. - Raleigh NC

3201 Spring Forest Road
Raleigh, NC 27616

Billing Information:
Accounts Payable
3201 Spring Forest Rd.
(smeinc_invoice@concursolution
.com)

Report to: Mr. Jerry Paul
Email To: jpaul@smeinc.com

Project Description: East End Park
City/State Collected: Durham, NC
Please Circle: PT MT CT (ET)

Phone: 919-872-2660
Client Project #
Lab Project # SMERLNC-EASTEND

Collected by (print): Chelsea Parra
Site/Facility ID #
P.O. #

Collected by (signature): CP
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day
Quote #
Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PBG 2ozClr-NoPres	SPLP/TCLP HOLD 4ozClr-NoPres	TS 4ozClr-NoPres	V8260 40mlAmb-HCl-Blk	V8260 40mlAmb/MeOH10ml/Syr					Remarks	Sample # (lab only)
823-SB-01	C	SS	(0-1)	12/12/23	1100	4	X	X	X		X						-01
823-SB-02		SS			1110	4	X	X	X		X						-02
823-SB-03		SS			1120	4	X	X	X		X						-03
823-SB-04		SS			1130	4	X	X	X		X					-01/-02	-04
823-SB-05		SS			1145	4	X	X	X		X					-03/-04	-05
823-SB-06		SS			1310	4	X	X	X		X						-06
823-SB-07		SS			1210	4	X	X	X		X						-07
823-SB-08		SS			1335	4	X	X	X		X						-08
DUP-SB		SS			—	4	X	X	X		X						-09
Trip Blank		~~SS~~ GW				~~4~~ 2	~~X~~ CP	~~X~~	~~X~~	X	~~X~~						-10

TD 1/4

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: ~~SPLP~~ SPLP/TCLP on hold
pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____
Tracking # 7155 0298 3054

Relinquished by : (Signature) CP
Date: 12/12/23 Time: 1730
Received by: (Signature)

Relinquished by : (Signature)
Date: Time:
Received by: (Signature)

Relinquished by : (Signature)
Date: Time:
Received for lab by: (Signature) TJENK
Date: 12/13/23 Time: 0900

Trip Blank Received: (Yes) / No
HCl / (MeOH) TBR SDA
Temp: 1.5+0=1.5 °C Bottles Received: 36

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N
12/14/23 TP

If preservation required by Login: Date/Time
Hold:
Condition: NCF / (OK)

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE
L1692916
MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1687684
C180 TD 1/4
Acctnum: SMERLNC
Template: T243172
Prelogin: P1042525
PM: 034 - Craig Cothron
PB:
Shipped Via: FedEx Ground

L1692916

SMERLNC L1687684 Relog

R5

Please re-log samples SB-4 (L1687684-04) and SB-5 (L1687684-05) for TCLP and SPLP Lead by 6020.

Time estimate: oh **Time spent:** oh

Members

CC Craig Cothron SG Shane Gambill

Appendix IV – NCDEQ Risk Calculator Outputs

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	February 2024
Basis:	November 2023 EPA RSL Table
Site Name:	East End Park
Site Address:	East Main Sreet & Gary Street, Durham NC
DEQ Section:	NONCD0000821
Site ID:	S&ME Project No. 23050630
Exposure Unit ID:	823 DP-2 Only VOC detections were input into the Risk Calculator
Submittal Date:	2/28/2024
Prepared By:	Chelsea Parra
Reviewed By:	Gerald Paul

Complete Exposure Pathways	Input Form 1A
Version Date: February 2024	
Basis: November 2023 EPA RSL Table	
Site ID: S&ME Project No. 23050630	
Exposure Unit ID: 823 DP-2 Only VOC detections were input into the Risk Calculato	

Note: Risk output will only be calculated for complete exposure pathways.

Receptor	Pathway	Check box if pathway complete
DIRECT CONTACT SOIL AND WATER PATHWAYS		
Resident	Soil	☑
	Groundwater Use	☐
Non-Residential Worker	Soil	☑
	Groundwater Use	☐
Construction Worker	Soil	☑
Recreator/Trespasser	Soil	☑
	Surface Water	☐
VAPOR INTRUSION PATHWAYS		
Resident	Groundwater to Indoor Air	☐
	Soil Gas to Indoor Air	☐
	Indoor Air	☐
Non-Residential Worker	Groundwater to Indoor Air	☐
	Soil Gas to Indoor Air	☐
	Indoor Air	☐
CONTAMINANT MIGRATION PATHWAYS		
Groundwater	Source Soil	☐
	Source Groundwater	☐
Surface Water	Source Soil	☐
	Source Groundwater	☐

Risk for Individual Pathways **Output Form 1A**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: S&ME Project No. 23050630

Exposure Unit ID: 823 DP-2 Only VOC detections were input into the Risk Calculator

DIRECT CONTACT SOIL AND WATER CALCULATORS				
Receptor	**Pathway**	**Carcinogenic Risk**	**Hazard Index**	**Risk exceeded?**
Resident	Soil	3.4E-08	6.6E-04	NO
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	8.1E-09	1.4E-04	NO
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	1.3E-09	5.5E-04	NO
Recreator/Trespasser	Soil	9.4E-09	7.9E-05	NO
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS				
Receptor	**Pathway**	**Carcinogenic Risk**	**Hazard Index**	**Risk exceeded?**
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS			
Pathway	**Source**	**Target Receptor Concentrations Exceeded?**	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, user did not check this pathway as complete.
4. NC = Pathway not calculated, required contaminant migration parameters were not entered.

