➤ Interim Site Characterization Report / 34328 SPLP Twin Oaks-Newark 14-inch Diameter Pipeline Release September 2, 2025

Appendix O

Laboratory Analytical Soil Samples



ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Stephanie R Grillo Groundwater & Environmental Services Inc 410 Eagleview Blvd., Suite 110 Exton, Pennsylvania 19341-2577

Generated 2/19/2025 5:05:27 PM

JOB DESCRIPTION

SPLP - Washington Crossing

JOB NUMBER

410-206485-1

Eurofins Lancaster Laboratories Environment Testing, LLC 2425 New Holland Pike Lancaster PA 17601

EOL

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 2/19/2025 5:05:27 PM

Authorized for release by Amek Carter, Project Manager Loran.Carter@et.eurofinsus.com (717)556-7252

12

14

Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
- · Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Page 3 of 34

Amel Carts

2/19/2025

Table of Contents

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Detection Summary	7
Client Sample Results	9
Surrogate Summary	18
QC Sample Results	19
QC Association Summary	25
Lab Chronicle	27
Certification Summary	30
Method Summary	31
Sample Summary	32
Chain of Custody	33
Receipt Checklists	34

3

4

6

8

10

12

IS

Л

Definitions/Glossary

Client: Groundwater & Environmental Services Inc

Qualifier Description

Project/Site: SPLP - Washington Crossing

Job ID: 410-206485-1

Qualifiers

GC/MS VOA

Qualifier

^c	CCV Recovery is outside acceptance limits.
cn	Refer to Case Narrative for further detail

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

S1+ Surrogate recovery exceeds control limits, high biased.

General Chemistry

Qualifier	Qualifier Description
!	Laboratory is not accredited for this parameter.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
\$	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present
PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Page 5 of 34 2/19/2025

4

3

4

7

0

10

12

13

14

Case Narrative

Client: Groundwater & Environmental Services Inc

Project: SPLP - Washington Crossing

Job ID: 410-206485-1 Eurofins Lancaster Laboratories Environment

Job Narrative 410-206485-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/4/2025 6:38 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

GC/MS VOA

Method 8260D: The following sample needs to be re-prepped due to the submitted vials were not usable: PE-7 (410-206485-7)

Method 8260D: The following samples were diluted due to the nature of the sample matrix: PE-1 (410-206485-1), PE-4 (410-206485-4) and PE-7 (410-206485-7). Elevated reporting limits (RLs) are provided.

Method 8260D: Surrogate recovery for the following samples were outside control limits: PE-1 (410-206485-1) and PE-7 (410-206485-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: Surrogate recovery for 4-Bromofluorobenzene (Surr) was outside acceptance criteria for the continuing calibration verification (CCV) on analytical batch 410-605912.

Method 8260D: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: PE-3 (410-206485-3), PE-5 (410-206485-5), PE-6 (410-206485-6) and PE-8 (410-206485-8). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Lancaster Laboratories Environment Testing, LLC

Page 6 of 34 2/19/2025

-6

Job ID: 410-206485-1

5

7

8

4.6

11

14

Client: Groundwater & Environmental Services Inc.

Job ID: 410-206485-1

Lab Sample ID: 410-206485-1

Lab Sample ID: 410-206485-3

Lab Sample ID: 410-206485-4

Lab Sample ID: 410-206485-5

Lab Sample ID: 410-206485-6

Lab Sample ID: 410-206485-7

2/19/2025

Olicit.	Orour	idwatci	G L	_11711	OHIIII	Ciliai	OCI VICCS	
Project	t/Site:	SPLP -	Wa	shin	gton	Cros	sing	

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	19000	cn	6400	510	ug/Kg	1000	₽	8260D	Total/NA
1,3,5-Trimethylbenzene	110000	cn	6400	640	ug/Kg	1000	₽	8260D	Total/NA
Toluene	15000	cn	6400	760	ug/Kg	1000	₽	8260D	Total/NA
Xylenes, Total	160000	cn	6400	1800	ug/Kg	1000	₩	8260D	Total/NA
Naphthalene	87000	cn	6400	2500	ug/Kg	1000	₽	8260D	Total/NA
1,2,4-Trimethylbenzene	290000	cn	6400	760	ug/Kg	1000	₽	8260D	Total/NA
sopropylbenzene	16000	cn	6400	760	ug/Kg	1000	₩	8260D	Total/NA
Lead	25		0.22	0.085	mg/Kg	2	₩	6020B	Total/NA

Client Sample ID: PE-2

Client Sample ID: PE-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	12		6.1	1.8	ug/Kg	1	₩	8260D	Total/NA
Xylenes, Total	7.6	J	12	0.86	ug/Kg	1	₽	8260D	Total/NA
1,2,4-Trimethylbenzene	21		6.1	1.2	ug/Kg	1	₽	8260D	Total/NA
Lead	36		0.23	0.087	mg/Kg	2	₩	6020B	Total/NA

Client Sample ID: PE-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	40		0.20	0.078	mg/Kg	2	₩	6020B	Total/NA

Client Sample ID: PE-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	600	J cn	2900	290	ug/Kg	500	₽	8260D	Total/NA
1,2,4-Trimethylbenzene	1100	J cn	2900	340	ug/Kg	500	₩	8260D	Total/NA
Lead	22		0.20	0.075	mg/Kg	2	₽	6020B	Total/NA

Client Sample ID: PE-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	45	J cn	310	31	ug/Kg	50	₽	8260D	Total/NA
Lead	15		0.17	0.064	mg/Kg	2	₽	6020B	Total/NA

Client Sample ID: PE-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	24		0.21	0.081	mg/Kg	2	₽	6020B	Total/NA

Client Sample ID: PE-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	5400	cn	3200	260	ug/Kg	500	₩	8260D	Total/NA
1,3,5-Trimethylbenzene	53000	cn	3200	320	ug/Kg	500	₽	8260D	Total/NA
Toluene	1900	J cn	3200	390	ug/Kg	500	₽	8260D	Total/NA
Xylenes, Total	51000	cn	3200	900	ug/Kg	500	₩	8260D	Total/NA
Naphthalene	5400	cn	3200	1300	ug/Kg	500	₩	8260D	Total/NA
1,2,4-Trimethylbenzene	120000	cn	3200	390	ug/Kg	500	₽	8260D	Total/NA
Isopropylbenzene	5500	cn	3200	390	ug/Kg	500	₩	8260D	Total/NA
Lead	28		0.22	0.083	mg/Kg	2	₽	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Groundwater & Environmental Services Inc

Job ID: 410-206485-1

Project/Site: SPLP - Washington Crossing

Client Sample ID: PE-8 Lab Sample ID: 410-206485-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	20		0.21	0.081	mg/Kg		₽	6020B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-206485-9

No Detections.

5

8

10

111

13

14

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Lab Sample ID: 410-206485-1

Matrix: Solid

Percent Solids: 83.1

Job ID: 410-206485-1

CI	ient	Samp	le l	ID:	PE-1	
----	------	------	------	-----	------	--

Date Collected: 02/04/25 08:15 Date Received: 02/04/25 18:38

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	19000	cn	6400	510	ug/Kg	₩	02/07/25 16:03	02/14/25 00:20	1000
1,2-Dichloroethane	ND	cn	6400	760	ug/Kg	₽	02/07/25 16:03	02/14/25 00:20	1000
1,3,5-Trimethylbenzene	110000	cn	6400	640	ug/Kg	₽	02/07/25 16:03	02/14/25 00:20	1000
Toluene	15000	cn	6400	760	ug/Kg	₽	02/07/25 16:03	02/14/25 00:20	1000
Xylenes, Total	160000	cn	6400	1800	ug/Kg	₽	02/07/25 16:03	02/14/25 00:20	1000
Methyl tertiary butyl ether	ND	cn	6400	760	ug/Kg	₽	02/07/25 16:03	02/14/25 00:20	1000
Benzene	ND	cn	6400	640	ug/Kg	₽	02/07/25 16:03	02/14/25 00:20	1000
Naphthalene	87000	cn	6400	2500	ug/Kg	₽	02/07/25 16:03	02/14/25 00:20	1000
1,2,4-Trimethylbenzene	290000	cn	6400	760	ug/Kg	₽	02/07/25 16:03	02/14/25 00:20	1000
Isopropylbenzene	16000	cn	6400	760	ug/Kg	₽	02/07/25 16:03	02/14/25 00:20	1000
1,2-Dibromoethane	ND	cn	6400	760	ug/Kg	₽	02/07/25 16:03	02/14/25 00:20	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	81	cn	54 - 135				02/07/25 16:03	02/14/25 00:20	1000
4-Bromofluorobenzene (Surr)	263	^c S1+ cn	50 - 131				02/07/25 16:03	02/14/25 00:20	1000
Dibromofluoromethane (Surr)	79	cn	50 - 141				02/07/25 16:03	02/14/25 00:20	1000
Toluene-d8 (Surr)	112	cn	52 - 141				02/07/25 16:03	02/14/25 00:20	1000
Method: SW846 6020B - Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lead	25		0.22	0.085	mg/Kg	₽	02/13/25 22:00	02/17/25 22:37	2
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Percent Moisture (EPA Moisture)	16.9	!	1.0	1.0	%			02/07/25 13:03	

Page 9 of 34

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Client Sample ID: PE-2

Date Collected: 02/04/25 08:25

Date Received: 02/04/25 18:38

Percent Moisture (EPA Moisture)

Lab Sample ID: 410-206485-2

Matrix: Solid

02/07/25 13:03

Percent Solids: 84.2

Job ID: 410-206485-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.1	1.2	ug/Kg		02/07/25 15:36	02/10/25 19:03	1
1,2-Dichloroethane	ND		6.1	0.74	ug/Kg	₽	02/07/25 15:36	02/10/25 19:03	1
1,3,5-Trimethylbenzene	12		6.1	1.8	ug/Kg	₽	02/07/25 15:36	02/10/25 19:03	1
Toluene	ND		6.1	1.2	ug/Kg	₽	02/07/25 15:36	02/10/25 19:03	1
Xylenes, Total	7.6	J	12	0.86	ug/Kg	₽	02/07/25 15:36	02/10/25 19:03	1
Methyl tertiary butyl ether	ND		6.1	0.98	ug/Kg	₽	02/07/25 15:36	02/10/25 19:03	1
Benzene	ND		6.1	0.98	ug/Kg	₽	02/07/25 15:36	02/10/25 19:03	1
Naphthalene	ND		6.1	2.5	ug/Kg	₽	02/07/25 15:36	02/10/25 19:03	1
1,2,4-Trimethylbenzene	21		6.1	1.2	ug/Kg	₽	02/07/25 15:36	02/10/25 19:03	1
Isopropylbenzene	ND		6.1	1.8	ug/Kg	₽	02/07/25 15:36	02/10/25 19:03	1
1,2-Dibromoethane	ND		6.1	0.86	ug/Kg	₽	02/07/25 15:36	02/10/25 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		54 - 135				02/07/25 15:36	02/10/25 19:03	1
4-Bromofluorobenzene (Surr)	94		50 - 131				02/07/25 15:36	02/10/25 19:03	1
Dibromofluoromethane (Surr)	110		50 - 141				02/07/25 15:36	02/10/25 19:03	1
Toluene-d8 (Surr)	90		52 - 141				02/07/25 15:36	02/10/25 19:03	1
- Method: SW846 6020B - Metal	ls (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	36		0.23	0.087	mg/Kg	*	02/13/25 22:00	02/19/25 09:38	2
- General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

1.0

15.8 !

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Lab Sample ID: 410-206485-3

Matrix: Solid

Percent Solids: 81.4

Job ID: 410-206485-1

CI	lient	Samp	le l	ID:	PE-3
----	-------	------	------	-----	------

Date Collected: 02/04/25 08:30 Date Received: 02/04/25 18:38

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Ethylbenzene	ND	cn	340	27	ug/Kg		02/07/25 16:03	02/13/25 22:57	50
1,2-Dichloroethane	ND	cn	340	41	ug/Kg	₩	02/07/25 16:03	02/13/25 22:57	50
1,3,5-Trimethylbenzene	ND	cn	340	34	ug/Kg	₽	02/07/25 16:03	02/13/25 22:57	50
Toluene	ND	cn	340	41	ug/Kg	₩	02/07/25 16:03	02/13/25 22:57	50
Xylenes, Total	ND	cn	340	96	ug/Kg	₽	02/07/25 16:03	02/13/25 22:57	50
Methyl tertiary butyl ether	ND	cn	340	41	ug/Kg	₽	02/07/25 16:03	02/13/25 22:57	50
Benzene	ND	cn	340	34	ug/Kg	₽	02/07/25 16:03	02/13/25 22:57	50
Naphthalene	ND	cn	340	140	ug/Kg	₽	02/07/25 16:03	02/13/25 22:57	50
1,2,4-Trimethylbenzene	ND	cn	340	41	ug/Kg	₩	02/07/25 16:03	02/13/25 22:57	50
Isopropylbenzene	ND	cn	340	41	ug/Kg	₽	02/07/25 16:03	02/13/25 22:57	5
1,2-Dibromoethane	ND	cn	340	41	ug/Kg	₽	02/07/25 16:03	02/13/25 22:57	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	93	cn	54 - 135				02/07/25 16:03	02/13/25 22:57	5
4-Bromofluorobenzene (Surr)	89	^c cn	50 - 131				02/07/25 16:03	02/13/25 22:57	5
Dibromofluoromethane (Surr)	93	cn	50 - 141				02/07/25 16:03	02/13/25 22:57	5
Toluene-d8 (Surr)	90	cn	52 - 141				02/07/25 16:03	02/13/25 22:57	5
Method: SW846 6020B - Metals	(ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lead	40		0.20	0.078	mg/Kg		02/13/25 22:00	02/17/25 23:06	:
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Percent Moisture (EPA Moisture)	18.6		1.0	1.0	%			02/07/25 13:03	

6

Ō

10

11

13

14

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Lab Sample ID: 410-206485-4

Matrix: Solid

Job ID: 410-206485-1

Percent Solids: 88.3

C	lient	Samp	le ID	: PE-4

Date Collected: 02/04/25 08:35 Date Received: 02/04/25 18:38

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND	cn	2900	230	ug/Kg		02/07/25 16:46	02/13/25 23:39	500
1,2-Dichloroethane	ND	cn	2900	340	ug/Kg	₩	02/07/25 16:46	02/13/25 23:39	500
1,3,5-Trimethylbenzene	600	J cn	2900	290	ug/Kg	₽	02/07/25 16:46	02/13/25 23:39	500
Toluene	ND	cn	2900	340	ug/Kg	₩	02/07/25 16:46	02/13/25 23:39	500
Xylenes, Total	ND	cn	2900	800	ug/Kg	₩	02/07/25 16:46	02/13/25 23:39	500
Methyl tertiary butyl ether	ND	cn	2900	340	ug/Kg	₽	02/07/25 16:46	02/13/25 23:39	500
Benzene	ND	cn	2900	290	ug/Kg	₽	02/07/25 16:46	02/13/25 23:39	500
Naphthalene	ND	cn	2900	1100	ug/Kg	₽	02/07/25 16:46	02/13/25 23:39	500
1,2,4-Trimethylbenzene	1100	J cn	2900	340	ug/Kg	₩	02/07/25 16:46	02/13/25 23:39	500
Isopropylbenzene	ND	cn	2900	340	ug/Kg	₽	02/07/25 16:46	02/13/25 23:39	500
1,2-Dibromoethane	ND	cn	2900	340	ug/Kg	₽	02/07/25 16:46	02/13/25 23:39	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92	cn	54 - 135				02/07/25 16:46	02/13/25 23:39	500
4-Bromofluorobenzene (Surr)	87	^c cn	50 - 131				02/07/25 16:46	02/13/25 23:39	500
Dibromofluoromethane (Surr)	87	cn	50 - 141				02/07/25 16:46	02/13/25 23:39	500
Toluene-d8 (Surr)	85	cn	52 - 141				02/07/25 16:46	02/13/25 23:39	500
Method: SW846 6020B - Metals ((ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	22		0.20	0.075	mg/Kg	*	02/13/25 22:00	02/17/25 23:02	2
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.7	1	1.0	1.0	%			02/07/25 13:03	1

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Client Sample ID: PE-5

General Chemistry

Percent Moisture (EPA Moisture)

Analyte

Date Collected: 02/04/25 08:40

Date Received: 02/04/25 18:38

Lab Sample ID: 410-206485-5

Matrix: Solid

Percent Solids: 88.1

Job ID: 410-206485-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	MD	cn	310	25	ug/Kg		02/07/25 16:46	02/13/25 23:18	50
1,2-Dichloroethane	ND	cn	310	37	ug/Kg	₽	02/07/25 16:46	02/13/25 23:18	50
1,3,5-Trimethylbenzene	45	J cn	310	31	ug/Kg	₽	02/07/25 16:46	02/13/25 23:18	50
Toluene	ND	cn	310	37	ug/Kg	₽	02/07/25 16:46	02/13/25 23:18	50
Xylenes, Total	ND	cn	310	87	ug/Kg	₩	02/07/25 16:46	02/13/25 23:18	50
Methyl tertiary butyl ether	ND	cn	310	37	ug/Kg	₩	02/07/25 16:46	02/13/25 23:18	50
Benzene	ND	cn	310	31	ug/Kg	₩	02/07/25 16:46	02/13/25 23:18	50
Naphthalene	ND	cn	310	120	ug/Kg	₩	02/07/25 16:46	02/13/25 23:18	50
1,2,4-Trimethylbenzene	ND	cn	310	37	ug/Kg	₩	02/07/25 16:46	02/13/25 23:18	50
Isopropylbenzene	ND	cn	310	37	ug/Kg	₩	02/07/25 16:46	02/13/25 23:18	50
1,2-Dibromoethane	ND	cn	310	37	ug/Kg	\$	02/07/25 16:46	02/13/25 23:18	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95	cn	54 - 135				02/07/25 16:46	02/13/25 23:18	50
4-Bromofluorobenzene (Surr)	90	^c cn	50 - 131				02/07/25 16:46	02/13/25 23:18	50
Dibromofluoromethane (Surr)	95	cn	50 - 141				02/07/25 16:46	02/13/25 23:18	50
Toluene-d8 (Surr)	92	cn	52 - 141				02/07/25 16:46	02/13/25 23:18	50
Method: SW846 6020B - Metal:	s (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		0.17	0.064	mg/Kg	— <u></u>	02/13/25 22:00	02/17/25 22:41	2

RL

1.0

Result Qualifier

11.9 !

MDL Unit

1.0

D

Prepared

Analyzed

02/07/25 13:03

Eurofins Lancaster Laboratories Environment Testing, LLC

Page 13 of 34

2

4

6

<u>۾</u>

9

11

12

14

15

Dil Fac

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Client Sample ID: PE-6

Percent Moisture (EPA Moisture)

Lab Sample ID: 410-206485-6

02/07/25 13:03

Matrix: Solid Percent Solids: 84.3

Job ID: 410-206485-1

Date Received: 02/04/25 18:38		
Date Collected: 02/04/25 08:45		

15.7 !

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	MD	cn	340	27	ug/Kg	<u></u>	02/07/25 16:46	02/13/25 22:16	50
1,2-Dichloroethane	ND	cn	340	41	ug/Kg	₽	02/07/25 16:46	02/13/25 22:16	50
1,3,5-Trimethylbenzene	ND	cn	340	34	ug/Kg	₽	02/07/25 16:46	02/13/25 22:16	50
Toluene	ND	cn	340	41	ug/Kg	₽	02/07/25 16:46	02/13/25 22:16	50
Xylenes, Total	ND	cn	340	96	ug/Kg	₽	02/07/25 16:46	02/13/25 22:16	50
Methyl tertiary butyl ether	ND	cn	340	41	ug/Kg	₩	02/07/25 16:46	02/13/25 22:16	50
Benzene	ND	cn	340	34	ug/Kg	₩	02/07/25 16:46	02/13/25 22:16	50
Naphthalene	ND	cn	340	140	ug/Kg	₩	02/07/25 16:46	02/13/25 22:16	50
1,2,4-Trimethylbenzene	ND	cn	340	41	ug/Kg	₽	02/07/25 16:46	02/13/25 22:16	50
Isopropylbenzene	ND	cn	340	41	ug/Kg	₩	02/07/25 16:46	02/13/25 22:16	50
1,2-Dibromoethane	ND	cn	340	41	ug/Kg	\$	02/07/25 16:46	02/13/25 22:16	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98	cn	54 - 135				02/07/25 16:46	02/13/25 22:16	50
4-Bromofluorobenzene (Surr)	91	^c cn	50 - 131				02/07/25 16:46	02/13/25 22:16	50
Dibromofluoromethane (Surr)	98	cn	50 - 141				02/07/25 16:46	02/13/25 22:16	50
Toluene-d8 (Surr)	93	cn	52 - 141				02/07/25 16:46	02/13/25 22:16	50
Method: SW846 6020B - Metal	s (ICP/MS)								
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	24		0.21	0.081	mg/Kg	*	02/13/25 22:00	02/17/25 22:49	2
General Chemistry									
Analyte	Pocult	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac

1.0

1.0 %

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Client Sample ID: PE-7

Date Collected: 02/04/25 08:50

Date Received: 02/04/25 18:38

Percent Moisture (EPA Moisture)

Lab Sample ID: 410-206485-7

Matrix: Solid

02/07/25 13:03

Percent Solids: 86.7

Job ID: 410-206485-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5400	cn	3200	260	ug/Kg	<u></u>	02/11/25 22:35	02/13/25 23:59	500
1,2-Dichloroethane	ND	cn	3200	390	ug/Kg	₽	02/11/25 22:35	02/13/25 23:59	500
1,3,5-Trimethylbenzene	53000	cn	3200	320	ug/Kg	₩	02/11/25 22:35	02/13/25 23:59	500
Toluene	1900	J cn	3200	390	ug/Kg	₽	02/11/25 22:35	02/13/25 23:59	500
Xylenes, Total	51000	cn	3200	900	ug/Kg	₽	02/11/25 22:35	02/13/25 23:59	500
Methyl tertiary butyl ether	ND	cn	3200	390	ug/Kg	₽	02/11/25 22:35	02/13/25 23:59	500
Benzene	ND	cn	3200	320	ug/Kg	₽	02/11/25 22:35	02/13/25 23:59	500
Naphthalene	5400	cn	3200	1300	ug/Kg	₽	02/11/25 22:35	02/13/25 23:59	500
1,2,4-Trimethylbenzene	120000	cn	3200	390	ug/Kg	₽	02/11/25 22:35	02/13/25 23:59	500
Isopropylbenzene	5500	cn	3200	390	ug/Kg	₽	02/11/25 22:35	02/13/25 23:59	500
1,2-Dibromoethane	ND	cn	3200	390	ug/Kg	₽	02/11/25 22:35	02/13/25 23:59	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97	cn	54 - 135				02/11/25 22:35	02/13/25 23:59	500
4-Bromofluorobenzene (Surr)	213	^c S1+ cn	50 - 131				02/11/25 22:35	02/13/25 23:59	500
Dibromofluoromethane (Surr)	90	cn	50 - 141				02/11/25 22:35	02/13/25 23:59	500
Toluene-d8 (Surr)	115	cn	52 - 141				02/11/25 22:35	02/13/25 23:59	500
Method: SW846 6020B - Metal	s (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	28		0.22	0.083	mg/Kg	*	02/16/25 21:00	02/17/25 18:00	2
General Chemistry									
Analyte	Daguit	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac

1.0

1.0

13.3 !

2

<u>ی</u>

6

8

10

12

. .

15

2/19/2025

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Lab Sample ID: 410-206485-8

Matrix: Solid

Percent Solids: 86.6

Job ID: 410-206485-1

Client	Samp	le ID:	PE-8
--------	------	--------	------

Date Collected: 02/04/25 08:55 Date Received: 02/04/25 18:38

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Ethylbenzene	ND	cn	300	24	ug/Kg		02/07/25 16:46	02/13/25 22:37	50
1,2-Dichloroethane	ND	cn	300	36	ug/Kg	₽	02/07/25 16:46	02/13/25 22:37	50
1,3,5-Trimethylbenzene	ND	cn	300	30	ug/Kg	₽	02/07/25 16:46	02/13/25 22:37	50
Toluene	ND	cn	300	36	ug/Kg	₽	02/07/25 16:46	02/13/25 22:37	50
Xylenes, Total	ND	cn	300	83	ug/Kg	₽	02/07/25 16:46	02/13/25 22:37	50
Methyl tertiary butyl ether	ND	cn	300	36	ug/Kg	₽	02/07/25 16:46	02/13/25 22:37	50
Benzene	ND	cn	300	30	ug/Kg	₽	02/07/25 16:46	02/13/25 22:37	50
Naphthalene	ND	cn	300	120	ug/Kg	₽	02/07/25 16:46	02/13/25 22:37	50
1,2,4-Trimethylbenzene	ND	cn	300	36	ug/Kg	₽	02/07/25 16:46	02/13/25 22:37	50
Isopropylbenzene	ND	cn	300	36	ug/Kg	₽	02/07/25 16:46	02/13/25 22:37	50
1,2-Dibromoethane	ND	cn	300	36	ug/Kg	₽	02/07/25 16:46	02/13/25 22:37	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	94	cn	54 - 135				02/07/25 16:46	02/13/25 22:37	50
4-Bromofluorobenzene (Surr)	89	^c cn	50 - 131				02/07/25 16:46	02/13/25 22:37	50
Dibromofluoromethane (Surr)	93	cn	50 - 141				02/07/25 16:46	02/13/25 22:37	50
Toluene-d8 (Surr)	89	cn	52 - 141				02/07/25 16:46	02/13/25 22:37	50
Method: SW846 6020B - Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lead	20		0.21	0.081	mg/Kg	<u></u>	02/13/25 22:00	02/17/25 22:45	2
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.4		1.0	1.0	%			02/07/25 13:03	

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Client Sample ID: Trip Blank Lab Sample ID: 410-206485-9

Date Collected: 02/03/25 00:00 **Matrix: Water** Date Received: 02/04/25 18:38

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			02/12/25 12:48	1
Ethylbenzene	ND		1.0	0.40	ug/L			02/12/25 12:48	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			02/12/25 12:48	1
Toluene	ND		1.0	0.30	ug/L			02/12/25 12:48	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			02/12/25 12:48	1
Xylenes, Total	ND		6.0	0.40	ug/L			02/12/25 12:48	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			02/12/25 12:48	1
Benzene	ND		1.0	0.30	ug/L			02/12/25 12:48	1
Naphthalene	ND		5.0	1.0	ug/L			02/12/25 12:48	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			02/12/25 12:48	1
Isopropylbenzene	ND		5.0	0.30	ug/L			02/12/25 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120			-		02/12/25 12:48	1
4-Bromofluorobenzene (Surr)	93		80 - 120					02/12/25 12:48	1
Dibromofluoromethane (Surr)	107		80 - 120					02/12/25 12:48	1
Toluene-d8 (Surr)	97		80 - 120					02/12/25 12:48	1

Job ID: 410-206485-1

Surrogate Summary

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Job ID: 410-206485-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid Prep Type: Total/NA

		DCA	BFB	DBFM	TOL	·
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)	
410-206485-1	PE-1	81 cn	263 ^c	79 cn	112 cn	
			S1+ cn			
410-206485-2	PE-2	113	94	110	90	
410-206485-3	PE-3	93 cn	89 ^c cn	93 cn	90 cn	
410-206485-4	PE-4	92 cn	87 ^c cn	87 cn	85 cn	
410-206485-5	PE-5	95 cn	90 ^c cn	95 cn	92 cn	
410-206485-6	PE-6	98 cn	91 ^c cn	98 cn	93 cn	
410-206485-7	PE-7	97 cn	213 ^c	90 cn	115 cn	
			S1+ cn			
410-206485-8	PE-8	94 cn	89 ^c cn	93 cn	89 cn	
LCS 410-604127/5	Lab Control Sample	112	94	109	94	
LCS 410-605912/6	Lab Control Sample	103	95	103	96	
LCSD 410-604127/6	Lab Control Sample Dup	110	93	108	92	
LCSD 410-605912/8	Lab Control Sample Dup	104	97	102	96	
MB 410-604127/7	Method Blank	110	90	108	90	
MB 410-605912/7	Method Blank	102	90	97	94	

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260D/UST - Volatile Organic Compounds by GC/MS

Matrix: Water

		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-206485-9	Trip Blank	99	93	107	97
LCS 410-605184/4	Lab Control Sample	101	95	105	96
LCSD 410-605184/5	Lab Control Sample Dup	99	95	104	96
MB 410-605184/6	Method Blank	99	93	105	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Eurofins Lancaster Laboratories Environment Testing, LLC

Page 18 of 34

Prep Type: Total/NA

Job ID: 410-206485-1

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-604127/7

Matrix: Solid

Analysis Batch: 604127

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	MD		5.0	1.0	ug/Kg			02/10/25 13:14	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			02/10/25 13:14	1
1,3,5-Trimethylbenzene	ND		5.0	1.5	ug/Kg			02/10/25 13:14	1
Toluene	ND		5.0	1.0	ug/Kg			02/10/25 13:14	1
Xylenes, Total	ND		10	0.70	ug/Kg			02/10/25 13:14	1
Methyl tertiary butyl ether	ND		5.0	0.80	ug/Kg			02/10/25 13:14	1
Benzene	ND		5.0	0.80	ug/Kg			02/10/25 13:14	1
Naphthalene	ND		5.0	2.0	ug/Kg			02/10/25 13:14	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/Kg			02/10/25 13:14	1
Isopropylbenzene	ND		5.0	1.5	ug/Kg			02/10/25 13:14	1
1,2-Dibromoethane	ND		5.0	0.70	ug/Kg			02/10/25 13:14	1

MB MB

Surrogate	%Recovery Qual	alifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110	54 - 135		02/10/25 13:14	1
4-Bromofluorobenzene (Surr)	90	50 - 131		02/10/25 13:14	1
Dibromofluoromethane (Surr)	108	50 - 141		02/10/25 13:14	1
Toluene-d8 (Surr)	90	52 - 141		02/10/25 13:14	1

Lab Sample ID: LCS 410-604127/5

Matrix: Solid

Analysis Batch: 604127

Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	20.0	16.4		ug/Kg		82	72 - 118	
1,2-Dichloroethane	20.0	18.3		ug/Kg		92	72 - 124	
1,3,5-Trimethylbenzene	20.0	16.2		ug/Kg		81	73 - 120	
Toluene	20.0	16.3		ug/Kg		81	71 - 120	
Xylenes, Total	60.0	49.9		ug/Kg		83	75 - 120	
Methyl tertiary butyl ether	20.0	17.3		ug/Kg		86	63 - 120	
Benzene	20.0	17.2		ug/Kg		86	80 - 120	
Naphthalene	20.0	17.5		ug/Kg		88	48 - 130	
1,2,4-Trimethylbenzene	20.0	15.9		ug/Kg		79	73 - 120	
Isopropylbenzene	20.0	18.0		ug/Kg		90	77 - 120	
1,2-Dibromoethane	20.0	18.6		ug/Kg		93	76 - 120	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		<u>54 - 135</u>
4-Bromofluorobenzene (Surr)	94		50 - 131
Dibromofluoromethane (Surr)	109		50 - 141
Toluene-d8 (Surr)	94		52 ₋ 141

Lab Sample ID: LCSD 410-604127/6

Matrix: Solid

Analysis Batch: 604127

Client Sample ID: Lab	Control Sample Dup
	Pron Type: Total/NA

2/19/2025

	Spike	LCSD	LCSD			%Rec		RPD
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	RPD	Limit
Ethylbenzene	20.0	18.2	ug/Ko	 I	91	72 - 118	10	30
1,2-Dichloroethane	20.0	20.7	ug/Ko	ı	104	72 - 124	12	30

Eurofins Lancaster Laboratories Environment Testing, LLC

Project/Site: SPLP - Washington Crossing

Client: Groundwater & Environmental Services Inc

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

Lab Sample ID: LCSD 410-604127/6

Matrix: Solid

Analysis Batch: 604127

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Job ID: 410-206485-1

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,3,5-Trimethylbenzene	20.0	17.6		ug/Kg		88	73 - 120	8	30
Toluene	20.0	18.1		ug/Kg		91	71 - 120	11	30
Xylenes, Total	60.0	55.9		ug/Kg		93	75 - 120	11	30
Methyl tertiary butyl ether	20.0	19.3		ug/Kg		96	63 - 120	11	30
Benzene	20.0	19.4		ug/Kg		97	80 - 120	12	30
Naphthalene	20.0	18.8		ug/Kg		94	48 - 130	7	30
1,2,4-Trimethylbenzene	20.0	17.1		ug/Kg		86	73 - 120	8	30
Isopropylbenzene	20.0	19.8		ug/Kg		99	77 - 120	10	30
1,2-Dibromoethane	20.0	20.0		ug/Kg		100	76 - 120	7	30

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		54 - 135
4-Bromofluorobenzene (Surr)	93		50 - 131
Dibromofluoromethane (Surr)	108		50 - 141
Toluene-d8 (Surr)	92		52 - 141

