

SPS Technologies Abington PA March 1, 2025 Daily Surface Water and Outfall Sampling Results Report

SPS Technologies

2025-03-04

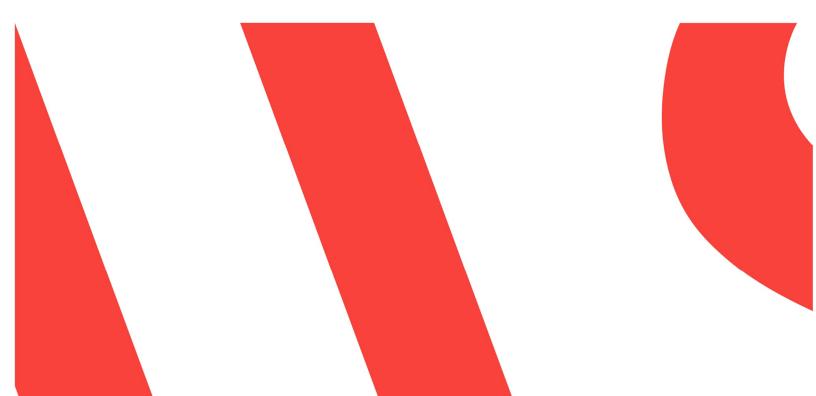


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1. Executive Summary

WSP USA Inc. (WSP), on behalf of SPS Technologies Abington PA (SPS), collected five surface water samples and one outfall sample in accordance with SPS's Sampling Plan, which was submitted to the Philadelphia Water Department (PWD), the Pennsylvania Department of Environmental Protection (PADEP), and the United States Environmental Protection Agency (EPA). The samples were submitted to a Pennsylvania-certified analytical laboratory for analysis. The sample locations are shown in the attached **Figures 1** and **2** and the results of the analysis are shown below.

Surface	Water	Sam	ples:
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		Upstream Offsite SW Sample Location 1	Upstream Offsite SW Sample Location 2	SW Sample Location 3	High School Road Sample Location	Downstream SW Sample Location
Parameter	Units	Result	Result	Result	Result	Result
Toluene	mg/L	ND	ND	ND	ND	ND
2-Butanone (MEK)	mg/L	ND	ND	ND	ND	ND
Chromium, Trivalent	mg/L	ND	ND	ND	ND	ND
Chromium, Hexavalent	mg/L	ND	ND	ND	ND	ND
Total Cyanide	mg/L	ND	ND	0.008	0.002	ND
Free Cyanide	mg/L	ND	ND	0.007	0.004	ND
Oil & Grease	mg/L	ND	ND	ND	ND	ND
Total Chromium	mg/L	0.00044	0.00035	0.00100	0.00046	0.00026
Total Nickel	mg/L	0.00079	0.00148	0.00501	0.00335	0.00226
Dissolved Chromium	mg/L	0.0003	0.0002	ND	0.0002	0.0004
Dissolved Nickel	mg/L	ND	0.0014	0.0047	0.0031	0.0021
Hardness	mg/L	232.4	282.1	219.7	231.1	202.6
pH ¹	SU	9.06	7.30	7.56	7.47	6.40

Outfall Samples:

		Outfall 006
Parameter	Units	Result
Toluene	mg/L	ND
2-Butanone (MEK)	mg/L	ND
Chromium, Trivalent	mg/L	ND
Total Cyanide	mg/L	ND
Free Cyanide	mg/L	ND
Oil & Grease	mg/L	ND
Total Suspended Solids	mg/L	ND
Nitrate/Nitrite as Nitrogen	mg/L	4.2
Chemical Oxygen Demand	mg/L	23
Total Aluminum	mg/L	0.00836
Total Chromium	mg/L	0.00025
Total Copper	mg/L	0.0025
Total Iron	mg/L	0.2045
Total Lead	mg/L	0.00041
Total Nickel	mg/L	0.00218
Total Zinc	mg/L	0.07488

Dissolved Chromium	mg/L	0.0002
Dissolved Nickel	mg/L	0.0022
Hardness	mg/L	224.3
pH ¹	SU	6.60

A detailed description of the sampling procedure, results, and data evaluation are included in this Report. The laboratory data validation reports and the complete laboratory analytical reports, including Quality Assurance/Quality Control (QA/QC) are attached to the Report.

2. Introduction

This Daily Surface Water and Outfall Sampling Results Report (Report) has been prepared by WSP USA Inc. (WSP) on behalf of SPS Technologies Abington PA (SPS), which operates the facility located at 301 Highland Ave, Jenkintown, Pennsylvania, 19046 (the Facility). The purpose of the Report is to provide off-site surface water and outfall sampling results collected in accordance with SPS's Sampling Plan, as prepared by WSP, which was submitted to the Philadelphia Water Department (PWD), the Pennsylvania Department of Environmental Protection (PADEP), and the United States Environmental Protection Agency (EPA) on February 21, 2025 and revised on February 25, 2025 (Sampling Plan). Refer to Sampling Plan **Figures 1** and **2** for sampling locations.