Exposure Point Concentrations **Input Form 2A**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: S&ME Project No. 23050630

Exposure Unit ID: 823 DP-2 Only VOC detections were input into the Risk Calculator

Soil Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Only VOC detections were input into the Risk Calculator

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (mg/kg)	Notes:	CAS Number	Chemical **For the chemicals highlighted in blue, data entry notes are provided in the PSRG Table link on the Main Menu**	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
0.00458		71-43-2	Benzene			mg/kg	823-SB-03									
261		7439-92-1	~Lead and Compounds			mg/kg	823-SB-04									
0.00244		1634-04-4	Methyl tert-Butyl Ether (MTBE)			mg/kg	823-SB-04									
0.0636		91-20-3	~Naphthalene			mg/kg	823-SB-02									
0.0225		108-88-3	Toluene			mg/kg	823-SB-02									
0.0156		95-63-6	Trimethylbenzene, 1,2,4-			mg/kg	823-SB-02									
0.0558		1330-20-7	Xylenes			mg/kg	823-SB-07									

Sitewide Risk **Output Form 1B**

Version Date: February 2024 NOTE: If any changes were made, select "Update Sitewide Risk Values" to obtain updated values.

Basis: November 2023 EPA RSL Table

Site ID: S&ME Project No. 23050630

Exposure Unit ID: 823 DP-2 Only VOC detections were input into the Risk Calculator

		Resident - Current Scenario			Resident - Future Scenario			Non-Residential Worker - Current Scenario			Non-Residential Worker - Future Scenario			Construction Worker			Recreator/Trespasser		
Receptor	**Pathway**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**
DIRECT CONTACT SOIL AND WATER CALCULATORS																			
Resident	Soil	☑	3.4E-08	6.6E-04	☑	3.4E-08	6.6E-04												
	Groundwater Use*	☐	NM	NM	☐	NM	NM												
Non-Residential Worker	Soil							☑	8.1E-09	1.4E-04	☑	8.1E-09	1.4E-04						
	Groundwater Use*							☐	NM	NM	☐	NM	NM						
Construction Worker	Soil													☑	1.3E-09	5.5E-04			
Recreator/Trespasser	Soil																☑	9.4E-09	7.9E-05
	Surface Water Use*																☐	NM	NM
VAPOR INTRUSION CALCULATORS																			
Resident	Groundwater to Indoor Air	☐	NM	NM	☐	NM	NM												
	Soil Gas to Indoor Air	☐	NM	NM	☐	NM	NM												
	Indoor Air	☐	NM	NM	☐	NM	NM												
Non-Residential Worker	Groundwater to Indoor Air							☐	NM	NM	☐	NM	NM						
	Soil Gas to Indoor Air							☐	NM	NM	☐	NM	NM						
	Indoor Air							☐	NM	NM	☐	NM	NM						
TOTAL SITEWIDE RISK FOR EACH RECEPTOR			3.4E-08	6.6E-04		3.4E-08	6.6E-04		8.1E-09	1.4E-04		8.1E-09	1.4E-04		1.3E-09	5.5E-04		9.4E-09	7.9E-05

Notes:
1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.
2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not Modeled
4. NC = Pathway not calculated

DEQ Risk Calculator - Direct Contact - Resident Soil **Output Form 2A**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: S&ME Project No. 23050630

Exposure Unit ID: 823 DP-2 Only VOC detections were input into the Risk Calculator

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 200 mg/kg for residential soil. If it has been demonstrated that additional sources of lead are present (e.g., lead water service lines or lead-based paint), the EPA screening level is 100 mg/kg, which is used below for comparison to be conservative.*