Lab Sample ID: MB 410-605912/7

Matrix: Solid

Analysis Batch: 605912

Client Sample ID: Method Blank

Prep Type: Total/NA

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Ethylbenzene	ND		250	20	ug/Kg			02/13/25 20:12	50	
1,2-Dichloroethane	ND		250	30	ug/Kg			02/13/25 20:12	50	
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			02/13/25 20:12	50	
Toluene	ND		250	30	ug/Kg			02/13/25 20:12	50	
Xylenes, Total	ND		250	70	ug/Kg			02/13/25 20:12	50	
Methyl tertiary butyl ether	ND		250	30	ug/Kg			02/13/25 20:12	50	
Benzene	ND		250	25	ug/Kg			02/13/25 20:12	50	
Naphthalene	ND		250	100	ug/Kg			02/13/25 20:12	50	
1,2,4-Trimethylbenzene	ND		250	30	ug/Kg			02/13/25 20:12	50	
Isopropylbenzene	ND		250	30	ug/Kg			02/13/25 20:12	50	
1,2-Dibromoethane	ND		250	30	ug/Kg			02/13/25 20:12	50	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		54 - 135		02/13/25 20:12	50
4-Bromofluorobenzene (Surr)	90		50 - 131		02/13/25 20:12	50
Dibromofluoromethane (Surr)	97		50 - 141		02/13/25 20:12	50
Toluene-d8 (Surr)	94		52 - 141		02/13/25 20:12	50

Lab Sample ID: LCS 410-605912/6

Matrix: Solid

Analysis Batch: 605912

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	1000	944		ug/Kg		94	72 - 118	
1,2-Dichloroethane	1000	1010		ug/Kg		101	72 - 124	
1,3,5-Trimethylbenzene	1000	929		ug/Kg		93	73 - 120	
Toluene	1000	961		ug/Kg		96	71 - 120	

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Page 20 of 34

LCS LCS

2890

921

971

898

905

1090

945

ug/Kg

ug/Kg

Result Qualifier

Spike

Added

3000

1000

1000

1000

1000

1000

1000

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Job ID: 410-206485-1

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

Lab Sample ID: LCS 410-605912/6

Matrix: Solid

Analyte

Benzene

Naphthalene

Xylenes, Total

Analysis Batch: 605912

Methyl tertiary butyl ether

1,2,4-Trimethylbenzene

Isopropylbenzene

1,2-Dibromoethane

Client Sample ID: Lab Control Sample Prep Type: Total/NA

			%Rec
Unit	D	%Rec	Limits
ug/Kg		96	75 - 120
ug/Kg		92	63 - 120
ug/Kg		97	80 - 120
ug/Kg		90	68 - 130
ug/Kg		90	68 - 120

77 - 120

76 - 120

109

94

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		54 - 135
4-Bromofluorobenzene (Surr)	95		50 - 131
Dibromofluoromethane (Surr)	103		50 - 141
Toluene-d8 (Surr)	96		52 - 141

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Lab Sample ID: LCSD 410-605912/8 **Matrix: Solid**

Analysis Batch: 605912

Analysis Daton. 000012									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ethylbenzene	1000	939		ug/Kg		94	72 - 118	1	30
1,2-Dichloroethane	1000	1000		ug/Kg		100	72 - 124	1	30
1,3,5-Trimethylbenzene	1000	934		ug/Kg		93	73 - 120	0	30
Toluene	1000	953		ug/Kg		95	71 - 120	1	30
Xylenes, Total	3000	2900		ug/Kg		97	75 - 120	0	30
Methyl tertiary butyl ether	1000	931		ug/Kg		93	63 - 120	1	30
Benzene	1000	955		ug/Kg		95	80 - 120	2	30
Naphthalene	1000	926		ug/Kg		93	68 - 130	3	30
1,2,4-Trimethylbenzene	1000	921		ug/Kg		92	68 - 120	2	30
Isopropylbenzene	1000	1070		ug/Kg		107	77 - 120	1	30
1,2-Dibromoethane	1000	958		ug/Kg		96	76 - 120	1	30

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		54 _ 135
4-Bromofluorobenzene (Surr)	97		50 - 131
Dibromofluoromethane (Surr)	102		50 - 141
Toluene-d8 (Surr)	96		52 ₋ 141

Method: 8260D/UST - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-605184/6

Matrix: Water

Analysis Batch: 605184

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB					
Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
ND —	1.0	0.30 ug/L		02/12/25 12:24	1
ND	1.0	0.40 ug/L		02/12/25 12:24	1
ND	1.0	0.30 ug/L		02/12/25 12:24	1
ND	1.0	0.30 ug/L		02/12/25 12:24	1
	ND ND ND	Result Qualifier RL ND 1.0 ND 1.0 ND 1.0	Result Qualifier RL MDL Unit ND 1.0 0.30 ug/L ND 1.0 0.40 ug/L ND 1.0 0.30 ug/L	Result Qualifier RL MDL Unit D Prepared ND 1.0 0.30 ug/L ND 1.0 0.40 ug/L ND 1.0 0.30 ug/L	Result Qualifier RL MDL Unit D Prepared Analyzed ND 1.0 0.30 ug/L 02/12/25 12:24 ND 1.0 0.40 ug/L 02/12/25 12:24 ND 1.0 0.30 ug/L 02/12/25 12:24

Eurofins Lancaster Laboratories Environment Testing, LLC

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Method: 8260D/UST - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-605184/6

Matrix: Water

Analysis Batch: 605184

Client Sample ID: Method Blank

Job ID: 410-206485-1

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			02/12/25 12:24	1
Xylenes, Total	ND		6.0	0.40	ug/L			02/12/25 12:24	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			02/12/25 12:24	1
Benzene	ND		1.0	0.30	ug/L			02/12/25 12:24	1
Naphthalene	ND		5.0	1.0	ug/L			02/12/25 12:24	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			02/12/25 12:24	1
Isopropylbenzene	ND		5.0	0.30	ug/L			02/12/25 12:24	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99	80 - 120		02/12/25 12:24	1
4-Bromofluorobenzene (Surr)	93	80 - 120		02/12/25 12:24	1
Dibromofluoromethane (Surr)	105	80 - 120		02/12/25 12:24	1
Toluene-d8 (Surr)	96	80 - 120		02/12/25 12:24	1

Lab Sample ID: LCS 410-605184/4	Client Sample ID: Lab Control Sample
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 605184	

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,2-Dibromoethane	20.0	18.0		ug/L		90	77 - 120	
Ethylbenzene	20.0	19.9		ug/L		99	80 - 120	
1,2-Dichloroethane	20.0	19.8		ug/L		99	73 - 124	
Toluene	20.0	19.5		ug/L		97	80 - 120	
1,3,5-Trimethylbenzene	20.0	18.8		ug/L		94	75 - 120	
Xylenes, Total	60.0	61.0		ug/L		102	80 - 120	
Methyl tertiary butyl ether	20.0	19.7		ug/L		98	69 - 122	
Benzene	20.0	20.1		ug/L		101	80 - 120	
Naphthalene	20.0	17.3		ug/L		87	53 - 124	
1,2,4-Trimethylbenzene	20.0	19.0		ug/L		95	75 - 120	
Isopropylbenzene	20.0	20.6		ug/L		103	80 - 120	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	105		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 605184

Matrix: Water

Lab Sample ID: LCSD 410-605184/5

	Spike	LCSD	LCSD			%Rec		RPD
Analyte	Added	Result	Qualifier	Unit D	%Rec	Limits	RPD	Limit
1,2-Dibromoethane	20.0	19.3		ug/L	97	77 - 120	7	30
Ethylbenzene	20.0	21.2		ug/L	106	80 - 120	6	30
1,2-Dichloroethane	20.0	20.8		ug/L	104	73 - 124	5	30
Toluene	20.0	21.1		ug/L	106	80 - 120	8	30
1,3,5-Trimethylbenzene	20.0	20.3		ug/L	102	75 - 120	8	30
Xylenes, Total	60.0	65.6		ug/L	109	80 - 120	7	30

Eurofins Lancaster Laboratories Environment Testing, LLC

Page 22 of 34

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Job ID: 410-206485-1

Prep Batch: 605050

Prep Type: Total/NA

Prep Batch: 605050

Prep Type: Total/NA

Prep Batch: 605051

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Method: 8260D/UST - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-605184/5 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 605184

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Methyl tertiary butyl ether	20.0	19.6		ug/L		98	69 - 122	0	30
Benzene	20.0	21.4		ug/L		107	80 - 120	6	30
Naphthalene	20.0	17.1		ug/L		85	53 - 124	1	30
1,2,4-Trimethylbenzene	20.0	20.5		ug/L		103	75 - 120	7	30
Isopropylbenzene	20.0	22.0		ug/L		110	80 - 120	7	30

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-605050/1-A ^2 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Solid Analysis Batch: 607805

мв мв

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND -	0.20	0.076 mg/Kg		02/13/25 22:00	02/19/25 09:01	2

Lab Sample ID: LCS 410-605050/2-A ^2

Matrix: Solid

Analysis Batch: 607805

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Lead	 	5.00	5.53		mg/Kg		111	88 - 117	

Lab Sample ID: MB 410-605051/1-A ^2

Matrix: Solid

Analysis Batch: 606990

MB MB

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	0.20	0.076 mg/Kg		02/13/25 22:00	02/17/25 20:36	2

_	
Lab Sample ID: LCS 410-605051/2-A ^2	Client Sample ID: Lab Control Sample
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 606990	Prep Batch: 605051

ı			Spike	LUS	LCS			70KeC	
	Analyte		Added	Result	Qualifier Uni	t D	%Rec	Limits	
l	Lead		5.00	5.36	mg/	Kg	107	88 - 117	_

Lab Sample ID: MB 410-606428/1-A ^2

Matrix: Solid

Analysis Batch: 606990

Client Sample ID: Method Blank	
Prep Type: Total/NA	
Pren Batch: 606428	

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.20	0.076	ma/Ka		02/16/25 21:00	02/17/25 15:46	2

QC Sample Results

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Job ID: 410-206485-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-606428/2-A ^2

Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 606990

		Prep Type: Total/NA
		Prep Batch: 606428
Spike	LCS LCS	%Rec

 Analyte
 Added
 Result
 Qualifier
 Unit
 D
 %Rec
 Limits

 Lead
 5.00
 5.18
 mg/Kg
 104
 88 - 117

3

6

8

10

11

13

14

Job ID: 410-206485-1

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

GC/MS VOA

Prep Batch:	603750
-------------	--------

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-206485-2	PE-2	Total/NA	Solid	5035	

Prep Batch: 603754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-206485-1	PE-1	Total/NA	Solid	5035	
410-206485-3	PE-3	Total/NA	Solid	5035	
410-206485-4	PE-4	Total/NA	Solid	5035	
410-206485-5	PE-5	Total/NA	Solid	5035	
410-206485-6	PE-6	Total/NA	Solid	5035	
410-206485-8	PE-8	Total/NA	Solid	5035	

Analysis Batch: 604127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-206485-2	PE-2	Total/NA	Solid	8260D	603750
MB 410-604127/7	Method Blank	Total/NA	Solid	8260D	
LCS 410-604127/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 410-604127/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

Prep Batch: 605024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-206485-7	PE-7	Total/NA	Solid	5030C	

Analysis Batch: 605184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-206485-9	Trip Blank	Total/NA	Water	8260D/UST	
MB 410-605184/6	Method Blank	Total/NA	Water	8260D/UST	
LCS 410-605184/4	Lab Control Sample	Total/NA	Water	8260D/UST	
LCSD 410-605184/5	Lab Control Sample Dup	Total/NA	Water	8260D/UST	

Analysis Batch: 605912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-206485-1	PE-1	Total/NA	Solid	8260D	603754
410-206485-3	PE-3	Total/NA	Solid	8260D	603754
410-206485-4	PE-4	Total/NA	Solid	8260D	603754
410-206485-5	PE-5	Total/NA	Solid	8260D	603754
410-206485-6	PE-6	Total/NA	Solid	8260D	603754
410-206485-7	PE-7	Total/NA	Solid	8260D	605024
410-206485-8	PE-8	Total/NA	Solid	8260D	603754
MB 410-605912/7	Method Blank	Total/NA	Solid	8260D	
LCS 410-605912/6	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 410-605912/8	Lab Control Sample Dup	Total/NA	Solid	8260D	

Metals

Prep Batch: 605050

Lab Sample ID 410-206485-2	Client Sample ID PE-2	Prep Type Total/NA	Matrix Solid	Method 3050B	Prep Batch
MB 410-605050/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-605050/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Eurofins Lancaster Laboratories Environment Testing, LLC

2/19/2025

Page 25 of 34

QC Association Summary

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Job ID: 410-206485-1

Metals

Prep Batch: 605051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-206485-1	PE-1	Total/NA	Solid	3050B	
410-206485-3	PE-3	Total/NA	Solid	3050B	
410-206485-4	PE-4	Total/NA	Solid	3050B	
410-206485-5	PE-5	Total/NA	Solid	3050B	
410-206485-6	PE-6	Total/NA	Solid	3050B	
410-206485-8	PE-8	Total/NA	Solid	3050B	
MB 410-605051/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-605051/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 606428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-206485-7	PE-7	Total/NA	Solid	3050B	
MB 410-606428/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-606428/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 606990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-206485-1	PE-1	Total/NA	Solid	6020B	605051
410-206485-3	PE-3	Total/NA	Solid	6020B	605051
410-206485-4	PE-4	Total/NA	Solid	6020B	605051
410-206485-5	PE-5	Total/NA	Solid	6020B	605051
410-206485-6	PE-6	Total/NA	Solid	6020B	605051
410-206485-7	PE-7	Total/NA	Solid	6020B	606428
410-206485-8	PE-8	Total/NA	Solid	6020B	605051
MB 410-605051/1-A ^2	Method Blank	Total/NA	Solid	6020B	605051
MB 410-606428/1-A ^2	Method Blank	Total/NA	Solid	6020B	606428
LCS 410-605051/2-A ^2	Lab Control Sample	Total/NA	Solid	6020B	605051
LCS 410-606428/2-A ^2	Lab Control Sample	Total/NA	Solid	6020B	606428

Analysis Batch: 607805

Lab Sample ID 410-206485-2	Client Sample ID PE-2	Prep Type Total/NA	Matrix Solid	Method 6020B	Prep Batch 605050
MB 410-605050/1-A ^2	Method Blank	Total/NA	Solid	6020B	605050
LCS 410-605050/2-A ^2	Lab Control Sample	Total/NA	Solid	6020B	605050

General Chemistry

Analysis Batch: 603678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
410-206485-1	PE-1	Total/NA	Solid	Moisture	_
410-206485-2	PE-2	Total/NA	Solid	Moisture	
410-206485-3	PE-3	Total/NA	Solid	Moisture	
410-206485-4	PE-4	Total/NA	Solid	Moisture	
410-206485-5	PE-5	Total/NA	Solid	Moisture	
410-206485-6	PE-6	Total/NA	Solid	Moisture	
410-206485-7	PE-7	Total/NA	Solid	Moisture	
410-206485-8	PE-8	Total/NA	Solid	Moisture	

Eurofins Lancaster Laboratories Environment Testing, LLC

Page 26 of 34

2/19/2025

Job ID: 410-206485-1

Project/Site: SPLP - Washington Crossing

Client: Groundwater & Environmental Services Inc

Client Sample ID: PE-1

Date Collected: 02/04/25 08:15 Date Received: 02/04/25 18:38

Lab Sample ID: 410-206485-1

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture		1	603678	X4C8	ELLE	02/07/25 13:03

Client Sample ID: PE-1 Lab Sample ID: 410-206485-1

Date Collected: 02/04/25 08:15 Date Received: 02/04/25 18:38

Matrix: Solid

Percent Solids: 83.1

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			603754	F2QS	ELLE	02/07/25 16:03
Total/NA	Analysis	8260D		1000	605912	S8BP	ELLE	02/14/25 00:20
Total/NA	Prep	3050B			605051	UAMX	ELLE	02/13/25 22:00
Total/NA	Analysis	6020B		2	606990	LHF4	ELLE	02/17/25 22:37

Client Sample ID: PE-2 Lab Sample ID: 410-206485-2

Date Collected: 02/04/25 08:25

Matrix: Solid

Date Received: 02/04/25 18:38

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture		1	603678	X4C8	ELLE	02/07/25 13:03

Client Sample ID: PE-2 Lab Sample ID: 410-206485-2 Date Collected: 02/04/25 08:25 Matrix: Solid

Date Received: 02/04/25 18:38

Percent Solids: 84.2

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			603750	F2QS	ELLE	02/07/25 15:36
Total/NA	Analysis	8260D		1	604127	DVW2	ELLE	02/10/25 19:03
Total/NA	Prep	3050B			605050	UAMX	ELLE	02/13/25 22:00
Total/NA	Analysis	6020B		2	607805	F7JF	ELLE	02/19/25 09:38

Client Sample ID: PE-3 Lab Sample ID: 410-206485-3

Date Collected: 02/04/25 08:30 Date Received: 02/04/25 18:38

Matrix: Solid

Batch Batch Dilution Batch Prepared Method or Analyzed Prep Type Factor Number Analyst Type Run Lab 02/07/25 13:03 603678 X4C8 ELLE Total/NA Analysis Moisture

Client Sample ID: PE-3 Lab Sample ID: 410-206485-3

Date Collected: 02/04/25 08:30

Matrix: Solid

Date Received: 02/04/25 18:38 Percent Solids: 81.4

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			603754	F2QS	ELLE	02/07/25 16:03
Total/NA	Analysis	8260D		50	605912	S8BP	ELLE	02/13/25 22:57
Total/NA	Prep	3050B			605051	UAMX	ELLE	02/13/25 22:00
Total/NA	Analysis	6020B		2	606990	LHF4	ELLE	02/17/25 23:06

Page 27 of 34

Job ID: 410-206485-1

Client: Groundwater & Environmental Services Inc Project/Site: SPLP - Washington Crossing

Client Sample ID: PE-4

Date Received: 02/04/25 18:38

Lab Sample ID: 410-206485-4 Date Collected: 02/04/25 08:35

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed ELLE 02/07/25 13:03 Total/NA Analysis Moisture 603678 X4C8

Client Sample ID: PE-4 Lab Sample ID: 410-206485-4

Date Collected: 02/04/25 08:35 **Matrix: Solid**

Date Received: 02/04/25 18:38 Percent Solids: 88.3

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			603754	F2QS	ELLE	02/07/25 16:46
Total/NA	Analysis	8260D		500	605912	S8BP	ELLE	02/13/25 23:39
Total/NA	Prep	3050B			605051	UAMX	ELLE	02/13/25 22:00
Total/NA	Analysis	6020B		2	606990	LHF4	ELLE	02/17/25 23:02

Client Sample ID: PE-5 Lab Sample ID: 410-206485-5

Date Collected: 02/04/25 08:40 **Matrix: Solid**

Date Received: 02/04/25 18:38

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture		1	603678	X4C8	ELLE	02/07/25 13:03

Client Sample ID: PE-5 Lab Sample ID: 410-206485-5 Date Collected: 02/04/25 08:40 Matrix: Solid

Date Received: 02/04/25 18:38 Percent Solids: 88.1

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			603754	F2QS	ELLE	02/07/25 16:46
Total/NA	Analysis	8260D		50	605912	S8BP	ELLE	02/13/25 23:18
Total/NA	Prep	3050B			605051	UAMX	ELLE	02/13/25 22:00
Total/NA	Analysis	6020B		2	606990	LHF4	ELLE	02/17/25 22:41

Client Sample ID: PE-6 Lab Sample ID: 410-206485-6

Date Collected: 02/04/25 08:45 Matrix: Solid

Date Received: 02/04/25 18:38

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture		1	603678	X4C8	ELLE	02/07/25 13:03

Client Sample ID: PE-6 Lab Sample ID: 410-206485-6

Date Collected: 02/04/25 08:45 **Matrix: Solid** Date Received: 02/04/25 18:38 Percent Solids: 84.3

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			603754	F2QS	ELLE	02/07/25 16:46
Total/NA	Analysis	8260D		50	605912	S8BP	ELLE	02/13/25 22:16
Total/NA	Prep	3050B			605051	UAMX	ELLE	02/13/25 22:00
Total/NA	Analysis	6020B		2	606990	LHF4	ELLE	02/17/25 22:49

Client: Groundwater & Environmental Services Inc Project/Site: SPLP - Washington Crossing

Client Sample ID: PE-7

Date Collected: 02/04/25 08:50 Date Received: 02/04/25 18:38 Lab Sample ID: 410-206485-7

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture		1	603678	X4C8	ELLE	02/07/25 13:03

Client Sample ID: PE-7 Lab Sample ID: 410-206485-7

Date Collected: 02/04/25 08:50 Date Received: 02/04/25 18:38

Matrix: Solid

Percent Solids: 86.7

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			605024	UK3O	ELLE	02/11/25 22:35
Total/NA	Analysis	8260D		500	605912	S8BP	ELLE	02/13/25 23:59
Total/NA	Prep	3050B			606428	UAMX	ELLE	02/16/25 21:00
Total/NA	Analysis	6020B		2	606990	LHF4	ELLE	02/17/25 18:00

Client Sample ID: PE-8 Lab Sample ID: 410-206485-8

Date Collected: 02/04/25 08:55

Matrix: Solid

Date Received: 02/04/25 18:38

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture		1	603678	X4C8	ELLE	02/07/25 13:03

Client Sample ID: PE-8 Lab Sample ID: 410-206485-8

Date Collected: 02/04/25 08:55 Date Received: 02/04/25 18:38

Matrix: Solid Percent Solids: 86.6

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			603754	F2QS	ELLE	02/07/25 16:46
Total/NA	Analysis	8260D		50	605912	S8BP	ELLE	02/13/25 22:37
Total/NA	Prep	3050B			605051	UAMX	ELLE	02/13/25 22:00
Total/NA	Analysis	6020B		2	606990	LHF4	ELLE	02/17/25 22:45

Client Sample ID: Trip Blank Lab Sample ID: 410-206485-9

Date Collected: 02/03/25 00:00

Date Received: 02/04/25 18:38

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D/UST		1	605184	P5AM	ELLE	02/12/25 12:48

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Progra	am	Identification Number	Expiration Date		
Pennsylvania	NELA)	36-00037	01-31-26		
• •	·	t the laboratory is not certif	ied by the governing authority. This lis	t may include analyt		
• •	are included in this report, bu oes not offer certification.	it the laboratory is not certif	ied by the governing authority. This lis	t may include analyt		
• •	·	it the laboratory is not certif Matrix	ied by the governing authority. This lis Analyte	t may include analyt		

Job ID: 410-206485-1

Method Summary

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Job ID: 410-206485-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260D/UST	Volatile Organic Compounds by GC/MS	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
8050B	Preparation, Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

3

4

5

_

10

11

12

4 /

Sample Summary

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Job ID: 410-206485-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-206485-1	PE-1	Solid	02/04/25 08:15	02/04/25 18:38
410-206485-2	PE-2	Solid	02/04/25 08:25	02/04/25 18:38
410-206485-3	PE-3	Solid	02/04/25 08:30	02/04/25 18:38
410-206485-4	PE-4	Solid	02/04/25 08:35	02/04/25 18:38
410-206485-5	PE-5	Solid	02/04/25 08:40	02/04/25 18:38
410-206485-6	PE-6	Solid	02/04/25 08:45	02/04/25 18:38
410-206485-7	PE-7	Solid	02/04/25 08:50	02/04/25 18:38
410-206485-8	PE-8	Solid	02/04/25 08:55	02/04/25 18:38
410-206485-9	Trip Blank	Water	02/03/25 00:00	02/04/25 18:38



Temp: 0.0 On-site Time: Off-site Time: N/A - Sun Pipeline / Logistics Temp: 0.0 Sky Conditio Meteorologi State or Lead Regulatory Agency: PADEP - Southeast Region
Requested Due Date (mm/dd/yy): PAV-TAT-PADEP - Southeast Region Wind Speed: 0.0 Direction:

Sunoco DUNS #:

Region:

ab Name: Lancaster	Laboratories					Facility Addr Washington Crossing								Consultant/C GES, Inc.			
	Holland Pike								hington Crossin	-	PA			Addr 410 Ea	gleview Blvd, Si	ite 110	
adiebb.	. PA 17605					Site La			0.0	0.0)			Exton,	PA 19341		
b PM: Amek Ca						Sunoco PM Con Brad Fish							Consultant/Contractor 0225040-06-209				
	2308 x 1501/(717	7) 656-6766				Addres 100 Green Street							Consultant/C	ontractor Stepha	nie Grillo		
mail EDD To: No EQE	THE RESERVE AND ADDRESS OF THE PARTY OF THE						Marc	us Ho	ok, PA					Tele/Fax:	(610) 458-1077x	3064 / (610)	458-2300
mail Report Tosgrillo@g	esonline.com, ges	sinbox@gesor	nline.com			Tele/F	610-2	12-69	72					Invoi ges-in	voices@gesonli	ne.com	
tate where samples were																	
				Sample Type	Matrix				Preservative		Reque	ested An	alysis				
eport Type & QC Level:		1	н		1 13	1											
Ite m Sample Des	cription	Time	Date	G - Grab C - Composite	Drinking Water	Laboratory No.	No. of Containers	MeOH/NAHSO4	None		EPA Method 8260D (PAUGL) - BTEX, MTBE, Cumene, Naphthalene, 12,4- TMB, 13,5-TMB, 1,2-Dichloroethane	Master	60208 -Lad		Sample Poin	t Lat/Long a	nd Comments
PF-I		0815	2/4/25	G	X X		SA	X	X		X	X	×			2 DAY TA	rie
1 PE-1 2 PE-2		0825	2/4/25	G	XX		5-92	X	X		X	×	X				
PE-3		0830	2/4/25	G	X		56		X		X	X	X		Stano	land	
4 05-4		0835	2/4/25	G	X		5/2	X	X		X	X	X				
1 PE-4			2/4/25	G	X		5 4		X		X	×	X				
FE-6		0845	2/4/25	G	X		5 45	X	X		X	X	X		ļ		
7 PE-7		0850	2/4/25	G	X		360		X		X	X	X				
8 8-39		0855	2/4/25	G	X		3 43		X		X	X	X				
9 Trip BI	ank		1213125	G	X		24	X	X		X						
0				G	X	<u></u>	4	X	X	$\sqcup \!\! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! $	X					7	
ampler's Name: Jasc	n Crone					R	elinqui	shed	By / Affiliation		Date		Time		By / Affiliation	Date	Time
Sampler's Compi GES, Inc						A	see.	1	عبو	2	-14125	16	20	Afaller	new GES	2425	1600
Shipment Date:						150	all ress	in	/GES		214/25	1.15	रउ४	1			
Shipment Metho Laborate	ory Courier						_			7			_		9	7/14/0	
hipment Tracki								_							17	2/4/2	18:38
Special Instruct 3-DAY	ملا سانه	Standa	rd TAT	-													
Custody Seals In Place Yes No					Temp B1	ank Yes	No		Cooler Temper	ture on l	Receipt OF/C						
									12 :	2.	1 0-6	7 12					

HA

Login Sample Receipt Checklist

Client: Groundwater & Environmental Services Inc Job Number: 410-206485-1

Login Number: 206485 List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1 Creator: Arroyo, Haley

WV)?

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required(=6C, not frozen).</td <td>True</td> <td></td>	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable, where thermal pres is required (=6C, not frozen).</td <td>N/A</td> <td></td>	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Stephanie R Grillo Groundwater & Environmental Services Inc 410 Eagleview Blvd., Suite 110 Exton, Pennsylvania 19341-2577

Generated 2/24/2025 10:28:59 AM

JOB DESCRIPTION

SPLP - Washington Crossing

JOB NUMBER

410-207370-1

Eurofins Lancaster Laboratories Environment Testing, LLC 2425 New Holland Pike Lancaster PA 17601



Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 2/24/2025 10:28:59 AM

Authorized for release by Amek Carter, Project Manager Loran.Carter@et.eurofinsus.com (717)556-7252

Page 2 of 32 2/24/2025

A

4

_

റ

1 N

11

15

14

Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
- · Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
- · Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Page 3 of 32

Amel Cartes

2/24/2025

Table of Contents

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Detection Summary	7
Client Sample Results	9
Surrogate Summary	18
QC Sample Results	19
QC Association Summary	23
Lab Chronicle	25
Certification Summary	28
Method Summary	29
Sample Summary	30
Chain of Custody	31
Receipt Checklists	32

6

5

7

9

10

12

4 /

Definitions/Glossary

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Job ID: 410-207370-1

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

Refer to Case Narrative for further detail cn

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier **Qualifier Description**

^2 Calibration Blank (ICB and/or CCB) is outside acceptance limits.

General Chemistry

Qualifier **Qualifier Description**

Laboratory is not accredited for this parameter.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.

₩ Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DΙ

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NFG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Lancaster Laboratories Environment Testing, LLC

Page 5 of 32

2/24/2025

Case Narrative

Client: Groundwater & Environmental Services Inc

Project: SPLP - Washington Crossing

Job ID: 410-207370-1 Eurofins Lancaster Laboratories Environment

Job Narrative 410-207370-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/11/2025 4:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.5°C and 1.3°C.

GC/MS VOA

Method 8260D: The following samples were diluted due to the nature of the sample matrix: PE-9 (410-207370-1), PE-10 (410-207370-2), PE-11 (410-207370-3), PE-12 (410-207370-4), PE-13 (410-207370-5), PE-14 (410-207370-6), PE-15 (410-207370-7) and PE-16 (410-207370-8). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Lancaster Laboratories Environment Testing, LLC

Page 6 of 32 2/24/2025

2

Job ID: 410-207370-1

3

_

5

7

_

10

4.0

13

14

Client: Groundwater & Environmental Services Inc Project/Site: SPLP - Washington Crossing Job ID: 410-207370-1

Lab Sample ID: 410-207370-2

Lab Sample ID: 410-207370-3

Lab Sample ID: 410-207370-4

Lab Sample ID: 410-207370-5

Lab Sample ID: 410-207370-6

Lab Sample ID: 410-207370-7

Client Sample ID: PE-9 Lab Sample ID: 410-207370-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	410	J cn	3200	260	ug/Kg	500	₽	8260D	Total/NA
1,3,5-Trimethylbenzene	2400	J cn	3200	320	ug/Kg	500	₽	8260D	Total/NA
Xylenes, Total	7800	cn	3200	910	ug/Kg	500	₽	8260D	Total/NA
1,2,4-Trimethylbenzene	4700	cn	3200	390	ug/Kg	500	₽	8260D	Total/NA
Lead	19	^2	0.21	0.079	mg/Kg	2	₽	6020B	Total/NA

Client Sample ID: PE-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	520	J cn	2900	230	ug/Kg	500	₽	8260D	Total/NA
1,3,5-Trimethylbenzene	3100	cn	2900	290	ug/Kg	500	₽	8260D	Total/NA
Toluene	500	J cn	2900	350	ug/Kg	500	₽	8260D	Total/NA
Xylenes, Total	8900	cn	2900	810	ug/Kg	500	₽	8260D	Total/NA
1,2,4-Trimethylbenzene	5700	cn	2900	350	ug/Kg	500	₽	8260D	Total/NA
Lead	20	^2	0.22	0.085	mg/Kg	2	₽	6020B	Total/NA

Client Sample ID: PE-11

Analy	/te	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethyll	benzene	390	J cn	3300	260	ug/Kg	500	₩	8260D	Total/NA
1,3,5-	-Trimethylbenzene	4800	cn	3300	330	ug/Kg	500	₽	8260D	Total/NA
Xylen	nes, Total	11000	cn	3300	910	ug/Kg	500	₽	8260D	Total/NA
1,2,4-	-Trimethylbenzene	8200	cn	3300	390	ug/Kg	500	₩	8260D	Total/NA
Lead		21	^2	0.21	0.082	mg/Kg	2	₩	6020B	Total/NA

Client Sample ID: PE-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	1600	J cn	3100	310	ug/Kg	500	₩	8260D	Total/NA
Xylenes, Total	4600	cn	3100	860	ug/Kg	500	₽	8260D	Total/NA
1,2,4-Trimethylbenzene	3200	cn	3100	370	ug/Kg	500	₩	8260D	Total/NA
Lead	19	^2	0.22	0.083	mg/Kg	2	₽	6020B	Total/NA

Client Sample ID: PE-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	780	J cn	3400	340	ug/Kg	500	₩	8260D	Total/NA
1,2,4-Trimethylbenzene	1500	J cn	3400	410	ug/Kg	500	₩	8260D	Total/NA
Lead	21	^2	0.23	0.088	mg/Kg	2	₽	6020B	Total/NA

Client Sample ID: PE-14

 Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	750	J cn	3400	270	ug/Kg	500	₩	8260D	Total/NA
1,3,5-Trimethylbenzene	6200	cn	3400	340	ug/Kg	500	₩	8260D	Total/NA
Toluene	1300	J cn	3400	410	ug/Kg	500	₽	8260D	Total/NA
Xylenes, Total	14000	cn	3400	950	ug/Kg	500	₩	8260D	Total/NA
1,2,4-Trimethylbenzene	7400	cn	3400	410	ug/Kg	500	₽	8260D	Total/NA
Lead	24	^2	0.19	0.073	mg/Kg	2	₽	6020B	Total/NA

Client Sample ID: PE-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	1100	J cn	3500	350	ug/Kg	500	₩	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

2

4

5

7

9

10

12

14

Detection Summary

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Lab Sample ID: 410-207370-7

Job ID: 410-207370-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2300	J cn	3500	420	ug/Kg	500	₽	8260D	Total/NA
Lead	20	^2	0.17	0.063	mg/Kg	2	₩	6020B	Total/NA

Client Sample ID: PE-16 Lab Sample ID: 410-207370-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	2400	J cn	3400	340	ug/Kg	500	₩	8260D	Total/NA
Xylenes, Total	3000	J cn	3400	950	ug/Kg	500	₽	8260D	Total/NA
1,2,4-Trimethylbenzene	3700	cn	3400	410	ug/Kg	500	₽	8260D	Total/NA
Lead	20	^2	0.21	0.080	mg/Kg	2	₩	6020B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-207370-9

No Detections.