3. Site Background

SPS Technologies currently owns the Site. Operations at the Site consist of manufacturing bolts, nuts, screws, rivets, washers, furniture, and fixtures. Tookany Creek is located south of the SPS building and north of Paxson Ave.

4. Tookany Creek Offsite Investigation

4.1 Sampling Locations

The sampling locations displayed on **Figure 1** and **Figure 2** were selected based on discussions with PWD and PADEP and were identified in the Sampling Plan.

4.2 Surface Water and Outfall Sampling Field Methodology

The surface water and outfall sampling methodology was in accordance with the Sampling Plan.

The surface water and outfall field data collected for the surface water and outfall samples at each sampling location included the following:

- Water depth (for surface water samples only)
- Weather conditions
- Water velocity (if visibly flowing)
- Sample characteristics (clarity, appearance, color, odor, etc.)
- Water quality measurements (DO, pH, salinity, ORP, turbidity, conductivity, and temperature)
- Additional observations (e.g., wildlife sightings)

This data is documented on the daily surface water sampling forms attached in **Appendix A**. The in-field measurements of pH are provided on **Table 1** and **2**.

4.3 Sample Analysis

All samples were submitted to Pace Analytical in Westborough, Massachusetts (Certification No. 68-03671) and Pace Analytical in Mansfield, Massachusetts (Certification No. 68-02089), following chain-ofcustody protocols.

4.4 Surface Water Sampling Daily Results

In accordance with the Sampling Plan, surface water samples were analyzed for the following parameters.

- pH (in-field measurement)
- Oil & grease
- Free cyanide
- Total cyanide
- Total nickel
- Dissolved nickel
- Total chromium
- Dissolved chromium
- Hexavalent chromium (speciated)
- Methyl ethyl ketone (MEK)
- Toluene
- Total hardness

The validated daily analytical results from surface water sampling are presented in Table 1.

4.5 Outfall Sampling Daily Results

In accordance with the Sampling Plan and PADEP's comments, outfall samples were analyzed for the following parameters:

- pH (in-field measurement)
- Chemical Oxygen Demand
- Total Suspended Solids
- Nitrate-Nitrite as N
- Total aluminum
- Total copper
- Total iron
- Total lead
- Toluene
- Methyl ethyl ketone (MEK)
- Hexavalent chromium (speciated)
- Total cyanide
- Free cyanide
- Oil & grease
- Total chromium
- Total nickel
- Total zinc
- Dissolved chromium
- Dissolved nickel

• Hardness

The validated daily analytical results from outfall sampling are presented in Table 2.

5. Daily Quality Assurance/Quality Control and Management

5.1 Field Quality Assurance/Quality Control Requirements

Field personnel performed data quality control (QC) verification of field measurements in consultation with the Pennsylvania Department of Environmental Protection Sampling and Analysis Plan (PADEP, 2023). This process included reviewing calibration records and duplicate readings to ensure data accuracy. Field measurements were documented in notebooks or field information forms. pH readings are also summarized in **Table 1**.

All hand equipment used during the sampling event was cleaned with Alconox and distilled water. Disposable sampling cups were used to collect the samples. Field personnel wore disposable nitrile sampling gloves. Sampling gloves were discarded after processing at each sample location and replaced before handling decontaminated equipment or work surfaces.

5.2 Analytical QA/QC Samples

All quality assurance/quality control (QA/QC), field duplicates (FD), and matrix spikes/matrix spike duplicates (MS/MSD) were collected in accordance with the Sampling Plan.

Trip blanks (TBs) accompanied each shipment of toluene and MEK samples at a rate of one per day. The following QA/QC samples were collected at a rate of 1 per 20 primary samples during each monitoring event: field duplicates (FD) and matrix spikes/matrix spike duplicates (MS/MSD). No field (rinsate) blanks were collected because single-use sample cups were used to collect the samples.

5.3 Data Evaluation

The reliability of the analytical data were evaluated to assess its suitability for use in the monitoring. In particular, the data's precision, accuracy, and sensitivity were evaluated based on field sampling documentation, adherence to sample holding times, and analysis of the QC samples (duplicates, spikes, and blanks). Data validation of the laboratory data was in accordance with the Sampling Plan. The data validation report is attached as **Appendix B**.

6. References

- 1. SPS Technologies, Sampling Plan. 25 Feb. 2025.
- 2. Pennsylvania Department of Environmental Protection. Water Quality Monitoring Protocols for Surface Waters. 2023.