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk*	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient*	Calculated Non-Carcinogenic Hazard Quotient
71-43-2	Benzene	0.00458	0.00458	0.00458	3.6E-10		3.4E-09	3.7E-09	1.5E-05		3.9E-05	5.4E-05
7439-92-1	~Lead and Compounds	261	261	261					**>SL****	**>SL****	**>SL****	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	0.00244	0.00244	0.00244	6.3E-12		4.3E-11	5.0E-11			1.5E-07	1.5E-07
91-20-3	~Naphthalene	0.0636	0.0636	0.0636	1.1E-08	4.0E-09	1.6E-08	3.1E-08	4.1E-05	1.3E-05	4.1E-04	4.7E-04
108-88-3	Toluene	0.0225	0.0225	0.0225					3.6E-06		9.5E-07	4.5E-06
95-63-6	Trimethylbenzene, 1,2,4-	0.0156	0.0156	0.0156					2.0E-05		3.0E-05	5.0E-05
1330-20-7	Xylenes	0.0558	0.0558	0.0558					3.6E-06		8.8E-05	9.1E-05
						Cumulative:		3.4E-08				6.6E-04

DEQ Risk Calculator - Direct Contact - Non-Residential Worker Soil **Output Form 2C**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: S&ME Project No. 23050630

Exposure Unit ID: 823 DP-2 Only VOC detections were input into the Risk Calculator

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 800 mg/kg for commercial/industrial soil.*

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
71-43-2	Benzene	0.00458	0.00458	0.00458	7.7E-11		7.7E-10	8.5E-10	9.8E-07		9.3E-06	1.0E-05
7439-92-1	~Lead and Compounds	261	261	261					**<SL****	**<SL****	**<SL****	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	0.00244	0.00244	0.00244	1.3E-12		9.9E-12	1.1E-11			3.6E-08	3.6E-08
91-20-3	~Naphthalene	0.0636	0.0636	0.0636	2.3E-09	1.3E-09	3.6E-09	7.2E-09	2.7E-06	1.5E-06	9.8E-05	1.0E-04
108-88-3	Toluene	0.0225	0.0225	0.0225					2.4E-07		2.3E-07	4.7E-07
95-63-6	Trimethylbenzene, 1,2,4-	0.0156	0.0156	0.0156					1.3E-06		7.0E-06	8.4E-06
1330-20-7	Xylenes	0.0558	0.0558	0.0558					2.4E-07		2.1E-05	2.1E-05
						Cumulative:		8.1E-09				1.4E-04

DEQ Risk Calculator - Direct Contact - Construction Worker Soil **Output Form 2E**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: S&ME Project No. 23050630

Exposure Unit ID: 823 DP-2 Only VOC detections were input into the Risk Calculator

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 800 mg/kg for commercial/industrial soil.*

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
71-43-2	Benzene	0.00458	0.00458	0.00458	1.0E-11		1.5E-10	1.6E-10	1.3E-06		1.7E-05	1.9E-05
7439-92-1	~Lead and Compounds	261	261	261					**<SL****	**<SL****	**<SL****	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	0.00244	0.00244	0.00244	1.8E-13		1.9E-12	2.1E-12			1.8E-07	1.8E-07
91-20-3	~Naphthalene	0.0636	0.0636	0.0636	3.1E-10	1.3E-10	6.8E-10	1.1E-09	3.1E-07	1.3E-07	4.9E-04	4.9E-04
108-88-3	Toluene	0.0225	0.0225	0.0225					8.3E-08		1.1E-06	1.2E-06
95-63-6	Trimethylbenzene, 1,2,4-	0.0156	0.0156	0.0156					1.1E-06		1.0E-05	1.2E-05
1330-20-7	Xylenes	0.0558	0.0558	0.0558					4.1E-07		2.6E-05	2.6E-05
						Cumulative:		1.3E-09				5.5E-04

DEQ Risk Calculator - Direct Contact - Recreator/Trespasser Soil **Output Form 2F**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: S&ME Project No. 23050630

Exposure Unit ID: 823 DP-2 Only VOC detections were input into the Risk Calculator

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 200 mg/kg for residential soil. If it has been demonstrated that additional sources of lead are present (e.g., lead water service lines or lead-based paint), the EPA screening level is 100 mg/kg, which is used below for comparison to be conservative.*

Receptor Type:

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
71-43-2	Benzene	0.00458	0.00458	0.00458	2.0E-10		1.6E-10	3.6E-10	8.2E-06		1.8E-06	1.0E-05
7439-92-1	~Lead and Compounds	261	261	261					**>SL****	**>SL****	**>SL****	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	0.00244	0.00244	0.00244	3.5E-12		2.0E-12	5.5E-12			6.9E-09	6.9E-09
91-20-3	~Naphthalene	0.0636	0.0636	0.0636	6.1E-09	2.2E-09	7.2E-10	9.1E-09	2.3E-05	7.0E-06	1.9E-05	4.9E-05
108-88-3	Toluene	0.0225	0.0225	0.0225					2.0E-06		4.4E-08	2.0E-06
95-63-6	Trimethylbenzene, 1,2,4-	0.0156	0.0156	0.0156					1.1E-05		1.4E-06	1.2E-05
1330-20-7	Xylenes	0.0558	0.0558	0.0558					2.0E-06		4.1E-06	6.1E-06
						Cumulative:		9.4E-09				7.9E-05