12

14

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Lab Sample ID: 410-207370-1

Matrix: Solid

Percent Solids: 86.4

Job ID: 410-207370-1

Client	Sampl	le ID:	PE-9
--------	-------	--------	------

Date Collected: 02/11/25 09:45 Date Received: 02/11/25 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	410	J cn	3200	260	ug/Kg		02/17/25 14:20	02/21/25 05:49	500
1,2-Dichloroethane	ND	cn	3200	390	ug/Kg	₽	02/17/25 14:20	02/21/25 05:49	500
1,3,5-Trimethylbenzene	2400	J cn	3200	320	ug/Kg	₽	02/17/25 14:20	02/21/25 05:49	500
Toluene	ND	cn	3200	390	ug/Kg	₽	02/17/25 14:20	02/21/25 05:49	500
Xylenes, Total	7800	cn	3200	910	ug/Kg	₽	02/17/25 14:20	02/21/25 05:49	500
Methyl tertiary butyl ether	ND	cn	3200	390	ug/Kg	₽	02/17/25 14:20	02/21/25 05:49	500
Benzene	ND	cn	3200	320	ug/Kg	₽	02/17/25 14:20	02/21/25 05:49	500
Naphthalene	ND	cn	3200	1300	ug/Kg	₽	02/17/25 14:20	02/21/25 05:49	500
1,2,4-Trimethylbenzene	4700	cn	3200	390	ug/Kg	₽	02/17/25 14:20	02/21/25 05:49	500
Isopropylbenzene	ND	cn	3200	390	ug/Kg	₽	02/17/25 14:20	02/21/25 05:49	500
1,2-Dibromoethane	ND	cn	3200	390	ug/Kg	₽	02/17/25 14:20	02/21/25 05:49	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	74	cn	54 - 135				02/17/25 14:20	02/21/25 05:49	500
4-Bromofluorobenzene (Surr)	70	cn	50 - 131				02/17/25 14:20	02/21/25 05:49	500
Dibromofluoromethane (Surr)	76	cn	50 - 141				02/17/25 14:20	02/21/25 05:49	500
Toluene-d8 (Surr)	67	cn	52 - 141				02/17/25 14:20	02/21/25 05:49	500
Method: SW846 6020B - Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lead	19	^2	0.21	0.079	mg/Kg	*	02/19/25 02:11	02/19/25 19:11	
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Percent Moisture (EPA Moisture)	13.6		1.0	1.0	%			02/13/25 06:42	

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Lab Sample ID: 410-207370-2

Matrix: Solid

Percent Solids: 87.2

Job ID: 410-207370-1

Client	Sample	ID: PE-10
--------	--------	-----------

Date Collected: 02/11/25 09:50 Date Received: 02/11/25 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Ethylbenzene	520	J cn	2900	230	ug/Kg	<u></u>	02/17/25 14:20	02/21/25 06:11	50
1,2-Dichloroethane	ND	cn	2900	350	ug/Kg	₽	02/17/25 14:20	02/21/25 06:11	50
1,3,5-Trimethylbenzene	3100	cn	2900	290	ug/Kg	₩	02/17/25 14:20	02/21/25 06:11	50
Toluene	500	J cn	2900	350	ug/Kg	₽	02/17/25 14:20	02/21/25 06:11	50
Xylenes, Total	8900	cn	2900	810	ug/Kg	₽	02/17/25 14:20	02/21/25 06:11	50
Methyl tertiary butyl ether	ND	cn	2900	350	ug/Kg	₽	02/17/25 14:20	02/21/25 06:11	50
Benzene	ND	cn	2900	290	ug/Kg	₽	02/17/25 14:20	02/21/25 06:11	50
Naphthalene	ND	cn	2900	1200	ug/Kg	₽	02/17/25 14:20	02/21/25 06:11	50
1,2,4-Trimethylbenzene	5700	cn	2900	350	ug/Kg	₩	02/17/25 14:20	02/21/25 06:11	50
Isopropylbenzene	ND	cn	2900	350	ug/Kg	₩	02/17/25 14:20	02/21/25 06:11	50
1,2-Dibromoethane	ND	cn	2900	350	ug/Kg	\$	02/17/25 14:20	02/21/25 06:11	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	71	cn	54 - 135				02/17/25 14:20	02/21/25 06:11	50
4-Bromofluorobenzene (Surr)	69	cn	50 - 131				02/17/25 14:20	02/21/25 06:11	50
Dibromofluoromethane (Surr)	73	cn	50 - 141				02/17/25 14:20	02/21/25 06:11	50
Toluene-d8 (Surr)	71	cn	52 - 141				02/17/25 14:20	02/21/25 06:11	50
- Method: SW846 6020B - Metals ((ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lead	20	^2	0.22	0.085	mg/Kg	*	02/19/25 02:11	02/19/25 19:39	
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Percent Moisture (EPA Moisture)	12.8		1.0	1.0	%			02/13/25 06:42	

2/24/2025

3

5

9

11

12

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Lab Sample ID: 410-207370-3

Matrix: Solid

Percent Solids: 86.3

Job ID: 410-207370-1

Date Collected: 02/11/25 09:55 Date Received: 02/11/25 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	390	J cn	3300	260	ug/Kg	☼	02/17/25 14:20	02/21/25 06:33	500
1,2-Dichloroethane	ND	cn	3300	390	ug/Kg	₩	02/17/25 14:20	02/21/25 06:33	500
1,3,5-Trimethylbenzene	4800	cn	3300	330	ug/Kg	₽	02/17/25 14:20	02/21/25 06:33	500
Toluene	ND	cn	3300	390	ug/Kg	₩	02/17/25 14:20	02/21/25 06:33	500
Xylenes, Total	11000	cn	3300	910	ug/Kg	₽	02/17/25 14:20	02/21/25 06:33	500
Methyl tertiary butyl ether	ND	cn	3300	390	ug/Kg	☼	02/17/25 14:20	02/21/25 06:33	500
Benzene	ND	cn	3300	330	ug/Kg	☼	02/17/25 14:20	02/21/25 06:33	500
Naphthalene	ND	cn	3300	1300	ug/Kg	☼	02/17/25 14:20	02/21/25 06:33	500
1,2,4-Trimethylbenzene	8200	cn	3300	390	ug/Kg	₩	02/17/25 14:20	02/21/25 06:33	500
Isopropylbenzene	ND	cn	3300	390	ug/Kg	₩	02/17/25 14:20	02/21/25 06:33	500
1,2-Dibromoethane	ND	cn	3300	390	ug/Kg	₽	02/17/25 14:20	02/21/25 06:33	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	64	cn	54 - 135				02/17/25 14:20	02/21/25 06:33	500
4-Bromofluorobenzene (Surr)	72	cn	50 - 131				02/17/25 14:20	02/21/25 06:33	500
Dibromofluoromethane (Surr)	78	cn	50 - 141				02/17/25 14:20	02/21/25 06:33	500
Toluene-d8 (Surr)	75	cn	52 - 141				02/17/25 14:20	02/21/25 06:33	500
Method: SW846 6020B - Metals ((ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21	^2	0.21	0.082	mg/Kg	*	02/19/25 02:11	02/19/25 19:15	2
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.7	!	1.0	1.0	%			02/13/25 06:42	1

3

2

9

10

12

1 A

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Client Sample ID: PE-12 Lab Sample ID: 410-207370-4

Date Collected: 02/11/25 10:00 Matrix: Solid Date Received: 02/11/25 16:50 Percent Solids: 87.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND	cn	3100	250	ug/Kg		02/17/25 14:20	02/21/25 06:55	500
1,2-Dichloroethane	ND	cn	3100	370	ug/Kg	₽	02/17/25 14:20	02/21/25 06:55	500
1,3,5-Trimethylbenzene	1600	J cn	3100	310	ug/Kg	₩	02/17/25 14:20	02/21/25 06:55	500
Toluene	ND	cn	3100	370	ug/Kg	₽	02/17/25 14:20	02/21/25 06:55	500
Xylenes, Total	4600	cn	3100	860	ug/Kg	₽	02/17/25 14:20	02/21/25 06:55	500
Methyl tertiary butyl ether	ND	cn	3100	370	ug/Kg	₽	02/17/25 14:20	02/21/25 06:55	500
Benzene	ND	cn	3100	310	ug/Kg	₽	02/17/25 14:20	02/21/25 06:55	500
Naphthalene	ND	cn	3100	1200	ug/Kg	₽	02/17/25 14:20	02/21/25 06:55	500
1,2,4-Trimethylbenzene	3200	cn	3100	370	ug/Kg	₽	02/17/25 14:20	02/21/25 06:55	500
Isopropylbenzene	ND	cn	3100	370	ug/Kg	₽	02/17/25 14:20	02/21/25 06:55	500
1,2-Dibromoethane	ND	cn	3100	370	ug/Kg	₽	02/17/25 14:20	02/21/25 06:55	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	75	cn	54 - 135				02/17/25 14:20	02/21/25 06:55	50
4-Bromofluorobenzene (Surr)	78	cn	50 - 131				02/17/25 14:20	02/21/25 06:55	50
Dibromofluoromethane (Surr)	76	cn	50 - 141				02/17/25 14:20	02/21/25 06:55	50
Toluene-d8 (Surr)	73	cn	52 - 141				02/17/25 14:20	02/21/25 06:55	50
Method: SW846 6020B - Metals ((ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lead	19	^2	0.22	0.083	mg/Kg	*	02/19/25 02:11	02/19/25 19:07	
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Percent Moisture (EPA Moisture)	12.9		1.0	1.0	%			02/13/25 06:42	

Job ID: 410-207370-1

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Lab Sample ID: 410-207370-5

02/13/25 06:42

Matrix: Solid

Percent Solids: 85.3

Job ID: 410-207370-1

Client	Sample	ID: PE-13
--------	--------	-----------

Date Collected: 02/11/25 10:05 Date Received: 02/11/25 16:50

Percent Moisture (EPA Moisture)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND	cn	3400	270	ug/Kg	<u></u>	02/17/25 14:20	02/21/25 07:17	500
1,2-Dichloroethane	ND	cn	3400	410	ug/Kg	₽	02/17/25 14:20	02/21/25 07:17	500
1,3,5-Trimethylbenzene	780	J cn	3400	340	ug/Kg	₽	02/17/25 14:20	02/21/25 07:17	500
Toluene	ND	cn	3400	410	ug/Kg	₽	02/17/25 14:20	02/21/25 07:17	500
Xylenes, Total	ND	cn	3400	960	ug/Kg	₽	02/17/25 14:20	02/21/25 07:17	500
Methyl tertiary butyl ether	ND	cn	3400	410	ug/Kg	₽	02/17/25 14:20	02/21/25 07:17	500
Benzene	ND	cn	3400	340	ug/Kg	₽	02/17/25 14:20	02/21/25 07:17	500
Naphthalene	ND	cn	3400	1400	ug/Kg	₩	02/17/25 14:20	02/21/25 07:17	500
1,2,4-Trimethylbenzene	1500	J cn	3400	410	ug/Kg	₽	02/17/25 14:20	02/21/25 07:17	500
Isopropylbenzene	ND	cn	3400	410	ug/Kg	₩	02/17/25 14:20	02/21/25 07:17	500
1,2-Dibromoethane	ND	cn	3400	410	ug/Kg	₽	02/17/25 14:20	02/21/25 07:17	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	69	cn	54 - 135				02/17/25 14:20	02/21/25 07:17	500
4-Bromofluorobenzene (Surr)	68	cn	50 - 131				02/17/25 14:20	02/21/25 07:17	500
Dibromofluoromethane (Surr)	74	cn	50 - 141				02/17/25 14:20	02/21/25 07:17	500
Toluene-d8 (Surr)	67	cn	52 - 141				02/17/25 14:20	02/21/25 07:17	500
Method: SW846 6020B - Metal	s (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21	^2	0.23	0.088	mg/Kg	*	02/19/25 02:11	02/19/25 19:35	2
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

1.0

1.0 %

14.7 !

3

5

9

10

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Lab Sample ID: 410-207370-6

Matrix: Solid

Percent Solids: 81.8

Job ID: 410-207370-1

Client	Samp	le ID:	PE-14
--------	------	--------	-------

Date Collected: 02/11/25 10:10 Date Received: 02/11/25 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	750	J cn	3400	270	ug/Kg	<u></u>	02/17/25 14:20	02/21/25 07:39	500
1,2-Dichloroethane	ND	cn	3400	410	ug/Kg	₽	02/17/25 14:20	02/21/25 07:39	500
1,3,5-Trimethylbenzene	6200	cn	3400	340	ug/Kg	₽	02/17/25 14:20	02/21/25 07:39	500
Toluene	1300	J cn	3400	410	ug/Kg	₽	02/17/25 14:20	02/21/25 07:39	500
Xylenes, Total	14000	cn	3400	950	ug/Kg	₽	02/17/25 14:20	02/21/25 07:39	500
Methyl tertiary butyl ether	ND	cn	3400	410	ug/Kg	₽	02/17/25 14:20	02/21/25 07:39	500
Benzene	ND	cn	3400	340	ug/Kg	₽	02/17/25 14:20	02/21/25 07:39	500
Naphthalene	ND	cn	3400	1400	ug/Kg	₽	02/17/25 14:20	02/21/25 07:39	500
1,2,4-Trimethylbenzene	7400	cn	3400	410	ug/Kg	₽	02/17/25 14:20	02/21/25 07:39	500
Isopropylbenzene	ND	cn	3400	410	ug/Kg	₽	02/17/25 14:20	02/21/25 07:39	500
1,2-Dibromoethane	ND	cn	3400	410	ug/Kg	₽	02/17/25 14:20	02/21/25 07:39	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	77	cn	54 - 135				02/17/25 14:20	02/21/25 07:39	500
4-Bromofluorobenzene (Surr)	78	cn	50 - 131				02/17/25 14:20	02/21/25 07:39	50
Dibromofluoromethane (Surr)	84	cn	50 - 141				02/17/25 14:20	02/21/25 07:39	500
Toluene-d8 (Surr)	81	cn	52 - 141				02/17/25 14:20	02/21/25 07:39	500
Method: SW846 6020B - Metals	(ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lead	24	^2	0.19	0.073	mg/Kg	*	02/19/25 02:11	02/19/25 19:31	
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Percent Moisture (EPA Moisture)	18.2		1.0	1.0	%			02/13/25 06:42	

3

6

9

10

12

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Lab Sample ID: 410-207370-7

Matrix: Solid

Percent Solids: 84.4

Job ID: 410-207370-1

CI	ient	Samp	le ID:	PE-15

Date Collected: 02/11/25 10:15 Date Received: 02/11/25 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND	cn	3500	280	ug/Kg		02/17/25 14:20	02/21/25 08:01	500
1,2-Dichloroethane	ND	cn	3500	420	ug/Kg	₽	02/17/25 14:20	02/21/25 08:01	500
1,3,5-Trimethylbenzene	1100	J cn	3500	350	ug/Kg	₽	02/17/25 14:20	02/21/25 08:01	500
Toluene	ND	cn	3500	420	ug/Kg	₽	02/17/25 14:20	02/21/25 08:01	500
Xylenes, Total	ND	cn	3500	980	ug/Kg	₽	02/17/25 14:20	02/21/25 08:01	500
Methyl tertiary butyl ether	ND	cn	3500	420	ug/Kg	₽	02/17/25 14:20	02/21/25 08:01	500
Benzene	ND	cn	3500	350	ug/Kg	₽	02/17/25 14:20	02/21/25 08:01	500
Naphthalene	ND	cn	3500	1400	ug/Kg	₽	02/17/25 14:20	02/21/25 08:01	500
1,2,4-Trimethylbenzene	2300	J cn	3500	420	ug/Kg	₽	02/17/25 14:20	02/21/25 08:01	500
Isopropylbenzene	ND	cn	3500	420	ug/Kg	₽	02/17/25 14:20	02/21/25 08:01	500
1,2-Dibromoethane	ND	cn	3500	420	ug/Kg	₽	02/17/25 14:20	02/21/25 08:01	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75	cn	54 - 135				02/17/25 14:20	02/21/25 08:01	500
4-Bromofluorobenzene (Surr)	76	cn	50 - 131				02/17/25 14:20	02/21/25 08:01	500
Dibromofluoromethane (Surr)	77	cn	50 - 141				02/17/25 14:20	02/21/25 08:01	500
Toluene-d8 (Surr)	68	cn	52 - 141				02/17/25 14:20	02/21/25 08:01	500
Method: SW846 6020B - Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	20	^2	0.17	0.063	mg/Kg	*	02/19/25 02:11	02/19/25 19:56	2
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.6	!	1.0	1.0	%			02/13/25 06:42	1

Eurofins Lancaster Laboratories Environment Testing, LLC

3

5

9

11

12

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Client Sample ID: PE-16 Date Collected: 02/11/25 11:15 Lab Sample ID: 410-207370-8

Matrix: Solid

Percent Solids: 81.7

Job ID: 410-207370-1

Date Received: 02/11/25 16:50			
Method: SW846 8260D - Volatile O	rganic Comp	ounds by GC	/MS
Analyte	Result	Qualifier	
Ethylbenzene	ND	cn	;
1.2-Dichloroethane	ND	cn	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	MD	cn	3400	270	ug/Kg		02/17/25 14:20	02/21/25 08:23	500
1,2-Dichloroethane	ND	cn	3400	410	ug/Kg	₽	02/17/25 14:20	02/21/25 08:23	500
1,3,5-Trimethylbenzene	2400	J cn	3400	340	ug/Kg	₽	02/17/25 14:20	02/21/25 08:23	500
Toluene	ND	cn	3400	410	ug/Kg	₽	02/17/25 14:20	02/21/25 08:23	500
Xylenes, Total	3000	J cn	3400	950	ug/Kg	₽	02/17/25 14:20	02/21/25 08:23	500
Methyl tertiary butyl ether	ND	cn	3400	410	ug/Kg	₽	02/17/25 14:20	02/21/25 08:23	500
Benzene	ND	cn	3400	340	ug/Kg	₽	02/17/25 14:20	02/21/25 08:23	500
Naphthalene	ND	cn	3400	1400	ug/Kg	₽	02/17/25 14:20	02/21/25 08:23	500
1,2,4-Trimethylbenzene	3700	cn	3400	410	ug/Kg	₽	02/17/25 14:20	02/21/25 08:23	500
Isopropylbenzene	ND	cn	3400	410	ug/Kg	₽	02/17/25 14:20	02/21/25 08:23	500
1,2-Dibromoethane	ND	cn	3400	410	ug/Kg	₽	02/17/25 14:20	02/21/25 08:23	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75	cn	54 - 135				02/17/25 14:20	02/21/25 08:23	500
4-Bromofluorobenzene (Surr)	72	cn	50 131				02/17/25 14:20	02/21/25 08:23	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75	cn	54 - 135	02/17/25 14:20	02/21/25 08:23	500
4-Bromofluorobenzene (Surr)	72	cn	50 - 131	02/17/25 14:20	02/21/25 08:23	500
Dibromofluoromethane (Surr)	79	cn	50 - 141	02/17/25 14:20	02/21/25 08:23	500
Toluene-d8 (Surr)	73	cn	52 - 141	02/17/25 14:20	02/21/25 08:23	500

Method: SW846 6020B - Metals (ICI	P/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	20	^2	0.21	0.080	mg/Kg	₽	02/19/25 02:11	02/19/25 19:27	2

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.3	!	1.0	1.0	%			02/13/25 06:42	1

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Lab Sample ID: 410-207370-9

Matrix: Water

Job ID: 410-207370-1

Client Sample ID: Trip Blank Date Collected: 02/06/25 00:00 Date Received: 02/11/25 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			02/19/25 14:06	1
Ethylbenzene	ND		1.0	0.40	ug/L			02/19/25 14:06	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			02/19/25 14:06	1
Toluene	ND		1.0	0.30	ug/L			02/19/25 14:06	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			02/19/25 14:06	1
Xylenes, Total	ND		6.0	0.40	ug/L			02/19/25 14:06	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			02/19/25 14:06	1
Benzene	ND		1.0	0.30	ug/L			02/19/25 14:06	1
Naphthalene	ND		5.0	1.0	ug/L			02/19/25 14:06	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			02/19/25 14:06	1
Isopropylbenzene	ND		5.0	0.30	ug/L			02/19/25 14:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120			_		02/19/25 14:06	1
4-Bromofluorobenzene (Surr)	92		80 - 120					02/19/25 14:06	1
Dibromofluoromethane (Surr)	109		80 - 120					02/19/25 14:06	1
Toluene-d8 (Surr)	97		80 - 120					02/19/25 14:06	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Surrogate Summary

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Job ID: 410-207370-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid Prep Type: Total/NA

				Percent Sui	rrogate Rec
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-207370-1	PE-9	74 cn	70 cn	76 cn	67 cn
410-207370-2	PE-10	71 cn	69 cn	73 cn	71 cn
410-207370-3	PE-11	64 cn	72 cn	78 cn	75 cn
410-207370-4	PE-12	75 cn	78 cn	76 cn	73 cn
410-207370-5	PE-13	69 cn	68 cn	74 cn	67 cn
410-207370-6	PE-14	77 cn	78 cn	84 cn	81 cn
410-207370-7	PE-15	75 cn	76 cn	77 cn	68 cn
410-207370-8	PE-16	75 cn	72 cn	79 cn	73 cn
LCS 410-608548/6	Lab Control Sample	89	85	97	87
LCSD 410-608548/8	Lab Control Sample Dup	89	83	96	88
MB 410-608548/7	Method Blank	94	87	99	90

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260D/UST - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Rec
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-207370-9	Trip Blank	100	92	109	97
LCS 410-607669/5	Lab Control Sample	101	95	106	97
LCSD 410-607669/6	Lab Control Sample Dup	101	94	106	96
MB 410-607669/7	Method Blank	99	93	106	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Eurofins Lancaster Laboratories Environment Testing, LLC

Page 18 of 32

Job ID: 410-207370-1

Client: Groundwater & Environmental Services Inc Project/Site: SPLP - Washington Crossing

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-608548/7

Matrix: Solid

Analysis Batch: 608548

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			02/20/25 23:56	50
1,2-Dichloroethane	ND		250	30	ug/Kg			02/20/25 23:56	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			02/20/25 23:56	50
Toluene	ND		250	30	ug/Kg			02/20/25 23:56	50
Xylenes, Total	ND		250	70	ug/Kg			02/20/25 23:56	50
Methyl tertiary butyl ether	ND		250	30	ug/Kg			02/20/25 23:56	50
Benzene	ND		250	25	ug/Kg			02/20/25 23:56	50
Naphthalene	ND		250	100	ug/Kg			02/20/25 23:56	50
1,2,4-Trimethylbenzene	ND		250	30	ug/Kg			02/20/25 23:56	50
Isopropylbenzene	ND		250	30	ug/Kg			02/20/25 23:56	50
1,2-Dibromoethane	ND		250	30	ug/Kg			02/20/25 23:56	50

MB MB

Surrogate	%Recovery (Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94	54 - 135		02/20/25 23:56	50
4-Bromofluorobenzene (Surr)	87	50 - 131		02/20/25 23:56	50
Dibromofluoromethane (Surr)	99	50 - 141		02/20/25 23:56	50
Toluene-d8 (Surr)	90	52 - 141		02/20/25 23:56	50

Lab Sample ID: LCS 410-608548/6

Matrix: Solid

Analysis Batch: 608548

Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	1000	980	-	ug/Kg		98	72 - 118	
1,2-Dichloroethane	1000	1120		ug/Kg		112	72 - 124	
1,3,5-Trimethylbenzene	1000	929		ug/Kg		93	73 - 120	
Toluene	1000	983		ug/Kg		98	71 - 120	
Xylenes, Total	3000	2870		ug/Kg		96	75 - 120	
Methyl tertiary butyl ether	1000	1010		ug/Kg		101	63 - 120	
Benzene	1000	1010		ug/Kg		101	80 - 120	
Naphthalene	1000	822		ug/Kg		82	68 - 130	
1,2,4-Trimethylbenzene	1000	901		ug/Kg		90	68 - 120	
Isopropylbenzene	1000	1090		ug/Kg		109	77 - 120	
1,2-Dibromoethane	1000	984		ug/Kg		98	76 - 120	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		<u>54 - 135</u>
4-Bromofluorobenzene (Surr)	85		50 - 131
Dibromofluoromethane (Surr)	97		50 - 141
Toluene-d8 (Surr)	87		52 - 141

Lab Sample ID: LCSD 410-608548/8

Matrix: Solid

Analysis Batch: 608548

Client Sample II	ጋ: Lab	Control	Samp	le Dup
		Prep Ty	pe: To	tal/NA

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Ethylbenzene	1000	951		ug/Kg		95	72 - 118	3	30	
1,2-Dichloroethane	1000	1080		ug/Kg		108	72 - 124	4	30	

Eurofins Lancaster Laboratories Environment Testing, LLC

Page 19 of 32 2/24/2025

Client: Groundwater & Environmental Services Inc Job ID: 410-207370-1

Project/Site: SPLP - Washington Crossing

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

Lab Sample ID: LCSD 410-608548/8

Matrix: Solid

Analysis Batch: 608548

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

%Rec RPD

	Бріке	FC2D	LCSD				%Rec		KPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,3,5-Trimethylbenzene	1000	896		ug/Kg		90	73 - 120	4	30
Toluene	1000	997		ug/Kg		100	71 - 120	1	30
Xylenes, Total	3000	2860		ug/Kg		95	75 - 120	0	30
Methyl tertiary butyl ether	1000	1010		ug/Kg		101	63 - 120	1	30
Benzene	1000	995		ug/Kg		99	80 - 120	2	30
Naphthalene	1000	807		ug/Kg		81	68 - 130	2	30
1,2,4-Trimethylbenzene	1000	876		ug/Kg		88	68 - 120	3	30
Isopropylbenzene	1000	1070		ug/Kg		107	77 - 120	1	30
1,2-Dibromoethane	1000	950		ug/Kg		95	76 - 120	3	30

52 - 141

 Surrogate
 %Recovery
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 89
 54 - 135

 4-Bromofluorobenzene (Surr)
 83
 50 - 131

 Dibromofluoromethane (Surr)
 96
 50 - 141

Method: 8260D/UST - Volatile Organic Compounds by GC/MS

88

Lab Sample ID: MB 410-607669/7

Matrix: Water

Toluene-d8 (Surr)

Analysis Batch: 607669

Client Sample ID: Method Blank Prep Type: Total/NA

MR MR Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,2-Dibromoethane ND 1.0 0.30 ug/L 02/19/25 12:55 ND 02/19/25 12:55 Ethylbenzene 1.0 0.40 ug/L 02/19/25 12:55 1,2-Dichloroethane ND 1.0 0.30 ug/L Toluene ND 1.0 0.30 ug/L 02/19/25 12:55 1,3,5-Trimethylbenzene ND 5.0 0.30 ug/L 02/19/25 12:55 02/19/25 12:55 Xylenes, Total ND 6.0 0.40 ug/L 0.20 ug/L Methyl tertiary butyl ether ND 1.0 02/19/25 12:55 ND Benzene 1.0 0.30 ug/L 02/19/25 12:55 Naphthalene ND 5.0 1.0 ug/L 02/19/25 12:55 1,2,4-Trimethylbenzene ND 5.0 02/19/25 12:55 1.0 ug/L Isopropylbenzene ND 5.0 0.30 ug/L 02/19/25 12:55

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	99		80 - 120	_		02/19/25 12:55	1	
4-Bromofluorobenzene (Surr)	93		80 - 120			02/19/25 12:55	1	
Dibromofluoromethane (Surr)	106		80 - 120			02/19/25 12:55	1	
Toluene-d8 (Surr)	97		80 - 120			02/19/25 12:55	1	

Lab Sample ID: LCS 410-607669/5

Matrix: Water

Analysis Batch: 607669

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,2-Dibromoethane	20.0	18.7		ug/L		94	77 - 120	
Ethylbenzene	20.0	20.7		ug/L		103	80 - 120	

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample ID: Lab Control Sample

Page 20 of 32

2

3

4

6

8

10

12

119

Prep Type: Total/NA

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Method: 8260D/UST - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-607669/5

Matrix: Water

Analysis Batch: 607669

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Job ID: 410-207370-1

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,2-Dichloroethane 20.0 20.7 104 73 - 124 ug/L Toluene 20.0 20.7 ug/L 103 80 - 120 20.0 1,3,5-Trimethylbenzene 19.6 ug/L 98 75 - 120 Xylenes, Total 60.0 64.5 ug/L 108 80 - 120 69 - 122 Methyl tertiary butyl ether 20.0 20.5 102 ug/L Benzene 20.0 20.8 ug/L 104 80 - 120 Naphthalene 20.0 16.5 ug/L 83 53 - 124 1,2,4-Trimethylbenzene 20.0 19.7 ug/L 99 75 - 120 Isopropylbenzene 20.0 21.5 ug/L 107 80 - 120

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	106		80 - 120
Toluene-d8 (Surr)	97		80 - 120

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 607669

Lab Sample ID: LCSD 410-607669/6

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,2-Dibromoethane	20.0	18.7		ug/L		94	77 - 120	0	30
Ethylbenzene	20.0	20.9		ug/L		105	80 - 120	1	30
1,2-Dichloroethane	20.0	20.7		ug/L		103	73 - 124	0	30
Toluene	20.0	20.7		ug/L		104	80 - 120	0	30
1,3,5-Trimethylbenzene	20.0	19.9		ug/L		99	75 - 120	2	30
Xylenes, Total	60.0	64.8		ug/L		108	80 - 120	0	30
Methyl tertiary butyl ether	20.0	20.7		ug/L		104	69 - 122	1	30
Benzene	20.0	21.4		ug/L		107	80 - 120	3	30
Naphthalene	20.0	16.5		ug/L		83	53 - 124	0	30
1,2,4-Trimethylbenzene	20.0	20.0		ug/L		100	75 - 120	1	30
Isopropylbenzene	20.0	21.8		ug/L		109	80 - 120	2	30

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	106		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-606435/1-A ^2

Matrix: Solid

Analysis Batch: 608022

Client Sample ID: Method Blank
Prep Type: Total/NA

Prep Batch: 606435

	INID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.20	0.076	mg/Kg		02/19/25 02:11	02/19/25 17:29	2

Eurofins Lancaster Laboratories Environment Testing, LLC

Page 21 of 32

2/24/2025

QC Sample Results

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Job ID: 410-207370-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-606435/2-A ^2

Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 608022

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 606435

 Analyte
 LCS | LCS |
 Kec

 Lead
 Result | Qualifier | Unit | mg/Kg |
 D | %Rec | Limits |

 Lead
 5.00
 5.38 | mg/Kg |
 108 | 88 - 117 |

3

А

4

6

8

10

11

13

14

QC Association Summary

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Job ID: 410-207370-1

GC/MS VOA

Prep Batch: 606812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-207370-1	PE-9	Total/NA	Solid	5035	
410-207370-2	PE-10	Total/NA	Solid	5035	
410-207370-3	PE-11	Total/NA	Solid	5035	
410-207370-4	PE-12	Total/NA	Solid	5035	
410-207370-5	PE-13	Total/NA	Solid	5035	
410-207370-6	PE-14	Total/NA	Solid	5035	
410-207370-7	PE-15	Total/NA	Solid	5035	
410-207370-8	PE-16	Total/NA	Solid	5035	

Analysis Batch: 607669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-207370-9	Trip Blank	Total/NA	Water	8260D/UST	
MB 410-607669/7	Method Blank	Total/NA	Water	8260D/UST	
LCS 410-607669/5	Lab Control Sample	Total/NA	Water	8260D/UST	
LCSD 410-607669/6	Lab Control Sample Dup	Total/NA	Water	8260D/UST	

Analysis Batch: 608548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-207370-1	PE-9	Total/NA	Solid	8260D	606812
410-207370-2	PE-10	Total/NA	Solid	8260D	606812
410-207370-3	PE-11	Total/NA	Solid	8260D	606812
410-207370-4	PE-12	Total/NA	Solid	8260D	606812
410-207370-5	PE-13	Total/NA	Solid	8260D	606812
410-207370-6	PE-14	Total/NA	Solid	8260D	606812
410-207370-7	PE-15	Total/NA	Solid	8260D	606812
410-207370-8	PE-16	Total/NA	Solid	8260D	606812
MB 410-608548/7	Method Blank	Total/NA	Solid	8260D	
LCS 410-608548/6	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 410-608548/8	Lab Control Sample Dup	Total/NA	Solid	8260D	

Metals

Prep Batch: 606435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-207370-1	PE-9	Total/NA	Solid	3050B	
410-207370-2	PE-10	Total/NA	Solid	3050B	
410-207370-3	PE-11	Total/NA	Solid	3050B	
410-207370-4	PE-12	Total/NA	Solid	3050B	
410-207370-5	PE-13	Total/NA	Solid	3050B	
410-207370-6	PE-14	Total/NA	Solid	3050B	
410-207370-7	PE-15	Total/NA	Solid	3050B	
410-207370-8	PE-16	Total/NA	Solid	3050B	
MB 410-606435/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-606435/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 608022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-207370-1	PE-9	Total/NA	Solid	6020B	606435
410-207370-2	PE-10	Total/NA	Solid	6020B	606435
410-207370-3	PE-11	Total/NA	Solid	6020B	606435
410-207370-4	PE-12	Total/NA	Solid	6020B	606435

Eurofins Lancaster Laboratories Environment Testing, LLC

4

6

9

10

12

QC Association Summary

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Job ID: 410-207370-1

Metals (Continued)

Analysis Batch: 608022 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-207370-5	PE-13	Total/NA	Solid	6020B	606435
410-207370-6	PE-14	Total/NA	Solid	6020B	606435
410-207370-7	PE-15	Total/NA	Solid	6020B	606435
410-207370-8	PE-16	Total/NA	Solid	6020B	606435
MB 410-606435/1-A ^2	Method Blank	Total/NA	Solid	6020B	606435
LCS 410-606435/2-A ^2	Lab Control Sample	Total/NA	Solid	6020B	606435

General Chemistry

Analysis Batch: 605529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-207370-1	PE-9	Total/NA	Solid	Moisture	
410-207370-2	PE-10	Total/NA	Solid	Moisture	
410-207370-3	PE-11	Total/NA	Solid	Moisture	
410-207370-4	PE-12	Total/NA	Solid	Moisture	
410-207370-5	PE-13	Total/NA	Solid	Moisture	
410-207370-6	PE-14	Total/NA	Solid	Moisture	
410-207370-7	PE-15	Total/NA	Solid	Moisture	
410-207370-8	PE-16	Total/NA	Solid	Moisture	

Client Sample ID: PE-9

Date Collected: 02/11/25 09:45 Date Received: 02/11/25 16:50

Lab Sample ID: 410-207370-1

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Percent Solids: 87.2

l		Batch	Batch		Dilution	Batch			Prepared
l	Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
l	Total/NA	Analysis	Moisture			605529	UGCW	ELLE	02/13/25 06:42

Client Sample ID: PE-9 Lab Sample ID: 410-207370-1

Date Collected: 02/11/25 09:45

Matrix: Solid Date Received: 02/11/25 16:50 Percent Solids: 86.4

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			606812	WJ7F	ELLE	02/17/25 14:20
Total/NA	Analysis	8260D		500	608548	S8BP	ELLE	02/21/25 05:49
Total/NA	Prep	3050B			606435	UJL8	ELLE	02/19/25 02:11
Total/NA	Analysis	6020B		2	608022	LHF4	ELLE	02/19/25 19:11

Client Sample ID: PE-10 Lab Sample ID: 410-207370-2

Date Collected: 02/11/25 09:50 Date Received: 02/11/25 16:50

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed

02/13/25 06:42 UGCW ELLE Total/NA Analysis Moisture 605529 Client Sample ID: PE-10 Lab Sample ID: 410-207370-2

Date Collected: 02/11/25 09:50 Date Received: 02/11/25 16:50

6020B

Batch Batch Dilution Batch Prepared Prep Type Method or Analyzed Type Run Factor Number Analyst Lab 02/17/25 14:20 Total/NA Prep 5035 606812 WJ7F ELLE 8260D 500 608548 S8BP ELLE 02/21/25 06:11 Total/NA Analysis Total/NA 3050B 606435 UJL8 ELLE 02/19/25 02:11 Prep

2 Client Sample ID: PE-11 Lab Sample ID: 410-207370-3

608022 LHF4

ELLE

Date Collected: 02/11/25 09:55 Date Received: 02/11/25 16:50

Analysis

Total/NA

Batch Batch Dilution Batch Prepared Method **Number Analyst** or Analyzed **Prep Type** Type Run Factor Lab 02/13/25 06:42

605529 UGCW ELLE Total/NA Analysis Moisture **Client Sample ID: PE-11** Lab Sample ID: 410-207370-3

Date Collected: 02/11/25 09:55 **Matrix: Solid** Date Received: 02/11/25 16:50 Percent Solids: 86.3

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			606812	WJ7F	ELLE	02/17/25 14:20
Total/NA	Analysis	8260D		500	608548	S8BP	ELLE	02/21/25 06:33
Total/NA	Prep	3050B			606435	UJL8	ELLE	02/19/25 02:11
Total/NA	Analysis	6020B		2	608022	LHF4	ELLE	02/19/25 19:15

02/19/25 19:39

Client: Groundwater & Environmental Services Inc Project/Site: SPLP - Washington Crossing

Client Sample ID: PE-12

Date Collected: 02/11/25 10:00 Date Received: 02/11/25 16:50

Lab Sample ID: 410-207370-4

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture		1	605529	UGCW	ELLE	02/13/25 06:42

Client Sample ID: PE-12 Lab Sample ID: 410-207370-4

Date Collected: 02/11/25 10:00 Date Received: 02/11/25 16:50

Matrix: Solid

Percent Solids: 87.1

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			606812	WJ7F	ELLE	02/17/25 14:20
Total/NA	Analysis	8260D		500	608548	S8BP	ELLE	02/21/25 06:55
Total/NA	Prep	3050B			606435	UJL8	ELLE	02/19/25 02:11
Total/NA	Analysis	6020B		2	608022	LHF4	ELLE	02/19/25 19:07

Client Sample ID: PE-13 Lab Sample ID: 410-207370-5

Date Collected: 02/11/25 10:05

Date Received: 02/11/25 16:50

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 02/13/25 06:42 UGCW ELLE Total/NA Analysis Moisture 605529

Client Sample ID: PE-13

Lab Sample ID: 410-207370-5

Matrix: Solid Percent Solids: 85.3

Date Collected: 02/11/25 10:05 Date Received: 02/11/25 16:50

Batch Batch Dilution Batch Prepared Prep Type Method or Analyzed Type Run Factor Number Analyst Lab 02/17/25 14:20 Total/NA Prep 5035 606812 WJ7F ELLE Total/NA 8260D 500 608548 S8BP ELLE 02/21/25 07:17 Analysis

Total/NA 3050B 606435 UJL8 ELLE 02/19/25 02:11 Prep Total/NA 6020B 2 608022 LHF4 **ELLE** 02/19/25 19:35 Analysis

Client Sample ID: PE-14

Date Collected: 02/11/25 10:10 Date Received: 02/11/25 16:50

Lab Sample ID: 410-207370-6

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture		1	605529	UGCW	ELLE	02/13/25 06:42

Client Sample ID: PE-14 Lab Sample ID: 410-207370-6

Date Collected: 02/11/25 10:10

Matrix: Solid Date Received: 02/11/25 16:50 Percent Solids: 81.8

Batch Batch Dilution Batch Prepared Method or Analyzed Prep Type Туре Run Factor Number Analyst Lab 02/17/25 14:20 5035 606812 WJ7F ELLE Total/NA Prep Total/NA Analysis 8260D 500 608548 S8BP **ELLE** 02/21/25 07:39 Total/NA 3050B 606435 UJL8 ELLE 02/19/25 02:11 Prep Total/NA Analysis 6020B 2 608022 LHF4 **ELLE** 02/19/25 19:31

Job ID: 410-207370-1

Project/Site: SPLP - Washington Crossing

Client: Groundwater & Environmental Services Inc

Client Sample ID: PE-15

Date Collected: 02/11/25 10:15 Date Received: 02/11/25 16:50

Lab Sample ID: 410-207370-7

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture		1	605529	UGCW	ELLE	02/13/25 06:42

Lab Sample ID: 410-207370-7 **Client Sample ID: PE-15**

Date Collected: 02/11/25 10:15 Date Received: 02/11/25 16:50

Matrix: Solid

Percent Solids: 84.4

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			606812	WJ7F	ELLE	02/17/25 14:20
Total/NA	Analysis	8260D		500	608548	S8BP	ELLE	02/21/25 08:01
Total/NA	Prep	3050B			606435	UJL8	ELLE	02/19/25 02:11
Total/NA	Analysis	6020B		2	608022	LHF4	ELLE	02/19/25 19:56

Client Sample ID: PE-16

Date Collected: 02/11/25 11:15

Date Received: 02/11/25 16:50

Lab Sample ID: 410-207370-8

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Type Method Run Factor Number Analyst Lab or Analyzed 02/13/25 06:42 605529 UGCW ELLE Total/NA Analysis Moisture

Client Sample ID: PE-16

Lab Sample ID: 410-207370-8

Matrix: Solid

Date Collected: 02/11/25 11:15 Date Received: 02/11/25 16:50

Percent Solids: 81.7

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			606812	WJ7F	ELLE	02/17/25 14:20
Total/NA	Analysis	8260D		500	608548	S8BP	ELLE	02/21/25 08:23
Total/NA	Prep	3050B			606435	UJL8	ELLE	02/19/25 02:11
Total/NA	Analysis	6020B		2	608022	LHF4	ELLE	02/19/25 19:27

Client Sample ID: Trip Blank

Lab Sample ID: 410-207370-9

Matrix: Water

Date Collected: 02/06/25 00:00 Date Received: 02/11/25 16:50

	Batch	Batch		Dilution	Batch		Prepared
Prep Type	Туре	Method	Run	Factor	Number Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D/UST			607669 P5AM	FLLE	02/19/25 14:06

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Job ID: 410-207370-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority Fennsylvania F		am	Identification Number	01-31-26	
)	36-00037		
The following analytes	are included in this report bu	t the laboratory is not certif	ied by the governing authority. This list	t may include analytes	
• •	•		iou by the governing dualerity. This has	conditional and	
for which the agency de	bes not offer certification.				
for which the agency do	Prep Method	Matrix	Analyte		

007070 4

3

4

5

7

9

11

16

14

Method Summary

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Job ID: 410-207370-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260D/UST	Volatile Organic Compounds by GC/MS	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

ID 440 007070 4

3

4

E

b

8

9

12

4 4

Sample Summary

Client: Groundwater & Environmental Services Inc

Project/Site: SPLP - Washington Crossing

Job ID: 410-207370-	1
---------------------	---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-207370-1	PE-9	Solid	02/11/25 09:45	02/11/25 16:50
410-207370-2	PE-10	Solid	02/11/25 09:50	02/11/25 16:50
410-207370-3	PE-11	Solid	02/11/25 09:55	02/11/25 16:50
410-207370-4	PE-12	Solid	02/11/25 10:00	02/11/25 16:50
410-207370-5	PE-13	Solid	02/11/25 10:05	02/11/25 16:50
410-207370-6	PE-14	Solid	02/11/25 10:10	02/11/25 16:50
410-207370-7	PE-15	Solid	02/11/25 10:15	02/11/25 16:50
410-207370-8	PE-16	Solid	02/11/25 11:15	02/11/25 16:50
410-207370-9	Trip Blank	Water	02/06/25 00:00	02/11/25 16:50

2

4

5

6

Ω

9

10

13

14



410-207370 Chain of Custody

Chain of Custody Record
Sunoco Pipeline LP
tegion:

tate or Lead Regulatory Agency: PADEP - Southeast Region

Requested Due Date (mm/dd/yy): STAYTAT STANGORD TAT

Page 1	of	
	Temp: 0.0	_
	Temp: 0.0	
0.0	Direction:	
		Temp: 0.0 Temp: 0.0

Lab Name:	Lancaster Laboratories								hington Cros						Cons	ultant/Cor	GES, Inc.		
Address:	2425 New Holland Pike					Facility City, Washington Crossing PA						Addr 410 Eagleview Blvd, Suite 110							
	Lancaster, PA 17605					Site La	t/Lon	g:	0.0		0.0				Exton, PA 19341				
Lab PM:	Amek Carter					Sunoco	PM (Con E	rad Fish						Cons	ultant/Con	tractor Pr 0225	040-06-209	
Tele/Fax:	(717) 656-2308 x 1501/(717) 656-6766				Addres	100 C	Green	Street						Cons	ultant/Con	tractor Pl Stepl	anie Grille	
E-mail EDD To:	No EQEDD needed						Marc	us H	ook, PA						Tele/	Fax:	(610) 458-107	7x3064 / (6	10) 458-2300
E-mail Report To	sgrillo@gesonline.com,	gesinbox@geso	online.com			Tele/Fa	610-2	112-6	972						Invoi	ges-invo	ices@gesonlin	ne.com	
State where san	ples were collected: PA; For C	ompliance: No																	
Report Type & C	OC Level:			Sample Type	Matrix				Preservative			Reque	equested Analysis						
Ite m Sample Description Time Soul No. Sumple Description Soul No.				Laboratory No.	No. of Containers	MeOH/NAHSO4	HMD3.4. Nov			EPA Method 8260 - BTEX, MTBE, Cumene, Naphthalene, 1,2,4- TMB, 1,3,5-TMB, 1,2-Dichloroethane	EPA Method 8011 - 1,2-Dibromoethane	EPA Method 6020 - Lead (Dissolved)	Moisture		Sample Po	int Lat/Lor	g and Comments		
	PE-9	0945	2/11/28	G	X		5	X	X			X	X	X	Y				
2	PE-10	0950	2/11/25	G	x		5	X	X			X	X	X	X				
3	PE-11	0955	2/11/25	G	X		5	X	X			X	X	X	X		STAWLAN	d TAT	
4	PE-12	1000	2/11/25	G.	X		5	X	X			X	X	X	K				
5	PF-13	1005	2/11/25	G	X		5	X	X			X	X	X	X				
6	PE 14	1010	2/11/25	G	X		5	X	X			X	X	X	X	•			
7	PE-15	1015	2/11/25	G	X		5	X	X			X	X	X	X_				
8	VE-16	1115	2/11/25		X		5	X	X	\Box		X	X	X	X				
9				G	X		5	X	X			X	X	X					
10	Trip Blank	7-	2/6/25						K			X							•
Sampler's Name	: Jason Crone	in the second se				Re	linqui	ished	By / Affiliation	n		Date	Tir		A	cepted B	y / Affiliation	Date	Time
Sampler's Comp	any: GES, Inc.					· Jan	1/	7~	ore		2	111/25	65	C					h /
Shipment Date:					/		0												
Shipment Metho							4									-			
Shipment Track							-	$\underline{\hspace{1cm}}$						'		1	m	4/1/2	16:50
Special Instruc	tions: Standard 1	AT														1			
Custody Seals In Place	Yes No	-			Temp Bla	nk Yes_	No		Cooler Temp	erature (on Re	occipt OF/C							

16

Cooler Temperature on Receipt OF/C

(CO · 6 - 1 · 4)

(CO · 5 - 1 · 3)

Page 31 of 32

2

3

6

ا

10

12

14

Login Sample Receipt Checklist

Client: Groundwater & Environmental Services Inc Job Number: 410-207370-1

Login Number: 207370 List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Kanagy, Nicholas

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required (=6C, not frozen).</td <td>True</td> <td></td>	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable, where thermal pres is required (=6C, not frozen).</td <td>N/A</td> <td></td>	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

3

4

၁ —

_

10

10

13



ANALYTICAL REPORT

Lab Number: L2538379

Client: Groundwater & Environmental Services, In

410 Eagleview Blvd Exton, PA 19341

ATTN: Stephanie Grillo Phone: (641) 458-1077

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Report Date: 07/14/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number: L2538379 **Report Date:** 07/14/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2538379-01	SS-1 @ 7'-8'	SOIL	E-25060-RL-25300050	06/17/25 10:55	06/18/25
L2538379-02	SS-2 @ 5'-6'	SOIL	E-25060-RL-25300050	06/17/25 10:25	06/18/25
L2538379-03	SS-3 @ 5'-6'	SOIL	E-25060-RL-25300050	06/17/25 10:00	06/18/25
L2538379-04	SS-4 @ 4'-5'	SOIL	E-25060-RL-25300050	06/17/25 10:40	06/18/25
L2538379-05	SS-5 @ 7'-7.5'	SOIL	E-25060-RL-25300050	06/17/25 11:45	06/18/25
L2538379-06	SS-6 @ 6'-6.5'	SOIL	E-25060-RL-25300050	06/17/25 12:10	06/18/25
L2538379-07	SS-7 @ 7'-8'	SOIL	E-25060-RL-25300050	06/17/25 12:30	06/18/25
L2538379-08	SS-8 @ 7'-8'	SOIL	E-25060-RL-25300050	06/17/25 13:10	06/18/25
L2538379-09	SS-9 @ 5'-6'	SOIL	E-25060-RL-25300050	06/17/25 13:30	06/18/25
L2538379-10	SS-10 @ 7'-8'	SOIL	E-25060-RL-25300050	06/17/25 13:00	06/18/25
L2538379-11	SS-11 @ 3'-4'	SOIL	E-25060-RL-25300050	06/17/25 13:40	06/18/25
L2538379-12	SS-12 @ 6'-7'	SOIL	E-25060-RL-25300050	06/17/25 13:55	06/18/25
L2538379-13	SS-13 @ 7'-8'	SOIL	E-25060-RL-25300050	06/17/25 11:55	06/18/25
L2538379-14	SS-14 @ 7'-8'	SOIL	E-25060-RL-25300050	06/17/25 12:45	06/18/25



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

Case Narrative (continued)

Report Submission

July 14, 2025: This final report includes the results of all requested analyses.

July 02, 2025: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2538379-05: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (314%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2538379-06: The surrogate recovery was outside the acceptance criteria for 4-bromofluorobenzene (171%) in the Low Level analysis due to obvious interferences. A copy of the chromatogram is included as an attachment to this report. The sample was analyzed as a High Level Methanol dilution in order to quantitate result(s) within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported. Differences were noted between the results of the Volatile Organics by EPA Method 5035/8260 High and Low Level analyses which have been attributed to vial discrepancies.

L2538379-07: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (162%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2538379-10: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

L2538379-10: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (138%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2538379-13: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (131%);



Serial_No:07142513:41

Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

Case Narrative (continued)

however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2538379-14: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (137%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

Total Metals

The WG2086802-4 Laboratory Duplicate RPD performed on L2538379-01 is outside the acceptance criteria for lead (22%) due to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Title: Technical Director/Representative Date: 07/14/25

Melissa Sturgis Melissa Sturgis

Pace

ORGANICS



VOLATILES



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

SAMPLE RESULTS

Date Collected: 06/17/25 10:55

Lab Number:

Report Date:

Date Received:

0/tim 22 (2002)

Lab ID: L2538379-01 Client ID: SS-1 @ 7'-8'

Sample Location: E-25060-RL-25300050

Field Prep:

06/18/25 Not Specified

L2538379

07/14/25

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/28/25 15:39

Analyst: JIC Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low -	Westborough Lab					
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
Benzene	ND		mg/kg	0.00053	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00027	1
Toluene	ND		mg/kg	0.0011	0.00058	1
1,2-Dibromoethane	ND		mg/kg	0.00053	0.00031	1
Ethylbenzene	ND		mg/kg	0.0011	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00059	1
o-Xylene	ND		mg/kg	0.0011	0.00031	1
Xylenes, Total	ND		mg/kg	0.0011	0.00031	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0021	0.00020	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0021	0.00035	1
Naphthalene	ND		mg/kg	0.0042	0.00069	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	87	70-130	
4-Bromofluorobenzene	88	70-130	
Dibromofluoromethane	101	70-130	



L2538379

07/14/25

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

SAMPLE RESULTS

Date Collected: 06/17/25 10:25

O/tim EE REGGE

Lab ID: L2538379-02 Client ID: SS-2 @ 5'-6'

Sample Location: E-25060-RL-25300050

Date Received: 06/18/25
Field Prep: Not Specified

Lab Number:

Report Date:

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/28/25 16:01

Analyst: JIC Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 Lov	w - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00024	1	
Benzene	ND		mg/kg	0.00061	0.00020	1	
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00031	1	
Toluene	ND		mg/kg	0.0012	0.00066	1	
1,2-Dibromoethane	ND		mg/kg	0.00061	0.00036	1	
Ethylbenzene	ND		mg/kg	0.0012	0.00017	1	
p/m-Xylene	ND		mg/kg	0.0024	0.00068	1	
o-Xylene	ND		mg/kg	0.0012	0.00035	1	
Xylenes, Total	ND		mg/kg	0.0012	0.00035	1	
Isopropylbenzene	ND		mg/kg	0.0012	0.00013	1	
1,3,5-Trimethylbenzene	ND		mg/kg	0.0024	0.00024	1	
1,2,4-Trimethylbenzene	ND		mg/kg	0.0024	0.00041	1	
Naphthalene	ND		mg/kg	0.0049	0.00079	1	

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	83	70-130	
4-Bromofluorobenzene	85	70-130	
Dibromofluoromethane	104	70-130	



L2538379

07/14/25

SUNOCO PIPELINE LP (SPLP) Lab Number: **Project Name:**

Project Number: PROJ-051861

SAMPLE RESULTS

Date Collected: 06/17/25 10:00

Report Date:

Lab ID: L2538379-03

Date Received: Client ID: SS-3 @ 5'-6' 06/18/25 Sample Location: Field Prep: E-25060-RL-25300050 Not Specified

Sample Depth:

Matrix: Soil Analytical Method: 1,8260D Analytical Date: 06/30/25 11:28

Analyst: AJK 90% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 L	ow - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0027	0.00028	1	
Benzene	ND		mg/kg	0.00068	0.00023	1	
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00035	1	
Toluene	ND		mg/kg	0.0014	0.00074	1	
1,2-Dibromoethane	ND		mg/kg	0.00068	0.00040	1	
Ethylbenzene	0.00025	J	mg/kg	0.0014	0.00019	1	
p/m-Xylene	0.0040		mg/kg	0.0027	0.00077	1	
o-Xylene	0.013		mg/kg	0.0014	0.00040	1	
Xylenes, Total	0.017		mg/kg	0.0014	0.00040	1	
Isopropylbenzene	0.0011	J	mg/kg	0.0014	0.00015	1	
1,3,5-Trimethylbenzene	0.041		mg/kg	0.0027	0.00026	1	
1,2,4-Trimethylbenzene	0.050		mg/kg	0.0027	0.00046	1	
Naphthalene	0.016		mg/kg	0.0055	0.00089	1	

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	92	70-130	
Toluene-d8	91	70-130	
4-Bromofluorobenzene	102	70-130	
Dibromofluoromethane	92	70-130	



L2538379

07/14/25

SUNOCO PIPELINE LP (SPLP) **Project Name:**

Project Number: PROJ-051861

SAMPLE RESULTS

Date Collected: 06/17/25 10:40

Lab Number:

Report Date:

L2538379-04

Client ID: SS-4 @ 4'-5' Date Received: 06/18/25 Sample Location: Field Prep: E-25060-RL-25300050 Not Specified

Sample Depth:

Lab ID:

Matrix: Soil Analytical Method: 1,8260D Analytical Date: 06/28/25 16:23

Analyst: JIC 91% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 L	ow - Westborough Lab					
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
Benzene	ND		mg/kg	0.00054	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
Toluene	ND		mg/kg	0.0011	0.00059	1
1,2-Dibromoethane	ND		mg/kg	0.00054	0.00032	1
Ethylbenzene	ND		mg/kg	0.0011	0.00015	1
p/m-Xylene	ND		mg/kg	0.0022	0.00061	1
o-Xylene	ND		mg/kg	0.0011	0.00032	1
Xylenes, Total	ND		mg/kg	0.0011	0.00032	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	0.0014	J	mg/kg	0.0022	0.00021	1
1,2,4-Trimethylbenzene	0.00041	J	mg/kg	0.0022	0.00036	1
Naphthalene	0.0012	J	mg/kg	0.0044	0.00071	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	108	70-130	
Toluene-d8	80	70-130	
4-Bromofluorobenzene	123	70-130	
Dibromofluoromethane	101	70-130	



L2538379

SUNOCO PIPELINE LP (SPLP) **Project Name:**

Project Number: PROJ-051861

SAMPLE RESULTS

Lab Number:

Report Date: 07/14/25

Lab ID: L2538379-05 Date Collected: 06/17/25 11:45

Client ID: Date Received: SS-5 @ 7'-7.5' 06/18/25 Field Prep: Sample Location: E-25060-RL-25300050 Not Specified

Sample Depth:

Matrix: Soil Analytical Method: 1,8260D Analytical Date: 07/01/25 04:03

Analyst: JIC 90% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
Volatile Organics by EPA 5035 Low - Westborough Lab								
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1		
Benzene	ND		mg/kg	0.00054	0.00018	1		
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1		
Toluene	0.0084		mg/kg	0.0011	0.00059	1		
1,2-Dibromoethane	ND		mg/kg	0.00054	0.00032	1		
Ethylbenzene	0.0039		mg/kg	0.0011	0.00015	1		
p/m-Xylene	0.16		mg/kg	0.0022	0.00061	1		
o-Xylene	0.14		mg/kg	0.0011	0.00032	1		
Xylenes, Total	0.30		mg/kg	0.0011	0.00032	1		
Isopropylbenzene	0.0024		mg/kg	0.0011	0.00012	1		
1,3,5-Trimethylbenzene	0.24		mg/kg	0.0022	0.00021	1		
1,2,4-Trimethylbenzene	0.18		mg/kg	0.0022	0.00036	1		
Naphthalene	0.0073		mg/kg	0.0043	0.00070	1		

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	105		70-130	
Toluene-d8	117		70-130	
4-Bromofluorobenzene	314	Q	70-130	
Dibromofluoromethane	102		70-130	



L2538379

07/14/25

Project Name: SUNOCO PIPELINE LP (SPLP)

L2538379-06

Project Number: PROJ-051861

SAMPLE RESULTS

Date Collected: 06/17/25 12:10

Lab Number:

Report Date:

 Client ID:
 SS-6 @ 6'-6.5'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Lab ID:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/29/25 18:54

Analyst: JIC Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
Volatile Organics by EPA 5035 Low	Volatile Organics by EPA 5035 Low - Westborough Lab								
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00023	1			
Benzene	ND		mg/kg	0.00056	0.00019	1			
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00029	1			
Toluene	0.0012		mg/kg	0.0011	0.00061	1			
1,2-Dibromoethane	ND		mg/kg	0.00056	0.00033	1			
Ethylbenzene	0.0022		mg/kg	0.0011	0.00016	1			
p/m-Xylene	0.060		mg/kg	0.0022	0.00063	1			
o-Xylene	0.093		mg/kg	0.0011	0.00033	1			
Xylenes, Total	0.15		mg/kg	0.0011	0.00033	1			
Isopropylbenzene	0.012		mg/kg	0.0011	0.00012	1			
Naphthalene	0.17		mg/kg	0.0045	0.00073	1			

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	98		70-130	
Toluene-d8	95		70-130	
4-Bromofluorobenzene	171	Q	70-130	
Dibromofluoromethane	98		70-130	



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2538379

Project Number: PROJ-051861 Report Date: 07/14/25

SAMPLE RESULTS

Lab ID: L2538379-06 D Date Collected: 06/17/25 12:10

 Client ID:
 SS-6 @ 6'-6.5'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/28/25 17:08

Analyst: JIC Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 High - \	Westborough Lab						
1,3,5-Trimethylbenzene	2.6		mg/kg	0.26	0.025	2	
1,2,4-Trimethylbenzene	6.6		mg/kg	0.26	0.043	2	

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	97	70-130	
Toluene-d8	84	70-130	
4-Bromofluorobenzene	111	70-130	
Dibromofluoromethane	91	70-130	



L2538379

07/14/25

SUNOCO PIPELINE LP (SPLP) **Project Name:**

Project Number: PROJ-051861

SAMPLE RESULTS

Lab Number:

Report Date:

Lab ID: L2538379-07 Date Collected: 06/17/25 12:30

Client ID: Date Received: SS-7 @ 7'-8' 06/18/25 Field Prep: Sample Location: E-25060-RL-25300050 Not Specified

Sample Depth:

Matrix: Soil Analytical Method: 1,8260D Analytical Date: 06/29/25 19:16

Analyst: JIC 90% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 I	Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1	
Benzene	ND		mg/kg	0.00052	0.00017	1	
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	1	
Toluene	ND		mg/kg	0.0010	0.00056	1	
1,2-Dibromoethane	ND		mg/kg	0.00052	0.00030	1	
Ethylbenzene	0.00049	J	mg/kg	0.0010	0.00014	1	
p/m-Xylene	0.010		mg/kg	0.0021	0.00058	1	
o-Xylene	0.023		mg/kg	0.0010	0.00030	1	
Xylenes, Total	0.033		mg/kg	0.0010	0.00030	1	
Isopropylbenzene	0.0038		mg/kg	0.0010	0.00011	1	
1,3,5-Trimethylbenzene	0.098		mg/kg	0.0021	0.00020	1	
1,2,4-Trimethylbenzene	0.14		mg/kg	0.0021	0.00034	1	
Naphthalene	0.012		mg/kg	0.0041	0.00067	1	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	93		70-130	
Toluene-d8	93		70-130	
4-Bromofluorobenzene	162	Q	70-130	
Dibromofluoromethane	87		70-130	



L2538379

07/14/25

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

SAMPLE RESULTS

Date Collected: 06/17/25 13:10

Lab Number:

Report Date:

Lab ID: L2538379-08

 Client ID:
 SS-8 @ 7'-8'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/29/25 16:40

Analyst: JIC Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
Volatile Organics by EPA 5035 Low - Westborough Lab								
Methyl tert butyl ether	ND		mg/kg	0.0023	0.00023	1		
Benzene	ND		mg/kg	0.00057	0.00019	1		
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00029	1		
Toluene	ND		mg/kg	0.0011	0.00062	1		
1,2-Dibromoethane	ND		mg/kg	0.00057	0.00033	1		
Ethylbenzene	ND		mg/kg	0.0011	0.00016	1		
p/m-Xylene	ND		mg/kg	0.0023	0.00064	1		
o-Xylene	ND		mg/kg	0.0011	0.00033	1		
Xylenes, Total	ND		mg/kg	0.0011	0.00033	1		
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1		
1,3,5-Trimethylbenzene	0.0012	J	mg/kg	0.0023	0.00022	1		
1,2,4-Trimethylbenzene	0.00078	J	mg/kg	0.0023	0.00038	1		
Naphthalene	ND		mg/kg	0.0045	0.00074	1		

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	88	70-130	
4-Bromofluorobenzene	90	70-130	
Dibromofluoromethane	93	70-130	



L2538379

07/14/25

Not Specified

06/18/25

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

SAMPLE RESULTS

Date Collected: 06/17/25 13:30

Lab Number:

Report Date:

Date Received:

Lab ID: L2538379-09
Client ID: SS-9 @ 5'-6'

Sample Location: E-25060-RL-25300050

60-RL-25300050 Field Prep:

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/29/25 17:02

Analyst: JIC Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 Low -	Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0025	0.00025	1	
Benzene	ND		mg/kg	0.00062	0.00020	1	
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00032	1	
Toluene	ND		mg/kg	0.0012	0.00067	1	
1,2-Dibromoethane	ND		mg/kg	0.00062	0.00036	1	
Ethylbenzene	ND		mg/kg	0.0012	0.00017	1	
p/m-Xylene	ND		mg/kg	0.0025	0.00069	1	
o-Xylene	ND		mg/kg	0.0012	0.00036	1	
Xylenes, Total	ND		mg/kg	0.0012	0.00036	1	
Isopropylbenzene	ND		mg/kg	0.0012	0.00014	1	
1,3,5-Trimethylbenzene	ND		mg/kg	0.0025	0.00024	1	
1,2,4-Trimethylbenzene	ND		mg/kg	0.0025	0.00041	1	
Naphthalene	ND		mg/kg	0.0050	0.00081	1	

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	99	70-130	
Toluene-d8	88	70-130	
4-Bromofluorobenzene	94	70-130	
Dibromofluoromethane	94	70-130	



L2538379

07/14/25

Not Specified

06/18/25

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

SAMPLE RESULTS

Date Collected: 06/17/25 13:00

Lab Number:

Report Date:

Date Received:

Field Prep:

Lab ID: L2538379-10 Date Collected:

Client ID: SS-10 @ 7'-8'

Sample Location: E-25060-RL-25300050

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/29/25 19:38

Analyst: JIC Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High -	Westborough Lab)				
Methyl tert butyl ether	ND		mg/kg	0.13	0.013	1
Benzene	ND		mg/kg	0.032	0.011	1
1,2-Dichloroethane	ND		mg/kg	0.064	0.016	1
Toluene	ND		mg/kg	0.064	0.035	1
1,2-Dibromoethane	ND		mg/kg	0.032	0.019	1
Ethylbenzene	ND		mg/kg	0.064	0.0091	1
p/m-Xylene	0.16		mg/kg	0.13	0.036	1
o-Xylene	0.12		mg/kg	0.064	0.019	1
Xylenes, Total	0.28		mg/kg	0.064	0.019	1
Isopropylbenzene	0.015	J	mg/kg	0.064	0.0070	1
1,3,5-Trimethylbenzene	0.96		mg/kg	0.13	0.012	1
1,2,4-Trimethylbenzene	1.2		mg/kg	0.13	0.022	1
Naphthalene	0.20	J	mg/kg	0.26	0.042	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	97		70-130	
Toluene-d8	89		70-130	
4-Bromofluorobenzene	138	Q	70-130	
Dibromofluoromethane	88		70-130	



L2538379

07/14/25

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

SAMPLE RESULTS

Date Collected: 06/17/25 13:40

Lab Number:

Report Date:

 Lab ID:
 L2538379-11
 Date Collected:
 06/17/25 13

 Client ID:
 SS-11 @ 3'-4'
 Date Received:
 06/18/25

Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/29/25 17:25

Analyst: JIC Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 Lo	ow - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0023	0.00023	1	
Benzene	ND		mg/kg	0.00058	0.00019	1	
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00030	1	
Toluene	ND		mg/kg	0.0012	0.00062	1	
1,2-Dibromoethane	ND		mg/kg	0.00058	0.00034	1	
Ethylbenzene	ND		mg/kg	0.0012	0.00016	1	
p/m-Xylene	ND		mg/kg	0.0023	0.00064	1	
o-Xylene	ND		mg/kg	0.0012	0.00034	1	
Xylenes, Total	ND		mg/kg	0.0012	0.00034	1	
Isopropylbenzene	ND		mg/kg	0.0012	0.00012	1	
1,3,5-Trimethylbenzene	ND		mg/kg	0.0023	0.00022	1	
1,2,4-Trimethylbenzene	ND		mg/kg	0.0023	0.00038	1	
Naphthalene	ND		mg/kg	0.0046	0.00075	1	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	113		70-130	
Toluene-d8	74		70-130	
4-Bromofluorobenzene	94		70-130	
Dibromofluoromethane	94		70-130	



L2538379

07/14/25

SUNOCO PIPELINE LP (SPLP) **Project Name:** Lab Number:

Project Number: PROJ-051861

SAMPLE RESULTS

06/17/25 13:55

Report Date:

Lab ID: L2538379-12 Date Collected: Date Received:

Client ID: SS-12 @ 6'-7' 06/18/25 Sample Location: Field Prep: E-25060-RL-25300050 Not Specified

Sample Depth:

Matrix: Soil Analytical Method: 1,8260D Analytical Date: 06/29/25 20:01

Analyst: JIC 86% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 H	ligh - Westborough Lab)				
Methyl tert butyl ether	ND		mg/kg	0.20	0.020	1
Benzene	ND		mg/kg	0.051	0.017	1
1,2-Dichloroethane	ND		mg/kg	0.10	0.026	1
Toluene	ND		mg/kg	0.10	0.055	1
1,2-Dibromoethane	ND		mg/kg	0.051	0.030	1
Ethylbenzene	ND		mg/kg	0.10	0.014	1
p/m-Xylene	ND		mg/kg	0.20	0.057	1
o-Xylene	0.037	J	mg/kg	0.10	0.029	1
Xylenes, Total	0.037	J	mg/kg	0.10	0.029	1
Isopropylbenzene	0.025	J	mg/kg	0.10	0.011	1
1,3,5-Trimethylbenzene	2.1		mg/kg	0.20	0.020	1
1,2,4-Trimethylbenzene	5.5		mg/kg	0.20	0.034	1
Naphthalene	2.3		mg/kg	0.40	0.066	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	89	70-130	
4-Bromofluorobenzene	113	70-130	
Dibromofluoromethane	88	70-130	



L2538379

07/14/25

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

SAMPLE RESULTS

Lab Number:

Report Date:

Lab ID: L2538379-13 Date Collected: 06/17/25 11:55

 Client ID:
 SS-13 @ 7'-8'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/29/25 17:47

Analyst: JIC Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 L	.ow - Westborough Lab					
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00021	1
Benzene	ND		mg/kg	0.00051	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	1
Toluene	ND		mg/kg	0.0010	0.00056	1
1,2-Dibromoethane	ND		mg/kg	0.00051	0.00030	1
Ethylbenzene	ND		mg/kg	0.0010	0.00014	1
p/m-Xylene	ND		mg/kg	0.0020	0.00057	1
o-Xylene	ND		mg/kg	0.0010	0.00030	1
Xylenes, Total	ND		mg/kg	0.0010	0.00030	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	0.0015	J	mg/kg	0.0020	0.00020	1
1,2,4-Trimethylbenzene	0.0012	J	mg/kg	0.0020	0.00034	1
Naphthalene	ND		mg/kg	0.0041	0.00067	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	94		70-130	
Toluene-d8	84		70-130	
4-Bromofluorobenzene	131	Q	70-130	
Dibromofluoromethane	84		70-130	



L2538379

07/14/25

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

SAMPLE RESULTS

Date Collected: 06/17/25 12:45

Lab Number:

Report Date:

Lab ID: L2538379-14

Client ID: SS-14 @ 7'-8'

Sample Location: E-25060-RL-25300050

Date Received: 06/18/25
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/29/25 20:23

Analyst: JIC Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High	- Westborough Lab					
Methyl tert butyl ether	ND		mg/kg	0.12	0.012	1
Benzene	ND		mg/kg	0.031	0.010	1
1,2-Dichloroethane	ND		mg/kg	0.061	0.016	1
Toluene	ND		mg/kg	0.061	0.033	1
1,2-Dibromoethane	ND		mg/kg	0.031	0.018	1
Ethylbenzene	0.028	J	mg/kg	0.061	0.0087	1
p/m-Xylene	0.23		mg/kg	0.12	0.034	1
o-Xylene	0.42		mg/kg	0.061	0.018	1
Xylenes, Total	0.65		mg/kg	0.061	0.018	1
Isopropylbenzene	0.13		mg/kg	0.061	0.0067	1
1,3,5-Trimethylbenzene	2.6		mg/kg	0.12	0.012	1
1,2,4-Trimethylbenzene	3.7		mg/kg	0.12	0.020	1
Naphthalene	0.42		mg/kg	0.24	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	97		70-130	
Toluene-d8	90		70-130	
4-Bromofluorobenzene	137	Q	70-130	
Dibromofluoromethane	86		70-130	



Lab Number:

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Report Date: PROJ-051861 07/14/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 06/29/25 12:56

Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	
Volatile Organics by EPA 5035 Low	- Westboro	ugh Lab for	sample(s):	06-09,11,13	Batch:	WG2085305-5
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020	
Benzene	ND		mg/kg	0.00050	0.00017	
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	
Toluene	ND		mg/kg	0.0010	0.00054	
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029	
Ethylbenzene	ND		mg/kg	0.0010	0.00014	
p/m-Xylene	ND		mg/kg	0.0020	0.00056	
o-Xylene	ND		mg/kg	0.0010	0.00029	
Xylenes, Total	ND		mg/kg	0.0010	0.00029	
Isopropylbenzene	ND		mg/kg	0.0010	0.00011	
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019	
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033	
Naphthalene	ND		mg/kg	0.0040	0.00065	

Surrogate	%Recovery Qualif	Acceptance ier Criteria
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	93	70-130
Dibromofluoromethane	89	70-130



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2538379

Project Number: PROJ-051861 Report Date: 07/14/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 06/29/25 12:56

Analyst: AJK

arameter	Result	Qualifier	Units	RL	MDL	
olatile Organics by EPA 503	5 High - Westbord	ough Lab fo	or sample(s):	10,12,14	Batch:	WG2085307-5
Methyl tert butyl ether	ND		mg/kg	0.10	0.010	
Benzene	ND		mg/kg	0.025	0.0083	
1,2-Dichloroethane	ND		mg/kg	0.050	0.013	
Toluene	ND		mg/kg	0.050	0.027	
1,2-Dibromoethane	ND		mg/kg	0.025	0.015	
Ethylbenzene	ND		mg/kg	0.050	0.0070	
p/m-Xylene	ND		mg/kg	0.10	0.028	
o-Xylene	ND		mg/kg	0.050	0.014	
Xylenes, Total	ND		mg/kg	0.050	0.014	
Isopropylbenzene	ND		mg/kg	0.050	0.0054	
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096	
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017	
Naphthalene	ND		mg/kg	0.20	0.032	

Surrogate	%Recovery Qualif	Acceptance ier Criteria
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	93	70-130
Dibromofluoromethane	89	70-130



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2538379

Project Number: PROJ-051861 Report Date: 07/14/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 06/28/25 10:28

Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL	
Volatile Organics by EPA 5035 Low	- Westboro	ugh Lab for	sample(s):	01-02,04	Batch:	WG2085333-5
Methyl tert butyl ether	ND		mg/kg	0.0020	0.0002	0
Benzene	ND		mg/kg	0.00050	0.0001	7
1,2-Dichloroethane	ND		mg/kg	0.0010	0.0002	6
Toluene	ND		mg/kg	0.0010	0.0005	4
1,2-Dibromoethane	ND		mg/kg	0.00050	0.0002	9
Ethylbenzene	ND		mg/kg	0.0010	0.0001	4
p/m-Xylene	ND		mg/kg	0.0020	0.0005	6
o-Xylene	ND		mg/kg	0.0010	0.0002	9
Xylenes, Total	ND		mg/kg	0.0010	0.0002	9
Isopropylbenzene	ND		mg/kg	0.0010	0.0001	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.0001	9
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.0003	3
Naphthalene	ND		mg/kg	0.0040	0.0006	5

Surrogate	%Recovery Quali	Acceptance fier Criteria	
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	86	70-130	
4-Bromofluorobenzene	94	70-130	
Dibromofluoromethane	95	70-130	



Lab Number:

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Report Date: PROJ-051861 07/14/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 06/28/25 10:28

Analyst: MNF

Parameter	Result	Qualifier	Units	RL		MDL
olatile Organics by EPA 5035	High - Westbord	ough Lab fo	or sample(s):	06	Batch:	WG2085334-5
Methyl tert butyl ether	ND		mg/kg	0.10		0.010
Benzene	ND		mg/kg	0.025		0.0083
1,2-Dichloroethane	ND		mg/kg	0.050		0.013
Toluene	ND		mg/kg	0.050		0.027
1,2-Dibromoethane	ND		mg/kg	0.025		0.015
Ethylbenzene	ND		mg/kg	0.050		0.0070
p/m-Xylene	ND		mg/kg	0.10		0.028
o-Xylene	ND		mg/kg	0.050		0.014
Xylenes, Total	ND		mg/kg	0.050		0.014
Isopropylbenzene	ND		mg/kg	0.050		0.0054
1,3,5-Trimethylbenzene	ND		mg/kg	0.10		0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10		0.017
Naphthalene	ND		mg/kg	0.20		0.032

		Acceptance
Surrogate	%Recovery Qu	alifier Criteria
1.2-Dichloroethane-d4	109	70-130
Toluene-d8	86	70-130
4-Bromofluorobenzene	94	70-130
Dibromofluoromethane	95	70-130



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number:

Project Number: PROJ-051861 Report Date: 07/14/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 06/30/25 09:19

Analyst: AJK

arameter	Result	Qualifier	Units	RL		MDL
olatile Organics by EPA 5035	Low - Westboro	ugh Lab fo	r sample(s):	03	Batch:	WG2085700-5
Methyl tert butyl ether	ND		mg/kg	0.002	0	0.00020
Benzene	ND		mg/kg	0.0005	50	0.00017
1,2-Dichloroethane	ND		mg/kg	0.001	0	0.00026
Toluene	ND		mg/kg	0.001	0	0.00054
1,2-Dibromoethane	ND		mg/kg	0.0005	50	0.00029
Ethylbenzene	ND		mg/kg	0.001	0	0.00014
p/m-Xylene	ND		mg/kg	0.002	0	0.00056
o-Xylene	ND		mg/kg	0.001	0	0.00029
Xylenes, Total	ND		mg/kg	0.001	0	0.00029
Isopropylbenzene	ND		mg/kg	0.001	0	0.00011
1,3,5-Trimethylbenzene	ND		mg/kg	0.002	0	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.002	0	0.00033
Naphthalene	ND		mg/kg	0.004	0	0.00065

		Acceptance			
Surrogate	%Recovery	Qualifier	Criteria		
1.2-Dichloroethane-d4	89		70-130		
Toluene-d8	93		70-130		
4-Bromofluorobenzene	87		70-130		
Dibromofluoromethane	92		70-130		



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number:

Project Number: PROJ-051861 Report Date: 07/14/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 06/30/25 21:46

Analyst: TMH

arameter	Result	Qualifier	Units	RL		MDL
olatile Organics by EPA 5035 Low	- Westboro	ugh Lab foi	sample(s):	05	Batch:	WG2085858-5
Methyl tert butyl ether	ND		mg/kg	0.002	0	0.00020
Benzene	ND		mg/kg	0.0005	50	0.00017
1,2-Dichloroethane	ND		mg/kg	0.001	0	0.00026
Toluene	ND		mg/kg	0.001	0	0.00054
1,2-Dibromoethane	ND		mg/kg	0.0005	50	0.00029
Ethylbenzene	ND		mg/kg	0.001	0	0.00014
p/m-Xylene	ND		mg/kg	0.002	0	0.00056
o-Xylene	ND		mg/kg	0.001	0	0.00029
Xylenes, Total	ND		mg/kg	0.001	0	0.00029
Isopropylbenzene	ND		mg/kg	0.001	0	0.00011
1,3,5-Trimethylbenzene	ND		mg/kg	0.002	0	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.002	0	0.00033
Naphthalene	ND		mg/kg	0.004	0	0.00065

		Acceptance		
Surrogate	%Recovery 0	Qualifier C	riteria	
1.2-Dichloroethane-d4	127	7(D-130	
Toluene-d8	93)-130	
4-Bromofluorobenzene	96	70	0-130	
Dibromofluoromethane	115	70	0-130	



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number: Lab

L2538379

Report Date:

07/14/25

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
platile Organics by EPA 5035 Low - Wes	tborough Lab	Associated sa	mple(s): 06-0	9,11,13	Batch: WG20853	05-3 WG20	85305-4	
Methyl tert butyl ether	86		80		66-130	7		30
Benzene	90		78		70-130	14		30
1,2-Dichloroethane	93		85		70-130	9		30
Toluene	88		84		70-130	5		30
1,2-Dibromoethane	85		84		70-130	1		30
Ethylbenzene	89		82		70-130	8		30
p/m-Xylene	91		86		70-130	6		30
o-Xylene	87		80		70-130	8		30
Isopropylbenzene	89		74		70-130	18		30
1,3,5-Trimethylbenzene	90		69	Q	70-130	26		30
1,2,4-Trimethylbenzene	90		78		70-130	14		30
Naphthalene	81		76		70-130	6		30

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria	
1,2-Dichloroethane-d4	91	90	70-130	
Toluene-d8	89	96	70-130	
4-Bromofluorobenzene	91	89	70-130	
Dibromofluoromethane	94	88	70-130	



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2538379

Report Date:

07/14/25

rameter	LCS %Recovery	LC: Qual %Reco		ual	%Recovery Limits	RPD	Qual	RPD Limits
platile Organics by EPA 5035 High - Wes	stborough Lab	Associated sample(s)	: 10,12,14	Batch:	WG2085307-3	WG20853	307-4	
Methyl tert butyl ether	86	8	0		66-130	7		30
Benzene	90	7	3		70-130	14		30
1,2-Dichloroethane	93	8	5		70-130	9		30
Toluene	88	8	4		70-130	5		30
1,2-Dibromoethane	85	8	4		70-130	1		30
Ethylbenzene	89	8	2		70-130	8		30
p/m-Xylene	91	8	6		70-130	6		30
o-Xylene	87	8	0		70-130	8		30
Isopropylbenzene	89	7	4		70-130	18		30
1,3,5-Trimethylbenzene	90	6	9	Q	70-130	26		30
1,2,4-Trimethylbenzene	90	7	3		70-130	14		30
Naphthalene	81	7	6		70-130	6		30

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91	91	70-130
Toluene-d8	89	96	70-130
4-Bromofluorobenzene	91	89	70-130
Dibromofluoromethane	94	88	70-130



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number: L2538379

arameter	LCS %Recovery	LCS Qual %Reco		%Recovery Limits	RPD	Qual	RPD Limits
platile Organics by EPA 5035 Low - Wes	tborough Lab	Associated sample(s):	01-02,04 Ba	atch: WG2085333-3	WG20853	33-4	
Methyl tert butyl ether	94	93		66-130	1		30
Benzene	97	86	j	70-130	12		30
1,2-Dichloroethane	104	10	0	70-130	4		30
Toluene	91	82	!	70-130	10		30
1,2-Dibromoethane	89	90)	70-130	1		30
Ethylbenzene	93	84	ļ.	70-130	10		30
p/m-Xylene	92	84		70-130	9		30
o-Xylene	90	83	}	70-130	8		30
Isopropylbenzene	88	81		70-130	8		30
1,3,5-Trimethylbenzene	90	83	1	70-130	8		30
1,2,4-Trimethylbenzene	92	85	i	70-130	8		30
Naphthalene	83	88	.	70-130	6		30

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100	103	70-130
Toluene-d8	89	88	70-130
4-Bromofluorobenzene	94	94	70-130
Dibromofluoromethane	92	94	70-130



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number: L2538379

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
olatile Organics by EPA 5035 High -	Westborough Lab	Associated s	sample(s): 06	Batch:	WG2085334-3	WG2085334-4		
Methyl tert butyl ether	94		93		66-130	1		30
Benzene	97		86		70-130	12		30
1,2-Dichloroethane	104		100		70-130	4		30
Toluene	91		82		70-130	10		30
1,2-Dibromoethane	89		90		70-130	1		30
Ethylbenzene	93		84		70-130	10		30
p/m-Xylene	92		84		70-130	9		30
o-Xylene	90		83		70-130	8		30
Isopropylbenzene	88		81		70-130	8		30
1,3,5-Trimethylbenzene	90		83		70-130	8		30
1,2,4-Trimethylbenzene	92		85		70-130	8		30
Naphthalene	83		88		70-130	6		30

	LCS	LCSD	Acceptance Criteria	
Surrogate	%Recovery Qual	%Recovery Qual	Criteria	
1,2-Dichloroethane-d4	100	103	70-130	
Toluene-d8	89	88	70-130	
4-Bromofluorobenzene	94	94	70-130	
Dibromofluoromethane	92	94	70-130	



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number: L2538379

rameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	y RPD	Qual	RPD Limits
platile Organics by EPA 5035 Low -	· Westborough Lab	Associated sa	ample(s): 03	Batch:	WG2085700-3	WG2085700-4		
Methyl tert butyl ether	87		82		66-130	6		30
Benzene	97		90		70-130	7		30
1,2-Dichloroethane	85		81		70-130	5		30
Toluene	94		89		70-130	5		30
1,2-Dibromoethane	95		92		70-130	3		30
Ethylbenzene	98		92		70-130	6		30
p/m-Xylene	100		95		70-130	5		30
o-Xylene	98		91		70-130	7		30
Isopropylbenzene	95		91		70-130	4		30
1,3,5-Trimethylbenzene	95		90		70-130	5		30
1,2,4-Trimethylbenzene	95		90		70-130	5		30
Naphthalene	67	Q	68	Q	70-130	1		30

Surrogate	LCS	LCSD	Acceptance
	%Recovery Qual	%Recovery Qual	Criteria
1,2-Dichloroethane-d4	88	86	70-130
Toluene-d8	94	93	70-130
4-Bromofluorobenzene	98	88	70-130
Dibromofluoromethane	93	91	70-130



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number: L2538379

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	/ RPD	Qual	RPD Limits
platile Organics by EPA 5035 Low	- Westborough Lab	Associated sa	ample(s): 05	Batch:	WG2085858-3	WG2085858-4		
Methyl tert butyl ether	94		101		66-130	7		30
Benzene	99		98		70-130	1		30
1,2-Dichloroethane	95		98		70-130	3		30
Toluene	81		79		70-130	3		30
1,2-Dibromoethane	93		99		70-130	6		30
Ethylbenzene	92		91		70-130	1		30
p/m-Xylene	96		95		70-130	1		30
o-Xylene	96		96		70-130	0		30
Isopropylbenzene	95		91		70-130	4		30
1,3,5-Trimethylbenzene	96		93		70-130	3		30
1,2,4-Trimethylbenzene	97		94		70-130	3		30
Naphthalene	78		83		70-130	6		30

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96	102	70-130
Toluene-d8	98	99	70-130
4-Bromofluorobenzene	103	101	70-130
Dibromofluoromethane	97	98	70-130



METALS



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

SAMPLE RESULTS

 Lab ID:
 L2538379-01
 Date Collected:
 06/17/25 10:55

 Client ID:
 SS-1 @ 7'-8'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 89%

Prep Dilution Date Date **Analytical** Method **Parameter** Result Qualifier Units Factor Prepared Analyzed Method RLMDL **Analyst** Total Metals - Mansfield Lab 12 Lead, Total mg/kg 0.66 0.06 10 07/03/25 15:56 07/14/25 09:27 EPA 3050B 1,6020B **BLR**



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

SAMPLE RESULTS

 Lab ID:
 L2538379-02
 Date Collected:
 06/17/25 10:25

 Client ID:
 SS-2 @ 5'-6'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 80%

Prep **Analytical** Dilution Date Date Method **Parameter** Result Qualifier Units MDL Factor Prepared Analyzed Method RL**Analyst** Total Metals - Mansfield Lab 22 Lead, Total mg/kg 0.74 0.06 10 07/03/25 15:56 07/14/25 09:51 EPA 3050B 1,6020B **BLR**



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

SAMPLE RESULTS

 Lab ID:
 L2538379-03
 Date Collected:
 06/17/25 10:00

 Client ID:
 SS-3 @ 5'-6'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 90%

Prep **Analytical** Dilution Date Date Method **Parameter** Result Qualifier Units Factor Prepared Analyzed Method RLMDL **Analyst** Total Metals - Mansfield Lab 43 Lead, Total mg/kg 0.63 0.05 10 07/03/25 15:56 07/14/25 09:56 EPA 3050B 1,6020B **BLR**



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

SAMPLE RESULTS

 Lab ID:
 L2538379-04
 Date Collected:
 06/17/25 10:40

 Client ID:
 SS-4 @ 4'-5'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 91%

Prep **Analytical** Dilution Date Date Method **Parameter** Result Qualifier Units Factor Prepared Analyzed Method RLMDL **Analyst** Total Metals - Mansfield Lab Lead, Total 15 mg/kg 0.65 0.06 10 07/03/25 15:56 07/14/25 10:36 EPA 3050B 1,6020B **BLR**



1,6020B

BLR

07/03/25 15:56 07/14/25 10:41 EPA 3050B

Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

SAMPLE RESULTS

0.66

mg/kg

 Lab ID:
 L2538379-05
 Date Collected:
 06/17/25 11:45

 Client ID:
 SS-5 @ 7'-7.5'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Lead, Total

Matrix: Soil Percent Solids: 90%

8.7

Prep Dilution Date Date **Analytical** Method **Parameter** Result Qualifier Units Factor Prepared Analyzed Method RLMDL **Analyst** Total Metals - Mansfield Lab

10

0.06



1,6020B

BLR

07/03/25 15:56 07/14/25 10:46 EPA 3050B

Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

SAMPLE RESULTS

 Lab ID:
 L2538379-06
 Date Collected:
 06/17/25 12:10

 Client ID:
 SS-6 @ 6'-6.5'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Lead, Total

Matrix: Soil
Percent Solids: 89%

26

mg/kg

0.65

Percent Solids: Prep **Analytical** Dilution Date Date Method **Parameter** Result Qualifier Units Factor Prepared Analyzed Method RLMDL **Analyst** Total Metals - Mansfield Lab

10

0.06



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

SAMPLE RESULTS

 Lab ID:
 L2538379-07
 Date Collected:
 06/17/25 12:30

 Client ID:
 SS-7 @ 7'-8'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 90%

Prep **Analytical** Dilution Date Date Method **Parameter** Result Qualifier Units MDL Factor Prepared Analyzed Method RL**Analyst** Total Metals - Mansfield Lab 21 Lead, Total mg/kg 0.64 0.06 10 07/03/25 15:56 07/14/25 10:51 EPA 3050B 1,6020B **BLR**



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

SAMPLE RESULTS

 Lab ID:
 L2538379-08
 Date Collected:
 06/17/25 13:10

 Client ID:
 SS-8 @ 7'-8'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 88%

Prep **Analytical** Dilution Date Date Method **Parameter** Result Qualifier Units Factor Prepared Analyzed Method RLMDL **Analyst** Total Metals - Mansfield Lab 18 Lead, Total mg/kg 0.64 0.06 10 07/03/25 15:56 07/14/25 10:56 EPA 3050B 1,6020B **BLR**



1,6020B

BLR

07/03/25 15:56 07/14/25 11:01 EPA 3050B

Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

SAMPLE RESULTS

0.67

mg/kg

 Lab ID:
 L2538379-09
 Date Collected:
 06/17/25 13:30

 Client ID:
 SS-9 @ 5'-6'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Lead, Total

Matrix: Soil Percent Solids: 86%

19

Prep **Analytical** Dilution Date Date Method **Parameter** Result Qualifier Units MDL Factor Prepared Analyzed Method RL**Analyst** Total Metals - Mansfield Lab

10

0.06



Project Name: Lab Number: SUNOCO PIPELINE LP (SPLP) L2538379 **Project Number:** PROJ-051861 **Report Date:** 07/14/25

SAMPLE RESULTS

Lab ID: Date Collected: L2538379-10 06/17/25 13:00 Client ID: SS-10 @ 7'-8' Date Received: 06/18/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Matrix: Soil 86% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Parameter** Result Qualifier Units Factor Prepared Analyzed Method RLMDL

Analyst Total Metals - Mansfield Lab 20 Lead, Total mg/kg 0.69 0.06 10 07/03/25 15:56 07/14/25 11:06 EPA 3050B 1,6020B **BLR**



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

SAMPLE RESULTS

 Lab ID:
 L2538379-11
 Date Collected:
 06/17/25 13:40

 Client ID:
 SS-11 @ 3'-4'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 84%

Prep Dilution Date Date **Analytical** Method **Parameter** Result Qualifier Units Factor Prepared Analyzed Method RLMDL **Analyst** Total Metals - Mansfield Lab 22 Lead, Total mg/kg 0.69 0.06 10 07/03/25 15:56 07/14/25 11:11 EPA 3050B 1,6020B **BLR**



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

SAMPLE RESULTS

 Lab ID:
 L2538379-12
 Date Collected:
 06/17/25 13:55

 Client ID:
 SS-12 @ 6'-7'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 86%

Prep **Analytical** Dilution Date Date Method **Parameter** Result Qualifier Units MDL Factor Prepared Analyzed Method RL**Analyst** Total Metals - Mansfield Lab 12 Lead, Total mg/kg 0.69 0.06 10 07/03/25 15:56 07/14/25 11:16 EPA 3050B 1,6020B **BLR**



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

SAMPLE RESULTS

 Lab ID:
 L2538379-13
 Date Collected:
 06/17/25 11:55

 Client ID:
 SS-13 @ 7'-8'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 87%

Prep **Analytical** Dilution Date Date Method **Parameter** Result Qualifier Units Factor Prepared Analyzed Method RLMDL **Analyst** Total Metals - Mansfield Lab 22 Lead, Total mg/kg 0.67 0.06 10 07/03/25 15:56 07/14/25 11:21 EPA 3050B 1,6020B **BLR**



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

SAMPLE RESULTS

 Lab ID:
 L2538379-14
 Date Collected:
 06/17/25 12:45

 Client ID:
 SS-14 @ 7'-8'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 90%

Prep **Analytical** Dilution Date Date Method **Parameter** Result Qualifier Units Factor Prepared Analyzed Method RLMDL **Analyst** Total Metals - Mansfield Lab 21 Lead, Total mg/kg 0.63 0.05 10 07/03/25 15:56 07/14/25 11:48 EPA 3050B 1,6020B **BLR**



Project Name: SUNOCO PIPELINE LP (SPLP) PROJ-051861

Project Number:

Lab Number:

L2538379

Report Date:

07/14/25

Method Blank Analysis Batch Quality Control

Dilution Date Date Analytical Method Analyst **Result Qualifier** RL**Factor Prepared** Analyzed **Parameter Units** MDL Total Metals - Mansfield Lab for sample(s): 01-14 Batch: WG2086802-1 Lead, Total ND mg/kg 0.60 0.05 10 07/03/25 15:56 07/14/25 09:12 1,6020B BLR

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2538379

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Total Metals - Mansfield Lab	Associated sample(s): 01-14	Batch: W	G2086802-2						
Lead, Total	111		-		80-120	-		20	



Matrix Spike Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2538379

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual Limits	r RPD Qua	RPD al Limits
Total Metals - Mansfield	Lab Associated sam	ple(s): 01-14	QC Bat	tch ID: WG2086	6802-3	QC Sam	nple: L2538379-	-01 Client ID: S	S-1 @ 7'-8'	
Lead, Total	12	44.9	61	109		-	-	75-125	-	20



Lab Duplicate Analysis

Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2538379

Report Date:

Parameter	Native Sample	Duplica	te Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-	14 QC Batch ID:	WG2086802-4	QC Sample:	L2538379-01	Client ID:	SS-1 @ 7'-	8'
Lead, Total	12		15	mg/kg	22	Q	20



INORGANICS & MISCELLANEOUS



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2538379

Project Number: PROJ-051861 Report Date: 07/14/25

SAMPLE RESULTS

Lab ID: L2538379-01 Date Collected: 06/17/25 10:55

Client ID: SS-1 @ 7'-8' Date Received: 06/18/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	estborough Lab)								
Solids, Total	89.1		%	0.100	NA	1	-	06/28/25 02:43	121,2540G	JMN
Moisture	10.9		%	0.100	NA	1	-	06/28/25 02:43	121,2540G	JMN



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2538379

Project Number: PROJ-051861 Report Date: 07/14/25

SAMPLE RESULTS

Lab ID: L2538379-02 Date Collected: 06/17/25 10:25

Client ID: SS-2 @ 5'-6' Date Received: 06/18/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab)								
Solids, Total	79.6		%	0.100	NA	1	-	06/28/25 02:43	121,2540G	JMN
Moisture	20.4		%	0.100	NA	1	-	06/28/25 02:43	121,2540G	JMN



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2538379

Project Number: PROJ-051861 Report Date: 07/14/25

SAMPLE RESULTS

Lab ID: L2538379-03 Date Collected: 06/17/25 10:00

Client ID: SS-3 @ 5'-6' Date Received: 06/18/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab)								
Solids, Total	89.6		%	0.100	NA	1	-	06/28/25 02:43	121,2540G	JMN
Moisture	10.4		%	0.100	NA	1	-	06/28/25 02:43	121,2540G	JMN



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2538379

Project Number: PROJ-051861 Report Date: 07/14/25

SAMPLE RESULTS

Lab ID: L2538379-04 Date Collected: 06/17/25 10:40

Client ID: SS-4 @ 4'-5' Date Received: 06/18/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab)								
Solids, Total	90.9		%	0.100	NA	1	-	06/28/25 02:43	121,2540G	JMN
Moisture	9.10		%	0.100	NA	1	-	06/28/25 02:43	121,2540G	JMN



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2538379

Project Number: PROJ-051861 Report Date: 07/14/25

SAMPLE RESULTS

Lab ID: L2538379-05 Date Collected: 06/17/25 11:45

Client ID: SS-5 @ 7'-7.5' Date Received: 06/18/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab)								
Solids, Total	89.6		%	0.100	NA	1	-	06/28/25 02:43	121,2540G	JMN
Moisture	10.4		%	0.100	NA	1	-	06/28/25 02:43	121,2540G	JMN



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2538379

Project Number: PROJ-051861 Report Date: 07/14/25

SAMPLE RESULTS

Lab ID: L2538379-06 Date Collected: 06/17/25 12:10

 Client ID:
 SS-6 @ 6'-6.5'
 Date Received:
 06/18/25

 Sample Location:
 E-25060-RL-25300050
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab)								
Solids, Total	89.3		%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN
Moisture	10.7		%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2538379

Project Number: PROJ-051861 Report Date: 07/14/25

SAMPLE RESULTS

Lab ID: L2538379-07 Date Collected: 06/17/25 12:30

Client ID: SS-7 @ 7'-8' Date Received: 06/18/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab)								
Solids, Total	89.8		%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN
Moisture	10.2		%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2538379

Project Number: PROJ-051861 Report Date: 07/14/25

SAMPLE RESULTS

Lab ID: L2538379-08 Date Collected: 06/17/25 13:10

Client ID: SS-8 @ 7'-8' Date Received: 06/18/25

Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Parameter	Result Quali	ier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab								
Solids, Total	88.4	%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN
Moisture	11.6	%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2538379

Project Number: PROJ-051861 Report Date: 07/14/25

SAMPLE RESULTS

Lab ID: L2538379-09 Date Collected: 06/17/25 13:30

Client ID: SS-9 @ 5'-6' Date Received: 06/18/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab)								
Solids, Total	85.6		%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN
Moisture	14.4		%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2538379

Project Number: PROJ-051861 Report Date: 07/14/25

SAMPLE RESULTS

Lab ID: L2538379-10 Date Collected: 06/17/25 13:00

Client ID: SS-10 @ 7'-8' Date Received: 06/18/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab)								
Solids, Total	85.5		%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN
Moisture	14.5		%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2538379

Project Number: PROJ-051861 Report Date: 07/14/25

SAMPLE RESULTS

Lab ID: L2538379-11 Date Collected: 06/17/25 13:40

Client ID: SS-11 @ 3'-4' Date Received: 06/18/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	estborough Lab)								
Solids, Total	84.1		%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN
Moisture	15.9		%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2538379

Project Number: PROJ-051861 Report Date: 07/14/25

SAMPLE RESULTS

Lab ID: L2538379-12 Date Collected: 06/17/25 13:55

Client ID: SS-12 @ 6'-7' Date Received: 06/18/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	estborough Lab)								
Solids, Total	85.7		%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN
Moisture	14.3		%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2538379

Project Number: PROJ-051861 Report Date: 07/14/25

SAMPLE RESULTS

Lab ID: L2538379-13 Date Collected: 06/17/25 11:55

Client ID: SS-13 @ 7'-8' Date Received: 06/18/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab)								
Solids, Total	86.8		%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN
Moisture	13.2		%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2538379

Project Number: PROJ-051861 Report Date: 07/14/25

SAMPLE RESULTS

Lab ID: L2538379-14 Date Collected: 06/17/25 12:45

Client ID: SS-14 @ 7'-8' Date Received: 06/18/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab)								
Solids, Total	89.6		%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN
Moisture	10.4		%	0.100	NA	1	-	06/28/25 02:05	121,2540G	JMN



Lab Duplicate Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2538379

Report Date:

Parameter	Native Sam	nple D	uplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated samp	ole(s): 06-14	QC Batch ID:	WG2084591-1	QC Sample:	L2538379-06	Client ID:	SS-6 @ 6'-6.5'
Solids, Total	89.3		89.6	%	0		20
Moisture	10.7		10.4	%	3		20
General Chemistry - Westborough Lab Associated samp	ole(s): 01-05	QC Batch ID:	WG2084605-1	QC Sample:	L2538379-01	Client ID:	SS-1 @ 7'-8'
Solids, Total	89.1		89.5	%	0		20
Moisture	10.9		10.5	%	4		20



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number: L2538379 **Report Date:** 07/14/25

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent B Absent

Container Info	Container Information				Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2538379-01A	Vial MeOH preserved	Α	NA		2.0	Υ	Absent		PA-8260HLW(14)
L2538379-01B	Vial water preserved	Α	NA		2.0	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-01C	Vial water preserved	Α	NA		2.0	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-01D	Plastic 120ml unpreserved	Α	NA		2.0	Υ	Absent		TS(7),MOISTURE(7)
L2538379-01E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.0	Υ	Absent		PB-6020T(180)
L2538379-01F	Glass 60mL/2oz unpreserved	Α	NA		2.0	Υ	Absent		MOISTURE(7)
L2538379-02A	Vial MeOH preserved	Α	NA		2.0	Υ	Absent		PA-8260HLW(14)
L2538379-02B	Vial water preserved	Α	NA		2.0	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-02C	Vial water preserved	Α	NA		2.0	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-02D	Plastic 120ml unpreserved	Α	NA		2.0	Υ	Absent		TS(7),MOISTURE(7)
L2538379-02E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.0	Υ	Absent		PB-6020T(180)
L2538379-02F	Glass 60mL/2oz unpreserved	Α	NA		2.0	Υ	Absent		MOISTURE(7)
L2538379-03A	Vial MeOH preserved	Α	NA		2.0	Υ	Absent		PA-8260HLW(14)
L2538379-03B	Vial water preserved	Α	NA		2.0	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-03C	Vial water preserved	Α	NA		2.0	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-03D	Plastic 120ml unpreserved	Α	NA		2.0	Υ	Absent		TS(7),MOISTURE(7)
L2538379-03E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.0	Υ	Absent		PB-6020T(180)
L2538379-03F	Glass 60mL/2oz unpreserved	Α	NA		2.0	Υ	Absent		MOISTURE(7)
L2538379-04A	Vial MeOH preserved	Α	NA		2.0	Υ	Absent		PA-8260HLW(14)
L2538379-04B	Vial water preserved	Α	NA		2.0	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-04C	Vial water preserved	Α	NA		2.0	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-04D	Plastic 120ml unpreserved	Α	NA		2.0	Υ	Absent		TS(7),MOISTURE(7)



Lab Number: L2538379

Report Date: 07/14/25

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Container Info	Container Information		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	•	Pres	Seal	Date/Time	Analysis(*)
L2538379-04E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.0	Υ	Absent		PB-6020T(180)
L2538379-04F	Glass 60mL/2oz unpreserved	Α	NA		2.0	Υ	Absent		MOISTURE(7)
L2538379-05A	Vial MeOH preserved	В	NA		2.5	Υ	Absent		PA-8260HLW(14)
L2538379-05B	Vial water preserved	В	NA		2.5	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-05C	Vial water preserved	В	NA		2.5	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-05D	Plastic 120ml unpreserved	В	NA		2.5	Υ	Absent		TS(7),MOISTURE(7)
L2538379-05E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		2.5	Υ	Absent		PB-6020T(180)
L2538379-05F	Glass 60mL/2oz unpreserved	В	NA		2.5	Υ	Absent		MOISTURE(7)
L2538379-06A	Vial MeOH preserved	В	NA		2.5	Υ	Absent		PA-8260H(14),PA-8260HLW(14)
L2538379-06B	Vial water preserved	В	NA		2.5	Υ	Absent	19-JUN-25 08:35	PA-8260H(14),PA-8260HLW(14)
L2538379-06C	Vial water preserved	В	NA		2.5	Υ	Absent	19-JUN-25 08:35	PA-8260H(14),PA-8260HLW(14)
L2538379-06D	Plastic 120ml unpreserved	В	NA		2.5	Υ	Absent		TS(7),MOISTURE(7)
L2538379-06E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		2.5	Υ	Absent		PB-6020T(180)
L2538379-06F	Glass 60mL/2oz unpreserved	В	NA		2.5	Υ	Absent		MOISTURE(7)
L2538379-07A	Vial MeOH preserved	В	NA		2.5	Υ	Absent		PA-8260HLW(14)
L2538379-07B	Vial water preserved	В	NA		2.5	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-07C	Vial water preserved	В	NA		2.5	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-07D	Plastic 120ml unpreserved	В	NA		2.5	Υ	Absent		TS(7),MOISTURE(7)
L2538379-07E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		2.5	Υ	Absent		PB-6020T(180)
L2538379-07F	Glass 60mL/2oz unpreserved	В	NA		2.5	Υ	Absent		MOISTURE(7)
L2538379-08A	Vial MeOH preserved	В	NA		2.5	Υ	Absent		PA-8260HLW(14)
L2538379-08B	Vial water preserved	В	NA		2.5	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-08C	Vial water preserved	В	NA		2.5	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-08D	Plastic 120ml unpreserved	В	NA		2.5	Υ	Absent		TS(7),MOISTURE(7)
L2538379-08E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		2.5	Υ	Absent		PB-6020T(180)
L2538379-08F	Glass 60mL/2oz unpreserved	В	NA		2.5	Υ	Absent		MOISTURE(7)
L2538379-09A	Vial MeOH preserved	Α	NA		2.0	Υ	Absent		PA-8260HLW(14)
L2538379-09B	Vial water preserved	Α	NA		2.0	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)



Lab Number: L2538379

Report Date: 07/14/25

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2538379-09C	Vial water preserved	Α	NA		2.0	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-09D	Plastic 120ml unpreserved	В	NA		2.5	Υ	Absent		TS(7),MOISTURE(7)
L2538379-09E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		2.5	Υ	Absent		PB-6020T(180)
L2538379-09F	Glass 60mL/2oz unpreserved	В	NA		2.5	Υ	Absent		MOISTURE(7)
L2538379-10A	Vial MeOH preserved	Α	NA		2.0	Υ	Absent		PA-8260HLW(14)
L2538379-10B	Vial water preserved	Α	NA		2.0	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-10C	Vial water preserved	Α	NA		2.0	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-10D	Plastic 120ml unpreserved	Α	NA		2.0	Υ	Absent		TS(7),MOISTURE(7)
L2538379-10E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.0	Υ	Absent		PB-6020T(180)
L2538379-10F	Glass 60mL/2oz unpreserved	Α	NA		2.0	Υ	Absent		MOISTURE(7)
L2538379-11A	Vial MeOH preserved	В	NA		2.5	Υ	Absent		PA-8260HLW(14)
L2538379-11B	Vial water preserved	В	NA		2.5	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-11C	Vial water preserved	В	NA		2.5	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-11D	Plastic 120ml unpreserved	В	NA		2.5	Υ	Absent		TS(7),MOISTURE(7)
L2538379-11E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		2.5	Υ	Absent		PB-6020T(180)
L2538379-11F	Glass 60mL/2oz unpreserved	В	NA		2.5	Υ	Absent		MOISTURE(7)
L2538379-12A	Vial MeOH preserved	В	NA		2.5	Υ	Absent		PA-8260HLW(14)
L2538379-12B	Vial water preserved	В	NA		2.5	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-12C	Vial water preserved	В	NA		2.5	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-12D	Plastic 120ml unpreserved	В	NA		2.5	Υ	Absent		TS(7),MOISTURE(7)
L2538379-12E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		2.5	Υ	Absent		PB-6020T(180)
L2538379-12F	Glass 60mL/2oz unpreserved	В	NA		2.5	Υ	Absent		MOISTURE(7)
L2538379-13A	Vial MeOH preserved	Α	NA		2.0	Υ	Absent		PA-8260HLW(14)
L2538379-13B	Vial water preserved	Α	NA		2.0	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-13C	Vial water preserved	Α	NA		2.0	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L2538379-13D	Plastic 120ml unpreserved	Α	NA		2.0	Υ	Absent		TS(7),MOISTURE(7)
L2538379-13E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.0	Υ	Absent		PB-6020T(180)
L2538379-13F	Glass 60mL/2oz unpreserved	Α	NA		2.0	Υ	Absent		MOISTURE(7)



Lab Number: L2538379

Report Date: 07/14/25

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Conta	Container Information			Initial	Final	Temp			Frozen	
Conta	iner ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L25383	79-14A	Vial MeOH preserved	В	NA		2.5	Υ	Absent		PA-8260HLW(14)
L25383	79-14B	Vial water preserved	В	NA		2.5	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L25383	79-14C	Vial water preserved	В	NA		2.5	Υ	Absent	19-JUN-25 08:35	PA-8260HLW(14)
L25383	79-14D	Plastic 120ml unpreserved	В	NA		2.5	Υ	Absent		TS(7),MOISTURE(7)
L25383	79-14E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		2.5	Υ	Absent		PB-6020T(180)
L25383	79-14F	Glass 60mL/2oz unpreserved	В	NA		2.5	Υ	Absent		MOISTURE(7)



Project Name: Lab Number: SUNOCO PIPELINE LP (SPLP) L2538379 PROJ-051861 **Report Date: Project Number:** 07/14/25

GLOSSARY

Acronyms

EDL

LOD

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case

estimate of the concentration.

EPA Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content,

where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

MDI - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any

adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile

Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less

than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEO - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF

and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic

peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A -Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit
 (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- **NJ** Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2538379Project Number:PROJ-051861Report Date:07/14/25

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Serial_No:07142513:41

Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

Page 1 of 2

Published Date: 01/24/2025

ID No.:17873

Revision 27

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables)

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

Pre-Qualtrax Document ID: 08-113 Document Type: Form

Serial_No:07142513:41

Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 27

Published Date: 01/24/2025

Page 2 of 2

Certification IDs:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANÁB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

Pace Analytical*	Salarette	M w dample	via the chain of surtody contin neithern found at littles //into.co	-CUSTODY Analytical Request Document challe of autoby continuous acceptabilitimed and acceptating of the Pace Farms and framed at history/independents.com/thatforpion-transland-basin put of Contady in 81204. DOCUMENT - Largeline at Assessed Date.							25	38	379 PA	- El	R!		
ornuany Name GES, Mic.			Contact/Report To: 5to	ophanie Gralo								111111111	inii	- And	H.		
best Address 410 Englewow Blvd, James	TO Entern.	PA 1954	Section Control of the Control of th								BH.	111100					
			(-mail: Sartho@geson)	me sum; gestebool@	pesonline.c	2111											
			CTitt Date-oblingwich	Coor, hidraudh Briefe y	eri. goddfovo	PRINCIPAL DATE											
ustomer Project #			Involce To: Energy Tran	miter		_			_								
roject Name: Sunoco-Pipeline LP (SPLP) v	hiskington	Crossling	Invoice E-Mail:	or Committee of Secretary Security	NO CORP.			_	_		_				Te	*Consider New Little, (2) Nations, (3) This is	
he Collection Info/Facility ID (if applicab											Specify	Containe	Sizm "		10	of the street and (2) because (a) inspection.	PR. PR. LES AND TRY BY THE CHINE
ossing Upper Makifield Township, PA	of second	gron	Psarchase Order # (if ap	plicable):112203289						5	4	6	14	4			
										lifentify	Copia	nor Prese	ryative.	Type***	1	" (II News (2) HAND, I'M SIEGO, AN HOLD I NAMES, (III SEE THE WORLD) AN ARE	MAKEN BE COME
			Charate #							11 10	I	11/10	1.1	1	D	Nine .	one Intracted In
Zim-Colonied Jan 134 146 167 183	_		County/State origin of									ysis Regu	-			Proj. FAgr.	T
to Deliverables:	Hegistator	y Fragues.	(Inv BERA, etc.) crassficable (100						*	1	yan maga	I		-	100	1 1
Lievel is Trevel iii Level IV	No.		Rush (Pre-approval Req		DW PWSH	e in Wall Par	mir. # 01 120	Restric		10.00		L.				Acctions/Plant III	- 4
(TEQUIS	1,12,dir	/ [] Arbity	[[5 day [] Other Mormal	TAT						ra 8260) cuphtha EDC	ш	(EDB)			- 1	4	1
Other	Date Ri	esuits Be	oquested: ASAP		Find titsee	d OT WISHOUT	MIT I fire	1.3 No.		gatoline (EPA 8260) E, cumene, naphths 1,3,5-TM8, EDC		10/	1			Times	1
					Aralysis					Jima (E)	08)	han	1		- 12	5	1
ten (-64, june) (i litera socialis) (biolog West (Set) is ka (n) (car) (i)	William P.W.	Waters Water	(WA) Tradactiff, explained this un	the Personal State (12) are	may \$40, Warre P	System 2003/5	where were	red believe	1000	patoli Cours 1.3,5	60208)	00 (O		w	- 1	Broddy/Language	- 1
Charles Fallered II		I mare	Differen	rissan	1 .			Murdige	& Vene of		(EPA	260	2	olid 40)	- 1		1 1
Customer Sample (D	Matrix	Gortel Grak	tian	Time	Date	Time	# cont.	Cint	talsters	当然社	Lead (1,2-Dibromoethane (EPA 8260D)	Moisture	Total Solids (SM 2540)	-		1
-1 @ 7'-8'	SS	G	6/17/2025	1055		-	-	Plents.	Sheri P		_			-		Sample Comment	ž
-2 @ 5'-6'	SS	G	6/17/2025	1025		10	6	1	5	X	X	X	X	X	4		
-3 @ 5'-6'	55	G	6/17/2025	1000			6	1	5.	X	X	X	X	X	4		
5-4 @ 4'-5'	SS	G	6/17/2025	1040	1		6	1	5	X	X	X	X	X	-		
5-5 @ 7'-7.5'	55	G	6/17/2025	1145	-	-	5	1	5	X	X	X	X	X	-		
5-6 @ 6'-6.5'	55	G	6/17/2025	1210	12	-	6	1	5	X	X	X	X	X	-		
5-7 @ 7'-8'	55	G	6/17/2025	1230			5	1	5	X	X	X	X	X			
i-8 @ 7'-8'	55	G	6/17/2025	1310			6	1	5	X.	X	×	X	X			
5-9 @ 5'-6'	55	G	6/17/2025	1330			-	1	5	X	X	X	X	X	1		
5-10 @ 7'-8'	55	6	6/17/2025	1300		-	6	1	5	X	X.	X	X	X	1		
-11 @ 3'-4'	SS	G	6/17/2025	1340		- 01	6	1	5	×	X	X	Х	X			
-12 @ 6'-7'	55	G	6/17/2025	1355	1	-	6	1	5	X	X	X	Х	X	-		
-13 @ 7'-8' -	55	G	6/17/2025	1155			6	1	5	X	Х	X	X	X	-		
-14 @ 7'-8'	SS	G	6/17/2025	1245		-	6	1	5	X	Χ	X	X	X	1		
therat volvockeri, Ironi Pacar Targer VOCs ti	EPAKNIO BE	E BYEN D	unnedisenses MIDE	المحدد المحدد	0		- 13	-1	5 Cuttomer for	X martis / Epoplar Considera	X X	X.	X	X			
thithalena, 1.1,4 Yelsonthyllomanne, 1.3,5 Tran	of hybrensen	e 3.3-0io	trionmethane, CDC	aprenting -	- CA	me		_	France	Therewoods I		-		-	MAIS		
market 11	-		Desay Toyy	Troop	1 re	-				The state of the s			Carrie		1913	Consider Terror (*O)	Umin
tres / Gus / Gu	55_		6/17/25	1600	_	GE	-F	who		1	- 1	6/15	1/20	/160	n	Tracking 4	
C)01114	1		7/19/25	A		Bornel Bar	-	-		10		could be	1				
person to / Lorent Digestors	1	-	of (O (D)	1040ar	-	1	- France		7	Par	1	6/10	1/2	1 10	48	Tom-end by	Distress E
The Am	1		5/18/25	1858)	100	1	7				(0)	10	10	2	(Decree)) feeling ()	195) 10mm
and so the second secon			(3-18)			heeswerts/	XIII.	hon	u L	reen		Form/Hour	18	2025 2	37	V Farm	I f
Anthony Gree	302		17 25 KK	6191	10	19	4	73	10	25007.0		chi	10	A		-	
11/1			4 200	11/	()	16	1	4				40	16	1 424	(0)		
11 11-1																	

Page 80

Data Path : K:\VOA129\2025\250630N\

Data File : V29250630N23.D

Acq On : 01 Jul 2025 04:03 am

Operator : VOA129:JIC

Sample : L2538379-05,31,5.14,5,,C,32.38,38.02,0.50

Misc : WG2085858, ICAL22427

ALS Vial : 23 Sample Multiplier: 1

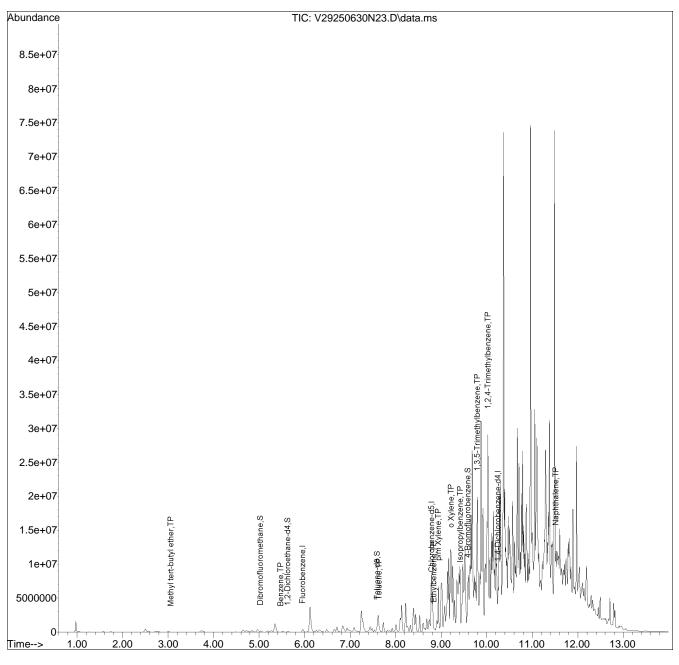
Quant Time: Jul 01 14:30:19 2025

Quant Method: K:\VOA129\2025\250630N\V129_250626A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Fri Jun 27 09:03:12 2025

Response via : Initial Calibration



V129_250626A_8260.m Tue Jul 01 14:58:09 2025

Data Path : K:\VOA131\2025\250629A\

Data File : V31250629A21.D

Acq On : 29 Jun 2025 06:54 pm

Operator : VOA131:JIC

Sample : 12538379-06,31,4.97,5,,b,32.59,37.81,0.25

Misc : WG2085305,ICAL22246 ALS Vial : 21 Sample Multiplier: 1

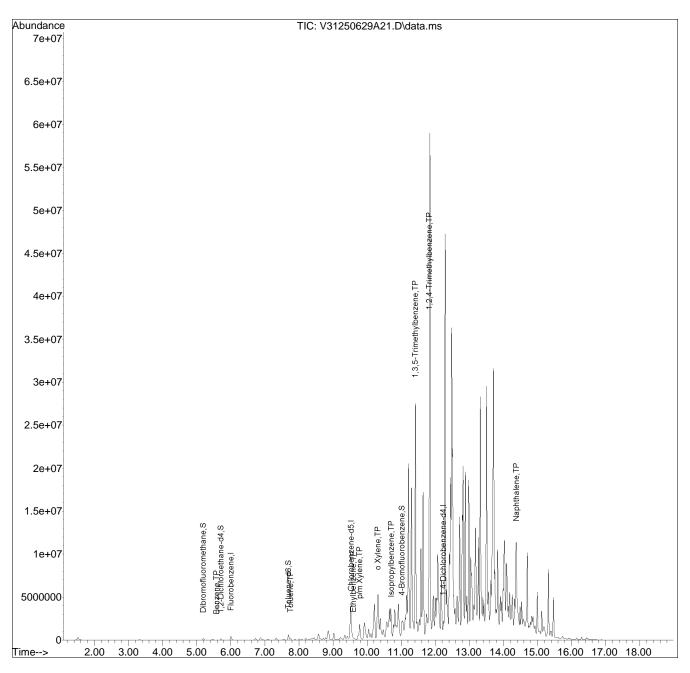
Quant Time: Jun 30 08:29:16 2025

Quant Method: K:\VOA131\2025\250629A\V131_250502A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Sat May 03 08:26:58 2025

Response via : Initial Calibration



V131_250502A_8260.m Mon Jun 30 12:27:07 2025

Data Path : K:\VOA131\2025\250629A\

Data File : V31250629A22.D

Acq On : 29 Jun 2025 07:16 pm

Operator : VOA131:JIC

Sample : 12538379-07,31,5.40,5,,b,32.38,38.03,0.25

Misc : WG2085305,ICAL22246 ALS Vial : 22 Sample Multiplier: 1

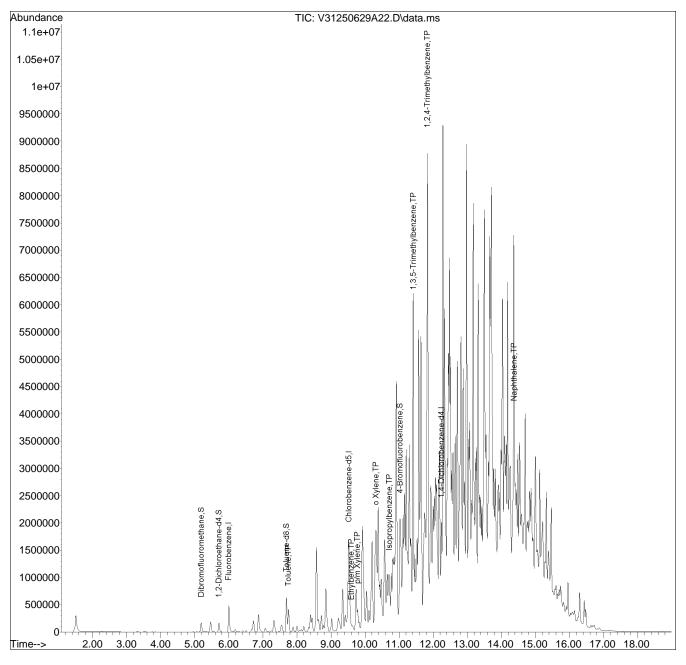
Quant Time: Jun 30 08:29:27 2025

Quant Method: K:\VOA131\2025\250629A\V131_250502A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Sat May 03 08:26:58 2025

Response via : Initial Calibration



V131_250502A_8260.m Mon Jun 30 12:27:13 2025

Data Path : K:\VOA131\2025\250629A\

Data File: V31250629A23.D

Acq On : 29 Jun 2025 07:38 pm

Operator : VOA131:JIC

Sample : 12538379-10,31h,5.22,5,0.100,,a,29.98,35.70,0

Misc : WG2085307, ICAL22246

ALS Vial : 23 Sample Multiplier: 1

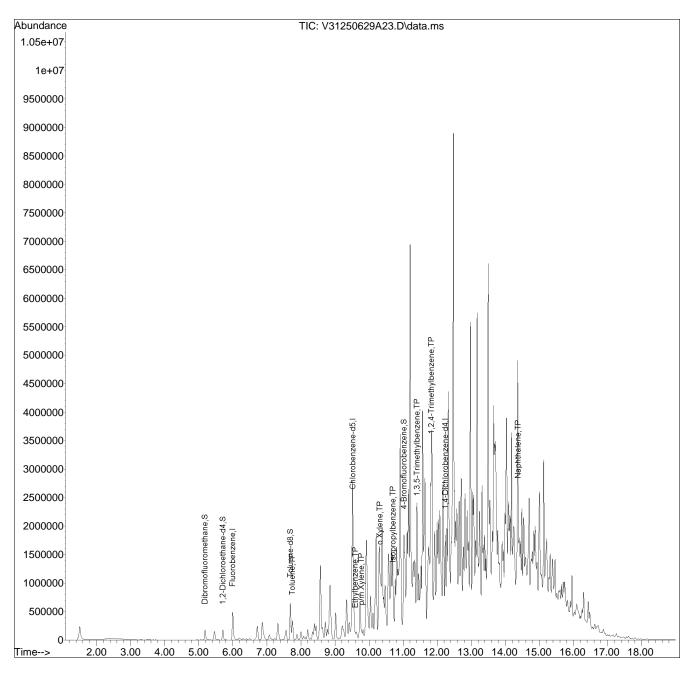
Quant Time: Jun 30 06:05:41 2025

Quant Method: K:\VOA131\2025\250629A\V131_250502A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Sat May 03 08:26:58 2025

Response via : Initial Calibration



V131_250502A_8260.m Mon Jun 30 12:27:19 2025

Data Path : K:\VOA131\2025\250629A\

Data File : V31250629A18.D

Acq On : 29 Jun 2025 05:47 pm

Operator : VOA131:JIC

Sample : 12538379-13,31,5.62,5,,b,32.72,38.59,0.25

: WG2085305, ICAL22246 Misc

ALS Vial : 18 Sample Multiplier: 1

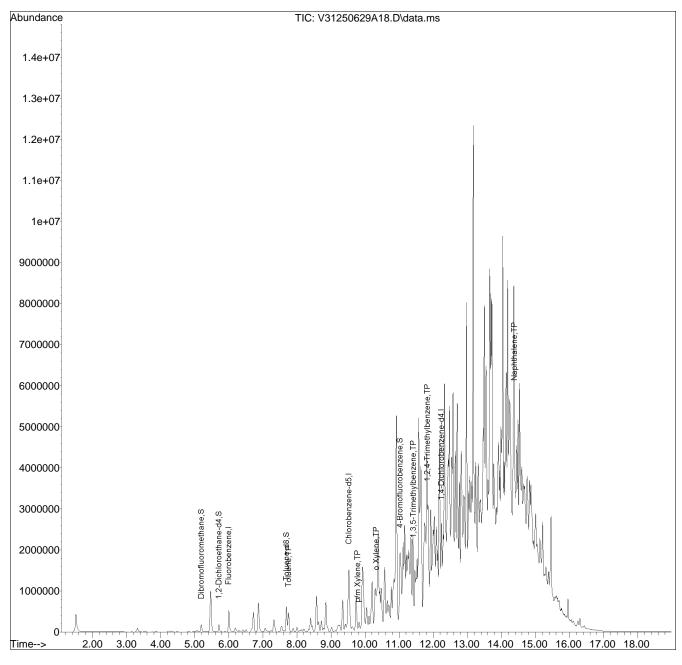
Quant Time: Jun 30 08:27:31 2025

Quant Method: K:\VOA131\2025\250629A\V131_250502A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Sat May 03 08:26:58 2025

Response via : Initial Calibration



V131_250502A_8260.m Mon Jun 30 12:26:51 2025

Data Path : K:\VOA131\2025\250629A\

Data File: V31250629A25.D

Acq On : 29 Jun 2025 08:23 pm

Operator : VOA131:JIC

Sample : 12538379-14,31h,5.01,5,0.100,,a,30.06,35.57,0

Misc : WG2085307, ICAL22246

ALS Vial : 25 Sample Multiplier: 1

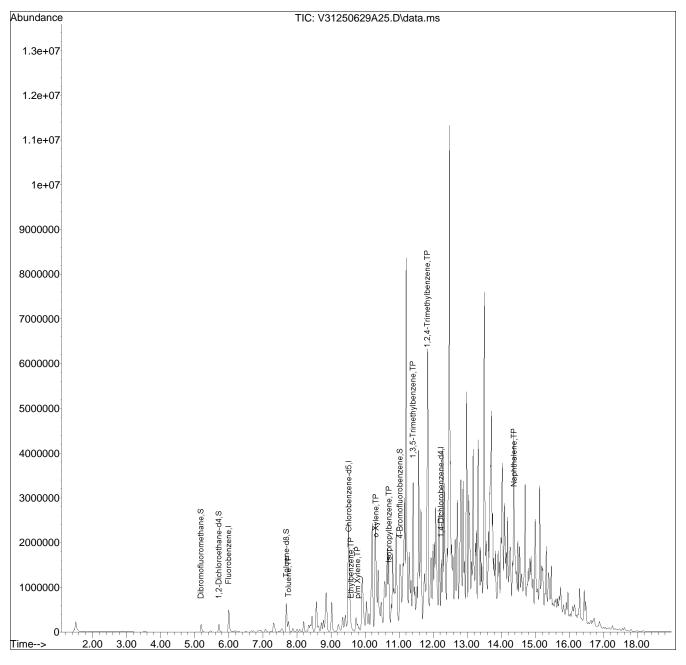
Quant Time: Jun 30 08:30:31 2025

Quant Method: K:\VOA131\2025\250629A\V131_250502A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Sat May 03 08:26:58 2025

Response via : Initial Calibration



V131_250502A_8260.m Mon Jun 30 12:27:29 2025



Sample Delivery Group Summary

Pace Job Number : L2538379 Received : 18-JUN-2025 Reviewer : Monique Irving

Account Name : Groundwater & Environmental Service

Project Number : PROJ-051861

Project Name : SUNOCO PIPELINE LP (SPLP)

Delivery Information

Samples Delivered By: Pace Courier

Chain of Custody : Present

Cooler Information

Cooler Seal/Seal# Preservation Temperature(°C) Additional Information

A Absent/ Ice 2.0 B Absent/ Ice 2.5

Condition Information

1) All samples on COC received?

2) Extra samples received?

3) Are there any sample container discrepancies?

4) Are there any discrepancies between COC & sample labels?

5) Are samples in appropriate containers for requested analysis? YES

6) Are samples properly preserved for requested analysis? YES

7) Are samples within holding time for requested analysis? YES

8) All sampling equipment returned?

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?



ANALYTICAL REPORT

Lab Number: L2515726

Client: Groundwater & Environmental Services, In

410 Eagleview Blvd Exton, PA 19341

ATTN: Stephanie Grillo Phone: (641) 458-1077

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified Report Date: 03/21/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

Lab Number:

L2515726

Report Date:

03/21/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2515726-01	RW-1@1'-2'	SOIL	WASHINGTON CROSSING, PA	03/18/25 14:40	03/18/25
L2515726-02	RW-1@4'-5'	SOIL	WASHINGTON CROSSING, PA	03/18/25 14:45	03/18/25



Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2515726Project Number:Not SpecifiedReport Date:03/21/25

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Lelly Melf Kelly O'Neill

Authorized Signature:

Title: Technical Director/Representative

Date: 03/21/25

Pace

ORGANICS



VOLATILES



L2515726

03/21/25

03/18/25

None

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

SAMPLE RESULTS

Date Collected: 03/18/25 14:40

Lab Number:

Report Date:

Date Received:

Field Prep:

Lab ID: L2515726-01

Client ID: RW-1@1'-2'

Sample Location: WASHINGTON CROSSING, PA

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 03/21/25 13:22

Analyst: JIC Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Wes	stborough Lab					
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00023	1
Benzene	ND		mg/kg	0.00056	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00029	1
Toluene	ND		mg/kg	0.0011	0.00061	1
1,2-Dibromoethane	ND		mg/kg	0.00056	0.00033	1
Ethylbenzene	ND		mg/kg	0.0011	0.00016	1
p/m-Xylene	ND		mg/kg	0.0022	0.00063	1
o-Xylene	ND		mg/kg	0.0011	0.00033	1
Xylenes, Total	ND		mg/kg	0.0011	0.00033	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0022	0.00022	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0022	0.00038	1
Naphthalene	ND		mg/kg	0.0045	0.00073	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	87	70-130	
4-Bromofluorobenzene	84	70-130	
Dibromofluoromethane	96	70-130	



L2515726

03/21/25

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

SAMPLE RESULTS

Date Collected: 03/18/25 14:45

Lab ID: L2515726-02 Client ID: RW-1@4'-5'

Sample Location: WASHINGTON CROSSING, PA

Date Received: 03/18/25 Field Prep: None

Lab Number:

Report Date:

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 03/21/25 13:48

Analyst: JIC Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low -	Westborough Lab					
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00024	1
Benzene	ND		mg/kg	0.00059	0.00020	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00030	1
Toluene	ND		mg/kg	0.0012	0.00064	1
1,2-Dibromoethane	ND		mg/kg	0.00059	0.00035	1
Ethylbenzene	ND		mg/kg	0.0012	0.00017	1
p/m-Xylene	ND		mg/kg	0.0024	0.00066	1
o-Xylene	ND		mg/kg	0.0012	0.00034	1
Xylenes, Total	ND		mg/kg	0.0012	0.00034	1
Isopropylbenzene	ND		mg/kg	0.0012	0.00013	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0024	0.00023	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0024	0.00040	1
Naphthalene	ND		mg/kg	0.0047	0.00077	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	88	70-130	
4-Bromofluorobenzene	87	70-130	
Dibromofluoromethane	97	70-130	



L2515726

Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number:

Project Number: Not Specified Report Date: 03/21/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 03/21/25 11:34

Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL	
olatile Organics by EPA 5035	Low - Westboro	ugh Lab fo	r sample(s):	01-02	Batch: WG2043574-5	5
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020	
Benzene	ND		mg/kg	0.00050	0.00017	
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	
Toluene	ND		mg/kg	0.0010	0.00054	
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029	
Ethylbenzene	ND		mg/kg	0.0010	0.00014	
p/m-Xylene	ND		mg/kg	0.0020	0.00056	
o-Xylene	ND		mg/kg	0.0010	0.00029	
Xylenes, Total	ND		mg/kg	0.0010	0.00029	
Isopropylbenzene	ND		mg/kg	0.0010	0.00011	
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019	
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033	
Naphthalene	ND		mg/kg	0.0040	0.00065	

Surrogate	%Recovery	Acceptance Qualifier Criteria
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	85	70-130
Dibromofluoromethane	91	70-130



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

Lab Number:

L2515726

Report Date:

03/21/25

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
olatile Organics by EPA 5035 Low -	Westborough Lab	Associated sa	mple(s): 01-02	Batch:	WG2043574-3	WG2043574-	4		
Methyl tert butyl ether	95		91		66-130	4		30	
Benzene	86		83		70-130	4		30	
1,2-Dichloroethane	99		96		70-130	3		30	
Toluene	82		80		70-130	2		30	
1,2-Dibromoethane	90		90		70-130	0		30	
Ethylbenzene	85		84		70-130	1		30	
p/m-Xylene	88		86		70-130	2		30	
o-Xylene	88		87		70-130	1		30	
Isopropylbenzene	87		86		70-130	1		30	
1,3,5-Trimethylbenzene	86		84		70-130	2		30	
1,2,4-Trimethylbenzene	86		85		70-130	1		30	
Naphthalene	106		108		70-130	2		30	

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria	
1,2-Dichloroethane-d4	93	94	70-130	
Toluene-d8	88	89	70-130	
4-Bromofluorobenzene	91	91	70-130	
Dibromofluoromethane	92	92	70-130	



METALS



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2515726Project Number:Not SpecifiedReport Date:03/21/25

SAMPLE RESULTS

 Lab ID:
 L2515726-01
 Date Collected:
 03/18/25 14:40

 Client ID:
 RW-1@1'-2'
 Date Received:
 03/18/25

Sample Location: WASHINGTON CROSSING, PA Field Prep: None

Sample Depth:

Matrix: Soil Percent Solids: 82%

Dilution Date Date Prep Analytical
Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analysi

Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analyst

Total Metals - Mansfield Lab

Lead, Total ND mg/kg 0.71 0.06 10 03/20/25 14:31 03/20/25 18:13 EPA 3050B 1,6020B NTB



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2515726Project Number:Not SpecifiedReport Date:03/21/25

SAMPLE RESULTS

 Lab ID:
 L2515726-02
 Date Collected:
 03/18/25 14:45

 Client ID:
 RW-1@4'-5'
 Date Received:
 03/18/25

Sample Location: WASHINGTON CROSSING, PA Field Prep: None

Sample Depth:

Matrix: Soil Percent Solids: 82%

Dilution Date Date Prep Analytical

Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Analyst

Parameter Result Qualifier Units MDL Factor Prepared Analyzed Method RL**Analyst** Total Metals - Mansfield Lab Lead, Total 14 mg/kg 0.73 0.06 10 03/20/25 14:31 03/20/25 18:36 EPA 3050B 1,6020B NTB



Project Name: SUNOCO PIPELINE LP (SPLP)

Lab Number: L2515726 **Project Number:** Not Specified

Report Date: 03/21/25

Method Blank Analysis Batch Quality Control

Dilution Date Date Analytical Method Analyst **Result Qualifier Factor Prepared** Analyzed **Parameter Units** RLMDL Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG2043052-1 Lead, Total ND mg/kg 0.60 0.05 10 03/20/25 18:04 1,6020B NTB 03/20/25 14:31

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP) Not Specified

Project Number:

Lab Number:

L2515726

Report Date:

03/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Total Metals - Mansfield Lab Associated sar	mple(s): 01-02	Batch: W	G2043052-2						
Lead, Total	90		-		80-120	-		20	



Matrix Spike Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

Lab Number:

L2515726

Report Date:

03/21/25

Parameter Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recove Qual Limits	,	RPD _{Ial} Limits
Total Metals - Mansfield Lab	Associated san	nple(s): 01-02	QC Ba	tch ID: WG204	3052-3	QC San	nple: L2515726-	01 Client ID:	RW-1@1'-2'	
Lead, Total	ND	51.4	57	111		-	-	75-125	-	20



L2515726

Lab Duplicate Analysis

Batch Quality Control

Lab Number: **Project Name:** SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified Report Date: 03/21/25

Parameter	Native Sample	Duplicate S	Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-0)2 QC Batch ID:	WG2043052-4 Q	C Sample:	L2515726-01	Client ID:	RW-1@1'-2	2'
Lead, Total	ND	8.9		mg/kg	NC		20



INORGANICS & MISCELLANEOUS



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2515726

Project Number: Not Specified Report Date: 03/21/25

SAMPLE RESULTS

Lab ID: L2515726-01 Date Collected: 03/18/25 14:40

Client ID: RW-1@1'-2' Date Received: 03/18/25 Sample Location: WASHINGTON CROSSING, PA Field Prep: None

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	81.5		%	0.100	NA	1	-	03/19/25 20:56	121,2540G	SJB



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2515726

Project Number: Not Specified Report Date: 03/21/25

SAMPLE RESULTS

Lab ID: L2515726-02 Date Collected: 03/18/25 14:45

Client ID: RW-1@4'-5' Date Received: 03/18/25 Sample Location: WASHINGTON CROSSING, PA Field Prep: None

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	81.8		%	0.100	NA	1	-	03/19/25 20:56	121,2540G	SJB



Lab Duplicate Analysis

Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

Lab Number:

L2515726

Report Date:

03/21/25

Parameter	Native Sam	ple D	uplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID:	WG2042688-1	QC Sample:	L2515418-02	Client ID:	DUP Sample
Solids, Total	84.6		85.2	%	1		20



SUNOCO PIPELINE LP (SPLP) Lab Number: L2515726 Project Number: Not Specified

Report Date: 03/21/25

Sample Receipt and Container Information

YES Were project specific reporting limits specified?

Cooler Information

Project Name:

Occide information	
Cooler	Custody Seal
A	Absent
В	Absent
С	Absent
D	Absent
Е	Absent

Container Information			Initial Final		Temp			Frozen		
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)	
L2515726-01A	Vial MeOH preserved	Α	NA		3.3	Υ	Absent		PA-8260HLW(14)	
L2515726-01B	Vial water preserved	Α	NA		3.3	Υ	Absent	19-MAR-25 06:15	PA-8260HLW(14)	
L2515726-01C	Vial water preserved	Α	NA		3.3	Υ	Absent		ARCHIVE()	
L2515726-01D	Plastic 120ml unpreserved	Α	NA		3.3	Υ	Absent		TS(7)	
L2515726-01E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.3	Υ	Absent		PB-6020T(180)	
L2515726-02A	Vial MeOH preserved	Α	NA		3.3	Υ	Absent		PA-8260HLW(14)	
L2515726-02B	Vial water preserved	Α	NA		3.3	Υ	Absent	19-MAR-25 06:15	PA-8260HLW(14)	
L2515726-02C	Vial water preserved	Α	NA		3.3	Υ	Absent	19-MAR-25 06:15	PA-8260HLW(14)	
L2515726-02D	Plastic 120ml unpreserved	Α	NA		3.3	Υ	Absent		TS(7)	
L2515726-02E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.3	Υ	Absent		PB-6020T(180)	

Container Comments

Container Received Empty. L2515726-01C



Project Name: Lab Number: SUNOCO PIPELINE LP (SPLP) L2515726 **Report Date: Project Number:** Not Specified 03/21/25

GLOSSARY

Acronyms

LCSD

LOD

MS

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

Laboratory Control Sample Duplicate: Refer to LCS.

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case

estimate of the concentration. **EPA**

Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content,

where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

> Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

MDI - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

> - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile

Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEO - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF

and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic

peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A -Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
 of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- **NJ** Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Serial_No:03212518:22

Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

Revision 27

Published Date: 01/24/2025

Page 1 of 2

ID No.:17873

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables)

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

Pre-Qualtrax Document ID: 08-113 Document Type: Form

Serial_No:03212518:22

Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 27

Published Date: 01/24/2025

Page 2 of 2

Certification IDs:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

Pace Pace* Location Request	ted (City/S	tate):	СН	AIN-OF-C	USTODY	Analytical R	tequest I	Docum	nent	1		TO THE REAL PROPERTY.	松 園	- [ES	5726 – PA	-1	ER
Company Name: GES, Inc. 1104 Address: 410 Eagleview Blvd, Suite 110 Exton, PA 19341			Housi E-Mail:	SGrillo@ge	-1077x306 rsonline.com							Sc	Scan QR Code for instructions					
Triplet Name: Sunoco Pipeline LP (SPLP) Washington Crossing Sunoco P					as@gesonline.co	sliné.com						3	Mastily Contr	inor Fres	ontainer Size ** or Freservative Type***			**Continue liter (17 1), [2] 500 m, (f) 200 m. (f) 276 m, (5) 100 m. [4 45 m. val. (7) 2 m. val. (7) 2 m. val. (7) 1 00 color. (8) 2 m. val. (8) 00 color. (8) 400 m. val. (8) 00 color. (8) 400 m. val. (8) 00 color. (8) 400 m. val. (8) 2 m. val. (8) 10 m. val. (
			County applicab) 7 Day C	/State origin of in		DW PWSID For WW Person A st applicable. Field Filtered [18 applicable] Free Files Filtered [18 applicable]					3 0	8260 880Med7		iyahi (Bean	ested			Prop. Mgr. Prop. Mgr. Act Num. / Clent ID: Table 8: Profile / Tempone: Fridge / Bottle On. 40)
RW-1 (2 1-7	Mutrix *	Grab G	31	One Poly S	Time 1940	2/19/2025	Time	# Cont.	Result 1	- 6	(list bek	Lead 4	1	1		4		Sample Comment
EW-16 4'-5'	SS	6	3	18 25	1 1						X	X						
Additional Instructions from Page*: VOCs by EPA 524.2 list: BTEX, Isopropy 1,2,4-Trimothylbenzene, 1,3,5-Trimethylb	/lbenzene, /lbenzene, /l	ATBE, 2-Dich	Naph	lhalene, hane	Collected By Printed Name	DAN SIN	10				patrimer Delere		/ Special Co		/ Pressible		WK (70)	Commendations (CI 1) On Ica
netrogrammed by/Computer, Crisical Land	/	3	7.18	25/17	Q(D)	Temperature (Company) Temperature (Company) Temperature (Company)		0	oen.	1	ac		3//	18	2025	25	-	How () on Person [Country



ANALYTICAL REPORT

Lab Number: L2516006

Client: Groundwater & Environmental Services, In

410 Eagleview Blvd Exton, PA 19341

ATTN: Stephanie Grillo Phone: (641) 458-1077

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified Report Date: 03/24/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

Lab Number:

L2516006

Report Date:

03/24/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2516006-01	RW-1@10'-11'	SOIL	WASHINGTON CROSSING, PA	03/19/25 14:55	03/19/25



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2516006Project Number:Not SpecifiedReport Date:03/24/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2516006Project Number:Not SpecifiedReport Date:03/24/25

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Title: Technical Director/Representative Date: 03/24/25

Melissa Sturgis Melissa Sturgis

Pace

ORGANICS



VOLATILES



L2516006

03/24/25

03/19/25

SUNOCO PIPELINE LP (SPLP) **Project Name:**

Project Number: Not Specified

SAMPLE RESULTS

03/19/25 14:55

Lab Number:

Report Date:

Date Received:

Lab ID: L2516006-01 Date Collected:

Client ID: RW-1@10'-11'

Sample Location: WASHINGTON CROSSING, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Analytical Method: 1,8260D Analytical Date: 03/24/25 02:37

Analyst: AJK 95% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 L	ow - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0019	0.00020	1	
Benzene	0.00025	J	mg/kg	0.00048	0.00016	1	
1,2-Dichloroethane	ND		mg/kg	0.00097	0.00025	1	
Toluene	ND		mg/kg	0.00097	0.00053	1	
1,2-Dibromoethane	ND		mg/kg	0.00048	0.00028	1	
Ethylbenzene	ND		mg/kg	0.00097	0.00014	1	
p/m-Xylene	ND		mg/kg	0.0019	0.00054	1	
o-Xylene	ND		mg/kg	0.00097	0.00028	1	
Xylenes, Total	ND		mg/kg	0.00097	0.00028	1	
Isopropylbenzene	ND		mg/kg	0.00097	0.00010	1	
1,3,5-Trimethylbenzene	ND		mg/kg	0.0019	0.00019	1	
1,2,4-Trimethylbenzene	ND		mg/kg	0.0019	0.00032	1	
Naphthalene	ND		mg/kg	0.0039	0.00063	1	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	113		70-130	
Toluene-d8	96		70-130	
4-Bromofluorobenzene	134	Q	70-130	
Dibromofluoromethane	108		70-130	



L2516006

Lab Number:

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified Report Date: 03/24/25

Method Blank Analysis Batch Quality Control

Analytical Method:

03/24/25 02:11

1,8260D

Analyst: AJK

Analytical Date:

Parameter	Result	Qualifier	Units	RL	MDL
olatile Organics by EPA 5035 Lo	w - Westboro	ugh Lab fo	r sample(s):	01 Batch:	WG2044491-5
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Toluene	ND		mg/kg	0.0010	0.00054
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033
Naphthalene	ND		mg/kg	0.0040	0.00065

		Acceptance
Surrogate	%Recovery (Qualifier Criteria
4.2 Dishlorosthana d4	400	70.420
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	102	70-130
Dibromofluoromethane	100	70-130



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

Lab Number: L2516006

Report Date: 03/24/25

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	/ RPD	Qual	RPD Limits
olatile Organics by EPA 5035 Low	- Westborough Lab	Associated s	ample(s): 01	Batch:	WG2044491-3	WG2044491-4		
Methyl tert butyl ether	111		114		66-130	3		30
Benzene	101		105		70-130	4		30
1,2-Dichloroethane	112		113		70-130	1		30
Toluene	80		81		70-130	1		30
1,2-Dibromoethane	95		98		70-130	3		30
Ethylbenzene	80		82		70-130	2		30
p/m-Xylene	85		86		70-130	1		30
o-Xylene	87		89		70-130	2		30
Isopropylbenzene	78		80		70-130	3		30
1,3,5-Trimethylbenzene	80		83		70-130	4		30
1,2,4-Trimethylbenzene	81		84		70-130	4		30
Naphthalene	91		92		70-130	1		30

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107	108	70-130
Toluene-d8	92	92	70-130
4-Bromofluorobenzene	100	101	70-130
Dibromofluoromethane	104	102	70-130



METALS



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2516006 **Project Number:** Not Specified **Report Date:** 03/24/25

SAMPLE RESULTS

Lab ID: Date Collected: L2516006-01 03/19/25 14:55 Client ID: RW-1@10'-11' Date Received: 03/19/25

Sample Location: WASHINGTON CROSSING, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil 95% Percent Solids:

Prep Dilution Date Date **Analytical** Method Result Qualifier Units MDL Factor Prepared Analyzed Method RL

Parameter Analyst Total Metals - Mansfield Lab Lead, Total 14 mg/kg 0.61 0.05 10 03/20/25 14:31 03/20/25 20:31 EPA 3050B 1,6020B NTB



Project Name: SUNOCO PIPELINE LP (SPLP)

Lab Number: L2516006

Project Number: Not Specified Report Date: 03/24/25

Method Blank Analysis Batch Quality Control

Dilution Date Date Analytical Method Analyst **Result Qualifier Factor Prepared** Analyzed **Parameter Units** RLMDL Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2043052-1 Lead, Total ND mg/kg 0.60 0.05 10 03/20/25 18:04 1,6020B NTB 03/20/25 14:31

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Lab Number: L2516006

Project Number: Not Specified

Report Date: 03/24/25

Parameter	LCS %Recovery Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sam	ple(s): 01 Batch: WG2	2043052-2					
Lead, Total	90	-		80-120	-		20



Matrix Spike Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

Lab Number:

L2516006

Report Date:

03/24/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		ecovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab	Associated sam	nple(s): 01	QC Batch	ID: WG204305	2-3 C	QC Sample	e: L2515726-01	Client II	D: MS Sa	ample		
Lead, Total	ND	51.4	57	111		-	-		75-125	-		20



L2516006

Lab Number:

Lab Duplicate Analysis

Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Batch Quality

Project Number: Not Specified **Report Date:** 03/24/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01	QC Batch ID: WG20430	052-4 QC Sample: I	L2515726-01	Client ID:	OUP Sample	
Lead, Total	ND	8.9	mg/kg	NC		20



INORGANICS & MISCELLANEOUS



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2516006

Project Number: Not Specified Report Date: 03/24/25

SAMPLE RESULTS

Lab ID: L2516006-01 Date Collected: 03/19/25 14:55

Client ID: RW-1@10'-11' Date Received: 03/19/25
Sample Location: WASHINGTON CROSSING, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result Q	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	95.0		%	0.100	NA	1	-	03/20/25 14:49	121,2540G	KJL



Lab Duplicate Analysis

Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified Lab Number:

L2516006

Report Date:

03/24/25

Parameter	Native Sample	Duplicate Sam	ple Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01 QC Batch ID:	WG2043090-1	QC Sample: L25	15411-01	Client ID:	DUP Sample
Solids, Total	96.4	96.1	%	0		20



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified Report Date: 03/24/25

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent

Container Info	ormation		Initial	Final	Temp			Frozen				
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)			
L2516006-01A	Vial MeOH preserved	Α	NA		3.3	Υ	Absent		PA-8260HLW(14)			
L2516006-01B	Vial water preserved	Α	NA		3.3	Υ	Absent	20-MAR-25 06:27	PA-8260HLW(14)			
L2516006-01C	Vial water preserved	Α	NA		3.3	Υ	Absent	20-MAR-25 06:27	PA-8260HLW(14)			
L2516006-01D	Plastic 120ml unpreserved	Α	NA		3.3	Υ	Absent		TS(7)			
L2516006-01E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.3	Υ	Absent		PB-6020T(180)			



Project Name: Lab Number: SUNOCO PIPELINE LP (SPLP) L2516006 **Report Date: Project Number:** Not Specified 03/24/25

GLOSSARY

Acronyms

LOQ

MS

NP

RPD

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

> - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

> Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

MDI - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

> - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile

Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEO - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2516006Project Number:Not SpecifiedReport Date:03/24/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert but

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benza(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A -Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
 of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2516006Project Number:Not SpecifiedReport Date:03/24/25

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- **NJ** Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2516006Project Number:Not SpecifiedReport Date:03/24/25

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 27

Page 1 of 2

Published Date: 01/24/2025

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. **EPA 8270E:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables)

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

Document Type: Form Pre-Qualtrax Document ID: 08-113

Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 27

Published Date: 01/24/2025

Page 2 of 2

Certification IDs:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

125/6606

Pace Analytical"		hischain of ons found at	custody constit t: https://info.go ody is a LEGAL T	utesacknowle acelabs.com/ OCLUMENT - 0	dgment and at hubfi/pas-stani Complete all rel	ceptance of t dard-herms, pd evant fields	he Pace Term	neard						1 &				
Company Name: GES, Inc.	magn. D.	41.00			Stephanie (-110±1											
Street Address: 410 Eagleview Blvd, Suite 110 Exton, PA 19341		9341			077x3064 /					1								
					online.com;					1								
					Locen; laternal		Millionescript	s, com; wester	gesorane.com	1								
Customer Project #:			invoice To: ges-invoinces@gesonline.com															
Project Name: Sunaco Pipeline LP (SPLP) W	ashington Cross	ing	Invoice E-	Mail: ges-i	nvoinces@	gesonline.	com				Sp	ecify C	ontain	er Size	**		Container Star. (1) 11, (2) 500 mt. (3) 250 mt., (4) 25 mt., (5) 100 mt., (6) 40 mt. vist, (7) EnCore, (8)	
Site Collection Info/Facility ID (if applicable Crossing, PA	e): Washington		Purchase (Order # (if	applicable)	0225040	06-160			6	6	3	e Dence	months	e Type**	10	arraCore, (9) Other ** (1) None, (2) HNO3, (3) H25O4, (4) HCJ, (5) Nat	
			Quote #:	_		_		_	_		8	2	r Prese	rvativi	e Type-	_) 40 mL vial, (7) NaH5O4, (8) Soci. Thiosulfate, (9) Enrish: Acid, (10) MeOH, (11) Other	
Time Zone Collected: [] AK [] PT [] MT [] CT [X] ET		-	-	ate origin	of sample(sl: PA			_	4			sis Req	onet and	_	-	Pros Mer.	
Data Deliverables:	Regulatory	Program (DW, RCRA, etc.)			39.771						Analy	sis wedi	rested		\dashv	E S	
[] Level II [] Level III [] Level IV	Rust	n (Pre-ar	proval Rec	uired):	DW PWSID #	or WW Permit	t # waapplic wb	do:		0	-	952				- 1	AcctNum/Clene1D 2	
[X] EQUIS	The second second	1000	y [5 day [4					WY	8 d 4	#7				- 1	8	
			Requested: ASAP Field Filtered (# applicable): [X] Yes [] No					H.	37	T.				- 10	Table II			
			Analysis: Lead					(Entra Sept)	#	1 0	- 5			DOTTING TO STATE OF THE PARTY O				
*Matrix Codes (Insert in Matrix box holyw) Drinking Water (DW), Gr (200), Sectionne (SE), South-Carl, Caroli (C)	numi Weer (GM), West	With TWW	, Preduct (P), Sei	0/50Mr (55), CB (1	OC), Wips (MP), Ti	ence (Th), Bernes	₩(B),Vapor(V			VOCs (1,2-Dibromoethane (EDB)	PATAT.	Solid				Profile/Template	
Customer Sample ID	Customer Sample ID Matric Comp/		Collected (Start) Date Time		Comp		# cont. Number & Type Containers Plastic G			arget	Target V 1,2-Dib (FDA 90) Lead (4)					-	Sample Comment	
RU-10 10-11	SS	G	3/19/25	1455	-	1	5,8	1	84	X	K	×	×				Sangre Comment &	
														-				
Additional Instructions from Pace: Target VOCs	by EPA 524.2 list	: BTEX.	_	Collected By:			1	1	Customer R	lamarks/	SpecialCo	anditions/	Prosible i	amude				
Isopropylbenzene, MTBE, Naphthalene, 1,2,4-Ti Trimethylbenzene, 1.2 Dichloroethane	State of the state	2000.70		Signature			1		# coolers	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		meter (D)	1		on Factor Te	mp(*Ci	Corrected Tamp (*C) on ice	
ReInqualried by / Company (Signature	-/0	ES	3/19/	25 1	520	fincely del By	Ampany (S	Char)	19	0/3	3	3	19	125	15	2	C fracking #	
Relinquished By / Company (Signature	PACE		719/-	25	1840	Bershood in	/Company (S	grature)					Date/In	115	7 1	340	Delivered By:	
	0		Cata/Engla	19		CS	Intho	nu l	reen.				MA	119	2025	22:00		
Helinquished By / Company (Signature	ony Gree		Deta/Time	1		Received By	Aprilpany (5)	eredure)	0.00				Date/No	Sin.				



ANALYTICAL REPORT

Lab Number: L2532282

Client: Groundwater & Environmental Services, In

410 Eagleview Blvd Exton, PA 19341

ATTN: Stephanie Grillo Phone: (641) 458-1077

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861 Report Date: 06/02/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).



Serial_No:06022516:10

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2532282

Report Date:

06/02/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2532282-01	RW-2-0708	SOIL	E-25060-RL-25300050	05/20/25 10:00	05/22/25



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2532282Project Number:PROJ-051861Report Date:06/02/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.



Serial_No:06022516:10

Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2532282Project Number:PROJ-051861Report Date:06/02/25

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

The water-preserved VOA vials for Volatile Organics Low-Level analysis were received at the laboratory beyond the 48 hour holding time required for freezing. The client was notified and the results of the analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Title: Technical Director/Representative Date: 06/02/25

Melissa Sturgis Melissa Sturgis

Pace

ORGANICS



VOLATILES



Serial_No:06022516:10

L2532282

06/02/25

SUNOCO PIPELINE LP (SPLP) **Project Name:**

L2532282-01

Project Number: PROJ-051861

SAMPLE RESULTS

Date Collected: 05/20/25 10:00

Date Received: 05/22/25

Lab Number:

Report Date:

Client ID: RW-2-0708 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Lab ID:

Matrix: Soil Analytical Method: 1,8260D Analytical Date: 05/30/25 13:52

Analyst: JIC 77% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 Le	ow - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0031	0.00031	1	
Benzene	ND		mg/kg	0.00077	0.00026	1	
1,2-Dichloroethane	ND		mg/kg	0.0015	0.00040	1	
Toluene	ND		mg/kg	0.0015	0.00084	1	
1,2-Dibromoethane	ND		mg/kg	0.00077	0.00045	1	
Ethylbenzene	ND		mg/kg	0.0015	0.00022	1	
p/m-Xylene	ND		mg/kg	0.0031	0.00087	1	
o-Xylene	ND		mg/kg	0.0015	0.00045	1	
Xylenes, Total	ND		mg/kg	0.0015	0.00045	1	
Isopropylbenzene	ND		mg/kg	0.0015	0.00017	1	
1,3,5-Trimethylbenzene	ND		mg/kg	0.0031	0.00030	1	
1,2,4-Trimethylbenzene	ND		mg/kg	0.0031	0.00052	1	
Naphthalene	ND		mg/kg	0.0062	0.0010	1	

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	117	70-130	
Toluene-d8	96	70-130	
4-Bromofluorobenzene	100	70-130	
Dibromofluoromethane	104	70-130	



L2532282

Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number:

Project Number: PROJ-051861 Report Date: 06/02/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 05/30/25 09:21

Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
olatile Organics by EPA 5035 L	ow - Westboro	ugh Lab fo	r sample(s):	01 Batch:	WG2073162-5
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Toluene	ND		mg/kg	0.0010	0.00054
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033
Naphthalene	ND		mg/kg	0.0040	0.00065

		Acceptance	е
Surrogate	%Recovery 0	Qualifier Criteria	
1,2-Dichloroethane-d4	98	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	99	70-130	
Dibromofluoromethane	97	70-130	



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number: L2532282

Report Date: 06/02/25

nrameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	r RPD	Qual	RPD Limits
platile Organics by EPA 5035 Low	- Westborough Lab	Associated sa	ample(s): 01	Batch: \	WG2073162-3	WG2073162-4		
Methyl tert butyl ether	92		87		66-130	6		30
Benzene	88		89		70-130	1		30
1,2-Dichloroethane	87		85		70-130	2		30
Toluene	88		88		70-130	0		30
1,2-Dibromoethane	90		88		70-130	2		30
Ethylbenzene	91		91		70-130	0		30
p/m-Xylene	92		92		70-130	0		30
o-Xylene	91		92		70-130	1		30
Isopropylbenzene	94		95		70-130	1		30
1,3,5-Trimethylbenzene	95		96		70-130	1		30
1,2,4-Trimethylbenzene	95		96		70-130	1		30
Naphthalene	93		91		70-130	2		30

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95	94	70-130
Toluene-d8	100	100	70-130 70-130
4-Bromofluorobenzene	104	104	70-130
Dibromofluoromethane	97	97	70-130



METALS



1,6020B

SMV

06/02/25 10:07 06/02/25 12:41 EPA 3050B

Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2532282Project Number:PROJ-051861Report Date:06/02/25

SAMPLE RESULTS

 Lab ID:
 L2532282-01
 Date Collected:
 05/20/25 10:00

 Client ID:
 RW-2-0708
 Date Received:
 05/22/25

Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

0.76

mg/kg

Sample Depth:

Lead, Total

Matrix: Soil Percent Solids: 77%

21

Prep Dilution Date Date **Analytical** Method **Parameter** Result Qualifier Units Factor Prepared Analyzed Method RLMDL **Analyst** Total Metals - Mansfield Lab

10

0.07

Pace

L2532282

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861 **Report Date:**

06/02/25

Lab Number:

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Mansfield	Lab for sample(s):	01 Batch	: WG20	073853-	1				
Lead, Total	ND	mg/kg	0.60	0.05	10	06/02/25 10:07	06/02/25 12:08	1,6020B	SMV

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2532282

06/02/25

Report Date:

Parameter	LCS %Recovery Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sam	nple(s): 01 Batch: WG2	073853-2					
Lead, Total	101	-		80-120	-		20



Matrix Spike Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2532282

Report Date:

06/02/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield	Lab Associated sam	nple(s): 01	QC Batch	ID: WG207385	3-3 (QC Sample	e: L2532281-01	Client	t ID: MS Sa	ample		
Lead, Total	12	49	58	94		-	-		75-125	-		20



Lab Duplicate Analysis

Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861 Lab Number:

Report Date:

L2532282

06/02/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01	QC Batch ID: WG20738	53-4 QC Sample:	L2532281-01	Client ID:	DUP Sample	
Lead, Total	12	16	mg/kg	29	Q	20



INORGANICS & MISCELLANEOUS



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2532282

Project Number: PROJ-051861 Report Date: 06/02/25

SAMPLE RESULTS

Lab ID: L2532282-01 Date Collected: 05/20/25 10:00

Client ID: RW-2-0708 Date Received: 05/22/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	76.6		%	0.100	NA	1	-	05/24/25 02:41	121,2540G	JMN



L2532282

Lab Number:

Lab Duplicate Analysis

Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861 Report Date: 06/02/25

Parameter	Native Sample	Duplicate Sam	ple Units	RPD	Qual	RPD Limits	
General Chemistry - Westborough Lab	Associated sample(s): 01 QC Batch ID:	WG2070700-1	QC Sample: L2	531079-01	Client ID: I	DUP Sample	
Solids, Total	83.6	85.0	%	2		20	



SUNOCO PIPELINE LP (SPLP)

Lab Number: L2532282

Project Number: PROJ-051861 Report Date: 06/02/25

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Project Name:

Cooler Custody Seal

A Absent

Container Info	rmation		Initial	Final	Temp			Frozen		
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)	
L2532282-01A	Vial MeOH preserved	Α	NA		2.2	Υ	Absent		PA-8260HLW(14)	
L2532282-01B	Vial water preserved	Α	NA		2.2	Υ	Absent	23-MAY-25 10:40	PA-8260HLW(14)	
L2532282-01C	Vial water preserved	Α	NA		2.2	Υ	Absent	23-MAY-25 10:40	PA-8260HLW(14)	
L2532282-01D	Plastic 2oz unpreserved for TS	Α	NA		2.2	Υ	Absent		TS(7)	
L2532282-01E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.2	Υ	Absent		PB-6020T(180)	



GLOSSARY

Acronyms

LOQ

MS

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable (DoD report formats only)

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case

estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile

Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF

and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benza(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A -Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
 of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit
 (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- **NJ** Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 27

Published Date: 01/24/2025

Page 1 of 2

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables)

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

Pre-Qualtrax Document ID: 08-113 Document Type: Form

Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 27

Published Date: 01/24/2025

Page 2 of 2

Certification IDs:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

Pace Analytical" Submottle	CHAIN-O	no found of	TODY A	ilutes ackno pacelada cor	windgment o	and acceptant	on of the Par	1 t ce Terms an	d								L2532282 GES - PA - I	ER
Company Name: GES, Inc.				Report T			nes.			-							TO CHARLES AND ADDRESS OF THE	
Street Address: #10 Eagleview Blvd, Sun	e 110 Exton,	PA 193	11 Phone #	(610 458	3-1077x30	054 / (610)	458-230	0	_	1								
						om, gesini												
Customer Project #:		_	Invoice 1	o: Energy	Transfer		_	_		-								
Project Name: Sunoco Pipeline LP (SPLP Crossing) Washington	1				ulhorgener	mytranider c	om		-	5)	ecify	Contai	ner Siz	6.71		**Continuer Stor. (7) Til. (2) 500 ml. (3) 125 (ml. (5) 300 ml. (6) 40 ml. val. (7) 49	
Site Collection Info/Facility ID (if applica Crossing, Upper Makefield Township, PA	ible): Washir	ngton	Purchasi	Order II	(if applica	ble):1122	03239			2.	6	5		5	I		Telepident, (fi) Galler	
			Quote #:		_		_	_	_	Ide	TEV.	ontai	ner Pre	servati I A	ive Typ	e***	*** (1) hone, (2) (INOS, (3) (ISSO4, (4) ((0) 40 m) (ISE, (7) INVESTA, (8) Seel, Theo Accorbic Acid, (30) AssOH, (11) Other	CL (S) PROF militare, (9)
Himie Zoom Cellinstonii [] AK [(P1] MT [(CT)	x) ET		County/S	State origi	n of samp	le(s) PA				+	4 FILL	13	e De	12	_	-	Froi: Mar.	1
Data Deliverables:	Megulato	ry Picgran	OW, ACRA,	нс.) эн хррн	able DW						aī.	PALITHE	ysis Rec	Tueste	T	T		100
[Level II] Level III Level IV			proval Re	Vincia de J		For WWFe	rmit # as app	olicatile		8250) -	naphthalene, EDC	(0	(80				AzctNum/ Classi iD	intified for s
[] Other:			equested:		P Field Filtered (if applicable): [×] Vec. [] No Analysis Lend					gasoline (EPA 8250)	E. cumene, naph 1,3,5-TMB, EDC	or 6010)	1,2-Dibromoethane (EDB (EPA 8260)				S Teble #	ermence ide
Materia Cristo (Inter-Lis Materia time babba) (Devering Water (DW), No Face Water (SW), Sectional (MES, Disclar Proj. 1 and (1)	Fireward Warter (1741)), Venste stoe	er (WW), Produc	Pl. Selfreid	CITY OF LOTT A	SPY SVP1 TRANS	e (FS), #484eDay	(N), Nissee (V)	Ottav (OT)		BE, cur	4 7420	omoeth	e e			Prafile/Temple	non-conft
Customer Sample ID	Metric	Corms/ Grain	Collego	til (Start)	Come	Time	# cont.	Con	& Type of letters	PA Leaded	L.2,4-TMB,	Lead (EPA	1,2-Dibrort EPA 82501	Moisture		15		eration
RW-2 - 0708	SO	G	5/20/29	-		1,000	5	Plette	Glass	1	m ⊷ m		H W	-		-	Sample Comment	差
RW-2	so	6	JIPOJE,			-	2	0	5	X		X	X	X	-			
							-	0	5	×		X	X	X	14			
Additional instructions from Pace: Target VOCs	bu 6049350 III	- NYCH		Collected By.														
scoroovihenzene, MTBE_Naphthalene, 1,2,4-1 rimethylbenzene, 1,2-Dichloroothane	rimethylbenze	mm, 1,3,5		Sugname /	micha	el Ha	erebo	Ouch	Customay S A coolers	imads/	Thetrois					Temp (**	(C) Concepted Terror (*C)	on kee
The plant of the state of the s	Da	5	5/22/	Z	445.	R	le)	V	AU	5			-	14	-	be	1/2 Tracking	
-fluming	PAC	0	Dam/Yana	1	830	Orneitzed Sign	Conquery Cu	program)	0				Date/Str	12	1	139	b Pieron 1 Course FadE UPS Other	(1)
Anthony Gre	en.		Date/Time	3		Received By	Anti Company tra	Willy	Fre 2	en			MAY Date/Ten	11	2025	232	Page of	
Co	a for	40	5/2	3/25	04		-	1	2		c	12	3 0	400	-	61	10	



ANALYTICAL REPORT

Lab Number: L2532283

Client: Groundwater & Environmental Services, In

410 Eagleview Blvd Exton, PA 19341

ATTN: Stephanie Grillo Phone: (641) 458-1077

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861 Report Date: 06/02/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2532283

Report Date:

06/02/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2532283-01	RW-3-0203	SOIL	E-25060-RL-25300050	05/19/25 14:00	05/22/25



Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2532283Project Number:PROJ-051861Report Date:06/02/25

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

The water-preserved VOA vials for Volatile Organics Low-Level analysis were received at the laboratory beyond the 48 hour holding time required for freezing. The client was notified and the results of the analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Title: Technical Director/Representative Date: 06/02/25

Melissa Sturgis Melissa Sturgis

Pace

ORGANICS



VOLATILES



L2532283

06/02/25

Not Specified

05/22/25

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

SAMPLE RESULTS

Date Collected: 05/19/25 14:00

Lab Number:

Report Date:

Date Received:

Field Prep:

Lab ID: L2532283-01

Client ID: RW-3-0203

Sample Location: E-25060-RL-25300050

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/31/25 15:39

Analyst: JIC Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Wes	tborough Lab					
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
Benzene	ND		mg/kg	0.00053	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00027	1
Toluene	ND		mg/kg	0.0010	0.00057	1
1,2-Dibromoethane	ND		mg/kg	0.00053	0.00031	1
Ethylbenzene	0.00029	J	mg/kg	0.0010	0.00015	1
p/m-Xylene	0.0015	J	mg/kg	0.0021	0.00059	1
o-Xylene	0.0012		mg/kg	0.0010	0.00031	1
Xylenes, Total	0.0027	J	mg/kg	0.0010	0.00031	1
Isopropylbenzene	0.00068	J	mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	0.016		mg/kg	0.0021	0.00020	1
1,2,4-Trimethylbenzene	0.043		mg/kg	0.0021	0.00035	1
Naphthalene	0.068		mg/kg	0.0042	0.00068	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	104	70-130	
Dibromofluoromethane	97	70-130	



L2532283

Lab Number:

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861 Report Date: 06/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 05/31/25 14:49

Analyst: MNF

Parameter	Result	Qualifier	Units	RL		MDL
olatile Organics by EPA 5035 Lo	w - Westboro	ugh Lab fo	r sample(s):	01	Batch:	WG2073640-5
Methyl tert butyl ether	ND		mg/kg	0.002	0	0.00020
Benzene	ND		mg/kg	0.0005	50	0.00017
1,2-Dichloroethane	ND		mg/kg	0.001	0	0.00026
Toluene	ND		mg/kg	0.001	0	0.00054
1,2-Dibromoethane	ND		mg/kg	0.0005	50	0.00029
Ethylbenzene	ND		mg/kg	0.001	0	0.00014
p/m-Xylene	ND		mg/kg	0.002	0	0.00056
o-Xylene	ND		mg/kg	0.001	0	0.00029
Xylenes, Total	ND		mg/kg	0.001	0	0.00029
Isopropylbenzene	ND		mg/kg	0.001	0	0.00011
1,3,5-Trimethylbenzene	ND		mg/kg	0.002	0	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.002	0	0.00033
Naphthalene	ND		mg/kg	0.004	0	0.00065

		Acceptance
Surrogate	%Recovery Qu	ualifier Criteria
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	99	70-130
Dibromofluoromethane	92	70-130



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number: L253

L2532283

Report Date: 06/02/25

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	r RPD	Qual	RPD Limits
platile Organics by EPA 5035 Low - Wes	tborough Lab	Associated sa	ample(s): 01	Batch:	WG2073640-3	WG2073640-4		
Methyl tert butyl ether	95		90		66-130	5		30
Benzene	108		97		70-130	11		30
1,2-Dichloroethane	104		96		70-130	8		30
Toluene	108		99		70-130	9		30
1,2-Dibromoethane	96		93		70-130	3		30
Ethylbenzene	112		102		70-130	9		30
p/m-Xylene	116		105		70-130	10		30
o-Xylene	113		104		70-130	8		30
Isopropylbenzene	118		103		70-130	14		30
1,3,5-Trimethylbenzene	117		104		70-130	12		30
1,2,4-Trimethylbenzene	118		105		70-130	12		30
Naphthalene	100		93		70-130	7		30

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99	103	70-130
Toluene-d8	104	103	70-130
4-Bromofluorobenzene	98	96	70-130
Dibromofluoromethane	98	98	70-130



METALS



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2532283Project Number:PROJ-051861Report Date:06/02/25

SAMPLE RESULTS

 Lab ID:
 L2532283-01
 Date Collected:
 05/19/25 14:00

 Client ID:
 RW-3-0203
 Date Received:
 05/22/25

Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 89%

Dilution Date Date Prep Analytical
Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analyst

Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analyst

Total Metals - Mansfield Lab

Lead, Total 29 mg/kg 0.65 0.06 10 06/02/25 10:07 06/02/25 12:45 EPA 3050B 1,6020B SMV



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

SUNOCO PIPELINE LP (SPLP)

Lab Number: L2532283

Report Date: 06/02/25

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytica Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2073853-1									
Lead, Total	ND	mg/kg	0.60	0.05	10	06/02/25 10:07	06/02/25 12:08	3 1,6020B	SMV

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Lab Number:

L2532283

Project Number: PROJ-051861

Report Date:

06/02/25

Parameter	LCS %Recovery	LCSD Qual %Recovery	%Recovery Qual Limits	RPD	Qual RPD Limits	
Total Metals - Mansfield Lab Associated sa	ample(s): 01 Batcl	h: WG2073853-2				
Lead, Total	101	-	80-120	-	20	



Matrix Spike Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2532283

Report Date:

06/02/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab	Associated sam	nple(s): 01	QC Batch	ID: WG207385	3-3	QC Sample	e: L2532281-01	Client	t ID: MS Sa	ample		
Lead, Total	12	49	58	94		-	-		75-125	-		20



L2532283

Lab Duplicate Analysis

Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

ality Control Lab Number:

Report Date: 06/02/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01	QC Batch ID: WG20738	353-4 QC Sample: I	L2532281-01	Client ID: D	OUP Sample	
Lead, Total	12	16	mg/kg	29	Q	20



INORGANICS & MISCELLANEOUS



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2532283

Project Number: PROJ-051861 Report Date: 06/02/25

SAMPLE RESULTS

Lab ID: L2532283-01 Date Collected: 05/19/25 14:00

Client ID: RW-3-0203 Date Received: 05/22/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	88.6		%	0.100	NA	1	-	05/24/25 02:41	121,2540G	JMN



L2532283

Lab Duplicate Analysis

Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Quality Control Lab Number:

Report Date: 06/02/25

Parameter	Native Sample	Duplicate Sam	ple Units	RPD	Qual	RPD Limits	
General Chemistry - Westborough Lab As	ssociated sample(s): 01 QC Batch ID:	WG2070700-1	QC Sample: L2	2531079-01	Client ID: I	DUP Sample	
Solids, Total	83.6	85.0	%	2		20	



SUNOCO PIPELINE LP (SPLP)

Lab Number: L2532283

Project Number: PROJ-051861 Report Date: 06/02/25

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Project Name:

Cooler Custody Seal

A Absent

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2532283-01A	Vial MeOH preserved	Α	NA		2.2	Υ	Absent		PA-8260HLW(14)
L2532283-01B	Vial water preserved	Α	NA		2.2	Υ	Absent	23-MAY-25 10:40	PA-8260HLW(14)
L2532283-01C	Vial water preserved	Α	NA		2.2	Υ	Absent	23-MAY-25 10:40	PA-8260HLW(14)
L2532283-01D	Plastic 120ml unpreserved	Α	NA		2.2	Υ	Absent		TS(7)
L2532283-01E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.2	Υ	Absent		PB-6020T(180)



GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations

 Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case

estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content,

where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

MS

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile

Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF

and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.



Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic

peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A -Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit
 (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively



Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- **NJ** Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)



REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 27

Published Date: 01/24/2025 Page 1 of 2

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. **EPA 8270E:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables)

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

Document Type: Form Pre-Qualtrax Document ID: 08-113

Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 27

Published Date: 01/24/2025

Page 2 of 2

Certification IDs:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

	CHAIN-C	ons furmi	STODY of custody ron at: https://inh only is a LEGAN	stitletes acim o puenlaba co	nwindigman	Fired accorption	non of the Pe	nt is leem a	nd.								L2532283
Company Name: GES, Inc			Contac	Roune 1	To Street	matte (Cartific				+							GES-PA-E
Street Address: 410 Eagleview Blvd, Sui	te 110 Exten	PA 193	41 Phone	#: (610 45	8-1077x3	054 / (610	0) 458-230	00		+							
			E-mail:	Sgrillo@g	esonline.	com; gesir	sbax@ges	anline.ca	OTT I	+							To anticommunication
			CTEH D	ėliverables (Derivatd.co	m, Jabresutts	@deh.com	desilions	online com	1							
Customer Project #			Invoice	To: Energ	y Transfe	e .		_	_	-							
Project Name: Sunoco Pipeline LP (SPLP) Washingto	0	_			numbou@una	etotomoto i	- Carrier		-							
Crossing Site Collection Info/Facility ID (if applic	a Balanka Villa ada il							AMIT			Sp	recify	Contai	iner Siz	2 **		175 mi. [5] 100 mi. (6) 11, (7) 500 mi. (1) 250 mi. (1
Crossing, Upper Makefield Township, PA	adiej: washii	ngton	Purchas	e Order #	(if applic	able);1122	203239			6	16	5	T	15	T	T	TerraCore, (9) Other
											-	-	_	1.0	-	_	*** (3) Nesse. (2) HWO3, (3) H2504, (4) HO, (5
			Quote #						-	10	INL			_	ive Typ	Gast	(6) 40 mi, vial. (7) NaHSO4, (8) Scal. Thiomital Ascurbic Acid. (30) MeDH, (13) Other
fine Zone Collected: [AK]37]MT [CT]			County/	State orig	in of sam	ple(s): PA				-	Sire &	1		14	_		
Data Deliverables:	Regulato	ury Prengear	TOW, HCRA	etr.) so upgli	cable: DW					-		Analy	ysis Re	queste	d		Proj. Mgr.
Level II Level III Level IV			pproval Re			D # or WW Fe	ний и акар	olitrable	_	1	naphthalene .EDC		1.				August en
X EQUIS			y [15 day [14					3260	C	8	(B)			100	Acettium/ Chart ID
Other:	Date R	esults R	equested:	ASAP	Finld Filte	red (If applica	pril 1815s	€ [TNe	_	gasoline (EPA 8260)	, haph 9, EDC	6010)	(EDB)				Table #
Sham Code and Code and Code					Analysis:	mad				- P	3,5-TMB	ŏ	Jane	1			3
Shamu Caddid Emsert to Advisor from Instruct Districting Wildow (DW), writing Wilson (DW), Sectional (1980), Shedge (SA), Calefo (C)	Securit Vitales (1004)	L Warm Wal	or TWILL French	2) 169/3666	una outort's	Water (1975), Thesia	(TS), Michigay	(B), Vanor (V)	Diffee (DT)	ssol	33.9	7420	pao				Profile/Temptate
Contributed and I to		Cirmp/	Dollecte	ed (Start)	Low	posite End	_	Humber	& Type of		A. MIBS, Cumene, A-TMB, 1,3,5-TMB,	(EPA	1,2-Dibromoethane EPA 8260)	Moisture			Private reminate
Customer Sample ID	Matrix	Grab	Date	Time	Date	1	# cont.	Core	ainers	PA Leaded	1,2,4-T)) ps	A 8	oist			
RW-3 - 0203	50	G	-	1400	-	Time	-	Plastic	-68W-	-		Lead	2 9	S			Sample Comment
E-WH	50	G	2/19/05	1400	-	-	5	0	5	Х		X	X	X			
	1	-			-	1	5	0	5	X		X	X	X	144		
						-	-							-			
						-											
						-	-										
Iditional instructions from Pace: Target VOCs (by EPAN260 hs	E BTEK.		Collected by:	1. 0.1	41	1		Contract to								
onverythensene, MTBF, Naphthalane, 1,2,3-7/ invertiy/benzene, 1,2-Dichloroethane	imethylbenzer	in, 1,3,5		Siptuline	Phy	ec 1-lar	it bro	Jul	CHO b	mate/5	awciał Cza	illtipre	Funda	Harandi			
Innumber by 7 Comment Diggsley		_	Daniel Co.	- 6	non	11	Tot	5	Continu		Theonors	MIV ID		Committee	of Parties	Timp (%	Contracted Samp-(*C) () on its
120	Ger	5.4	5/22/2	5 1	West.	1	Company (Sie	11	NA	IE			27	1	/		
regulated by / Come - Planes	Park		tion/free	1-	200	Received By/	Company (Sign	natura)	17.	_		_	/22			19	49
replicate to / Commune Commune	PACE	_			130		-	~	_				<	7	20	100	Delivered By
	~		5-1	1		Businesi iliyi	2.18	entited	0				Date/Dim		200	3.70	JOBS T (Dilver)
minhed by / Company (Newton)			i)are/time	-	-	Remarked Built	Inthe	My ?	Greek	2					2025	233	O
-00-th P.												- 11	Dotter, Tayly				
Anthony Groom	n Inse					/	1	1	,				-		_	Sec	Page of



ANALYTICAL REPORT

Lab Number: L2532281

Client: Groundwater & Environmental Services, In

410 Eagleview Blvd Exton, PA 19341

ATTN: Stephanie Grillo Phone: (641) 458-1077

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861 Report Date: 06/02/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2532281

Report Date:

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2532281-01	RW-4-0405	SOIL	E-25060-RL-25300050	05/19/25 16:00	05/22/25



Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2532281Project Number:PROJ-051861Report Date:06/02/25

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

The water-preserved VOA vials for Volatile Organics Low-Level analysis were received at the laboratory beyond the 48 hour holding time required for freezing. The client was notified and the results of the analysis are reported.

Total Metals

The WG2073853-4 Laboratory Duplicate RPD performed on L2532281-01 is outside the acceptance criteria for lead (29%) due to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Title: Technical Director/Representative Date: 06/02/25

Melissa Sturgis Melissa Sturgis

Pace

ORGANICS



VOLATILES



L2532281

06/02/25

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

SAMPLE RESULTS

Date Collected: 05/19/25 16:00

Lab Number:

Report Date:

Lab ID: L2532281-01 Date Collect

Client ID: RW-4-0405 Date Received: 05/22/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/30/25 13:13

Analyst: JIC Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - V	Vestborough Lab					
Methyl tert butyl ether	ND		mg/kg	0.0025	0.00025	1
Benzene	ND		mg/kg	0.00063	0.00021	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00032	1
Toluene	ND		mg/kg	0.0013	0.00068	1
1,2-Dibromoethane	ND		mg/kg	0.00063	0.00037	1
Ethylbenzene	ND		mg/kg	0.0013	0.00018	1
p/m-Xylene	ND		mg/kg	0.0025	0.00070	1
o-Xylene	ND		mg/kg	0.0013	0.00037	1
Xylenes, Total	ND		mg/kg	0.0013	0.00037	1
Isopropylbenzene	ND		mg/kg	0.0013	0.00014	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0025	0.00024	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0025	0.00042	1
Naphthalene	ND		mg/kg	0.0050	0.00082	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	98	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	101	70-130	
Dibromofluoromethane	99	70-130	



L2532281

Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number:

Project Number: PROJ-051861 Report Date: 06/02/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 05/30/25 09:21

Analyst: JIC

Parameter	Result	Qualifier	Units	RL		MDL
olatile Organics by EPA 5035 Lo	ow - Westboro	ugh Lab fo	r sample(s):	01	Batch:	WG2073162-5
Methyl tert butyl ether	ND		mg/kg	0.0020)	0.00020
Benzene	ND		mg/kg	0.0005	0	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010)	0.00026
Toluene	ND		mg/kg	0.0010)	0.00054
1,2-Dibromoethane	ND		mg/kg	0.0005	0	0.00029
Ethylbenzene	ND		mg/kg	0.0010)	0.00014
p/m-Xylene	ND		mg/kg	0.0020)	0.00056
o-Xylene	ND		mg/kg	0.0010)	0.00029
Xylenes, Total	ND		mg/kg	0.0010)	0.00029
Isopropylbenzene	ND		mg/kg	0.0010)	0.00011
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020)	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020)	0.00033
Naphthalene	ND		mg/kg	0.0040)	0.00065

		Acceptance	
Surrogate	%Recovery (Qualifier Criteria	
1,2-Dichloroethane-d4	98	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	99	70-130	
Dibromofluoromethane	97	70-130	



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number: L2532281

Report Date: 06/02/25

ırameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	/ RPD	Qual	RPD Limits	
blatile Organics by EPA 5035 Low -	Westborough Lab	Associated s	sample(s): 01	Batch:	WG2073162-3	WG2073162-4			
Methyl tert butyl ether	92		87		66-130	6		30	
Benzene	88		89		70-130	1		30	
1,2-Dichloroethane	87		85		70-130	2		30	
Toluene	88		88		70-130	0		30	
1,2-Dibromoethane	90		88		70-130	2		30	
Ethylbenzene	91		91		70-130	0		30	
p/m-Xylene	92		92		70-130	0		30	
o-Xylene	91		92		70-130	1		30	
Isopropylbenzene	94		95		70-130	1		30	
1,3,5-Trimethylbenzene	95		96		70-130	1		30	
1,2,4-Trimethylbenzene	95		96		70-130	1		30	
Naphthalene	93		91		70-130	2		30	

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria	_
1,2-Dichloroethane-d4	95	94	70-130	
Toluene-d8	100	100	70-130	
4-Bromofluorobenzene	104	104	70-130	
Dibromofluoromethane	97	97	70-130	



METALS



Project Name: Lab Number: SUNOCO PIPELINE LP (SPLP) L2532281 06/02/25

Project Number: PROJ-051861 **Report Date:**

SAMPLE RESULTS

Date Collected:

05/19/25 16:00

Client ID: RW-4-0405

Date Received:

05/22/25

Sample Location:

E-25060-RL-25300050

L2532281-01

Field Prep: Not Specified

Sample Depth:

Matrix:

Lab ID:

Soil

83% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Parameter** Result Qualifier Units Factor Prepared Analyzed Method RLMDL **Analyst** Total Metals - Mansfield Lab 12 Lead, Total mg/kg 0.71 0.06 10 06/02/25 10:07 06/02/25 12:18 EPA 3050B 1,6020B SMV



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2532281

Report Date:

06/02/25

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield	Lab for sample(s):	01 Batch:	: WG20	073853-	1				
Lead, Total	ND	mg/kg	0.60	0.05	10	06/02/25 10:07	06/02/25 12:08	1,6020B	SMV

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2532281

Report Date:

Parameter	LCS %Recovery Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual RPD Limits	
Total Metals - Mansfield Lab Associated sam	nple(s): 01 Batch: WG2	073853-2					
Lead, Total	101	-		80-120	-	20	



Matrix Spike Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2532281

Report Date:

<u>Parameter</u>	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual Limits		Qual	RPD Limits
Total Metals - Mansfield L	_ab Associated sam	nple(s): 01	QC Batch	ID: WG207385	3-3 C	QC Sample	e: L2532281-01	Client ID: RW-4	1-0405		
Lead, Total	12	49	58	94		-	-	75-125	-		20



Lab Duplicate Analysis

Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Batch G

Project Number: PROJ-051861

Lab Number:

L2532281

Report Date:

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01	QC Batch ID: WG20738	853-4 QC Sample:	L2532281-01	Client ID:	RW-4-0405	
Lead, Total	12	16	mg/kg	29	Q	20



INORGANICS & MISCELLANEOUS



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2532281

Project Number: PROJ-051861 Report Date: 06/02/25

SAMPLE RESULTS

Lab ID: L2532281-01 Date Collected: 05/19/25 16:00

Client ID: RW-4-0405 Date Received: 05/22/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	82.5		%	0.100	NA	1	-	05/24/25 02:41	121,2540G	JMN



L2532281

Lab Number:

Lab Duplicate Analysis
Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP) Batch Quali

Project Number: PROJ-051861 Report Date: 06/02/25

ParameterNative SampleDuplicate SampleUnitsRPDQualRPD LimitsGeneral Chemistry - Westborough LabAssociated sample(s): 01QC Batch ID: WG2070700-1QC Sample: L2531079-01Client ID: DUP SampleSolids, Total83.685.0%220



SUNOCO PIPELINE LP (SPLP) Lab Number: L2532281

Project Number: PROJ-051861 Report Date: 06/02/25

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Project Name:

Cooler Custody Seal

A Absent

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2532281-01A	Vial MeOH preserved	Α	NA		2.2	Υ	Absent		PA-8260HLW(14)
L2532281-01B	Vial water preserved	Α	NA		2.2	Υ	Absent	23-MAY-25 10:40	PA-8260HLW(14)
L2532281-01C	Vial water preserved	Α	NA		2.2	Υ	Absent	23-MAY-25 10:40	PA-8260HLW(14)
L2532281-01D	Plastic 120ml unpreserved	Α	NA		2.2	Υ	Absent		TS(7)
L2532281-01E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.2	Υ	Absent		PB-6020T(180)



GLOSSARY

Acronyms

EDL

LOD

MS

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

 Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

 Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content,

where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for
which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated
using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile

Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less

than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF

and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.



Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic

peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A -Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively



Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- **NJ** Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)



REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 27

Published Date: 01/24/2025

Page 1 of 2

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables)

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

Pre-Qualtrax Document ID: 08-113 Document Type: Form

Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 27

Published Date: 01/24/2025

Page 2 of 2

Certification IDs:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

Pace Analytical* Submitte	CHAIN-C	me found	of mustady con- of: https://ink	titiones ackno s narebbo vo	nvisidgment	and acceptant	new of Mie Pa	nt ice Turms a	nd							L	2532281 ES - PA - ER			
Company Name: GES, Inc.			Contact/Report To: Stephane Grillo							-						U	E3-PA-ER			
Street Address: 410 Eagleview Blvd, Sur	te 110 Extori,	PA 193	341 Phone # (610 458-1077x3064 / (610) 458-2300													N/A				
			E-mail: Sgrillo@gesonline.com; gesinbox@gesonline.com																	
			CTEH D	elivorablesqu	(smvstd.cor	nc labrenolta	Octeh com	C destillant	million room	-										
Customer Project #:		_	-	To: Energy				71												
Project Name: Sunoco Pipeline LP (SPLP) Washington	0	_																	
Crossing			Invence	C-Minn; abo	nvoicesetp.e	nations (Note:	rayteenska o	THE			5	pecify	Contai	ner Siz			**Commun Swe: (3) Et. (2) 500 mi. (3) 750 mt. (4)			
Site Collection Info/Facility ID (if applied Crossing, Upper Makefield Township, PA	able): Washii	ngton	Purchas	e Order #	(If applic	nble):1122	03239			6	-	Te	1	Te	-	-	175 mi. (5) 100 mi., (n) 40 mi. stat. (7) inches, (n) for aCone, (9)-Other			
crossing, opper makeriend rownship, PA	X.										6	13		15			**************************************			
			Quote #	_	_					(d	entify (ner Pre	servat	ive Ty	peess	*** (1) Nome. (2) HNOS, (3) H2SO4, (4) HCl, (5) Nuc (0) 40 mL vial, (7) NaRSO4, (8) Sed. Triconitate, (5)			
Time Leve Collection JAK 177 JAK 1,CT 1	XIET		1	State origi	n of care	aladet at				10	Cree.	12		11			Ascorbic Arid, (20) MeOlii, (11) Other			
Data Deliverables:		iny Program	DW. RCIA			pre(s); PA					in.	Anal	ysis Red	jueste	d		Proc. Mgr			
Level II Level III Level IV			oproval Re			Off the WWW Par	- 24	-			She.						Į,			
X J EQUIS			y [15 day [O III SID WANT IN	итий и эк ару	pticatyle		60	A 8260) - naphthalene, EDC						Acciliant Climit ID			
Other:						4 82	aph COC	60109	ED8				and September 1994							
	Date Results Reque		equested								78. I	9) e (B	1 1	1		5 Tables 5			
Matrix Corps: (Insure) in Advirus Insulation (a). December Waster (IDM), officer Waster (IDM), Sachsment (IETM), Outgot (I.U., Loude (C)	Description of the	. Streets Was	or FMWA Transport	olei Correcto	Amalysis: L	ond				oline	Curnene,	7420 or	tha				Si firm			
etters Water (SW), Sadiston (SES), Shates (SL), David, (C)			- jarrajo-	T. E. S.	NW DEFORE A	rus (Mrt. Time	e ITO, Steameny	(N) Viewer (V	, Other (01),	200 200 200	m m	74	moe (a.		1 1 3	Profile/Temptate			
Customer Sample ID	Matrix Comp/		Coffeet	of (Start)	Comp	Composite End		Number & Type of Containers		PA Leaded gasoline (EPA 8260) BTEX, MTBE, cumene, naphtha 1,2.4-TMB, 1,3,5-TMB, EDC		Lead (EPA	1,2-Dibromoethane (EDB)	Moisture			log so			
		Grap	Dite	Threat	Ulimi	Time	If cont.	Plastic	Albino	PA Le	7 K	pea	1,2-D	lois			Minoritor			
RW-4 - 0405	SO	G	5/19/05	1600	-	-	5	0	5	X	M 44			-		-	Sample Comment &			
W4	50	G					5	0	5	×		X	X	X	-					
	1											X	Χ	Х	- M	4				
							-				-									
										-										
Iditional instructions from Pace: Target VOCs I	by EPAS250 Hs	t: BTEX,		Collective By	Va Louis	13-	le o		Costomer fix	murks)	mend Co	nillions.	Douglas							
	omethymen/er	ne, 1,3,5-		Varing 2	5 p	Honez	4 Void	in					· version.	rtsrard):						
methylbargene, 1.2-Dichlaroothane			Date/Time	110	estay	1	0 8		# rooles		Therman	redee off		Carreso	n feater	Tamp (*C	Consecued Temp (*C) [-] service:			
metry beruche, 1.2-Dichleroethane	-		5/22/	25 %	1.11	become for	1100	11	PAI	5			37	1	/	244	TOSSING #			
musched by Company (Signature)) 1	1			7 - 5		00	0	prec		_	_	122	126	1	77				
musched by Company (Signature)	A	16	Date/Time			Hecsival By	Company (Ug	PHANDY IT									to the second se			
natural of the Company (Signature)	A	æ	Date/Time		350		- 5	2				- 1	4	. 1 .	1	35	Delivered by			
Hamilton of the Community Constitute of the Community Constitute of the Community Constitute of the Community Constitute of the Constitute	A	Œ	Date/Time		330		Company (Sign	2	0		_	-	Date/Time	22	2 1	15	O Informaci (Courie) Federal			
interrytomy ene, 12-Dichleroothane interritory by / Company (Signature) interritory by / Company Camany interritory by / Company Camany interritory by / Company Camany	A	Œ	Date/Time		330	Received by/o	Inthu	minus	Gree	n			MAY	22	2025	15	O Informac (Courie) Feder			
repropyliterizere, MTBE, Naghrhainne, 1,24 fr imethylberizere, 1,2-Orchleroethane Implicated by Company Georgia multimated by Company Georgia multimated by Company Georgia Marthony Green Anthony Green	Pa		Date/Time	7	350	Received by/o	- 5	minus	Gree	n			MAY	22	2025	152 238	O INFORMACI Couries Federal			