FIGURES & TABLES & APPENDICES



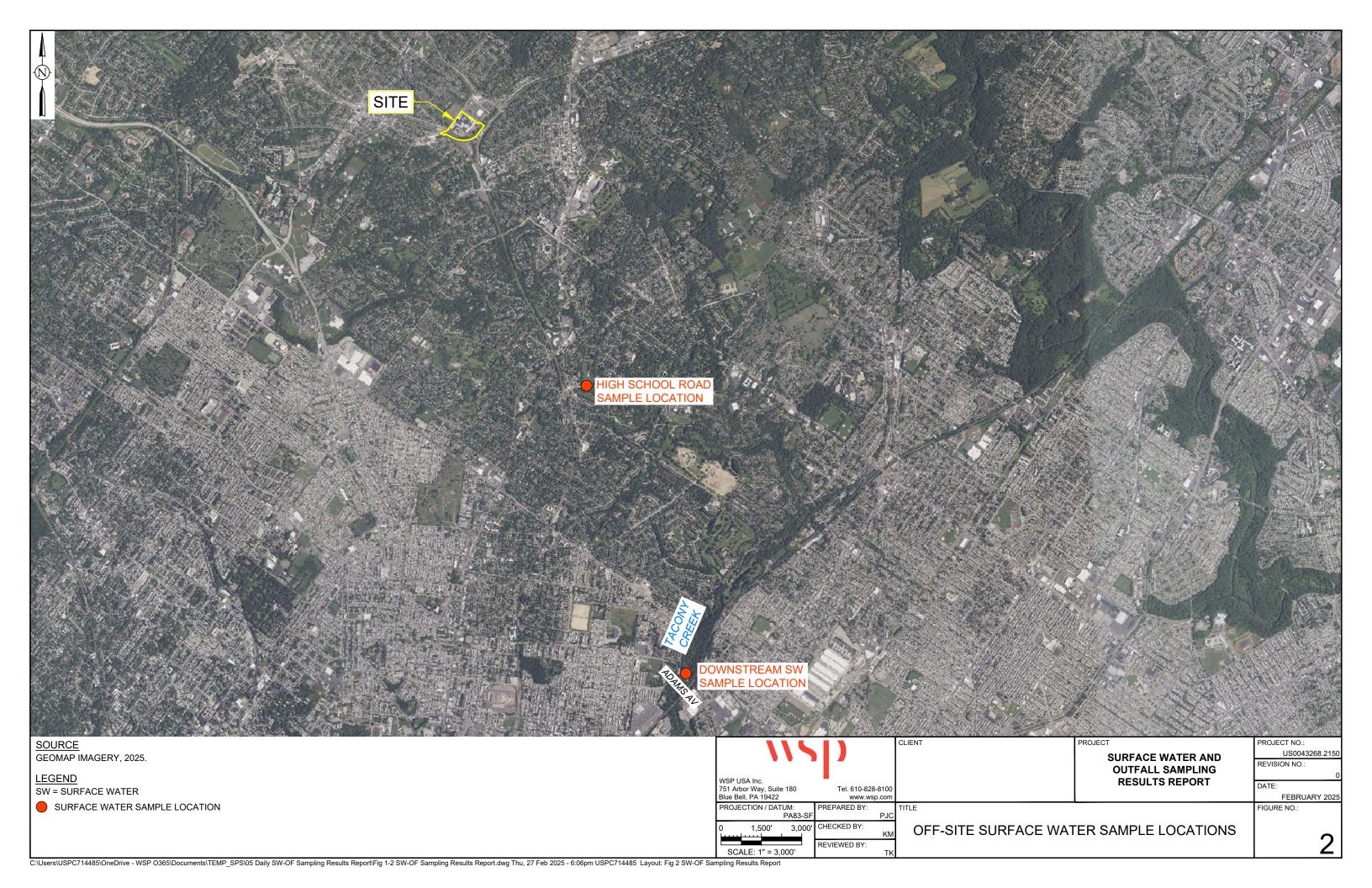


Table 1Surface Water Analytical ResultsDaily Surface Water Sampling Results ReportSPS TechnologiesJenkintown, Pennsylvania

		Upstream O	ffsite SW	Sample	Upstream O	ffsite SW	Sample	SV	/ Sample		High Scho	ol Road	Sample	Downstre	am SW S	Sample
Sample	Location	Location 1		Lo	Location 2		Lo	ocation 3		L	ocation		L	ocation		
Field Sa	ample ID	SW	2_030125		SW	SW1_030125		SW3_030125			SW	4_030125	5	SW5_030125		
Lab Sa	ample ID	L25	511388-04		L25	11388-05		L25	511388-03		L2511388-02			L2511388-01		
Sampl	ing Date	3	/1/2025		3	/1/2025		(r)	/1/2025		3	/1/2025		3	/1/2025	
	Matrix		Water			Water			Water			Water			Water	
Parameter	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Volatile Organic Compounds																
Toluene	mg/L	ND		0.001	ND		0.001	ND		0.001	ND		0.001	ND		0.001
2-Butanone (MEK)	mg/L	ND		0.01	ND		0.01	ND		0.01	ND		0.01	ND		0.01
General Chemistry																
Chromium, Trivalent	mg/L	ND		0.01	ND		0.01	ND		0.01	ND		0.01	ND		0.01
Chromium, Hexavalent	mg/L	ND		0.01	ND		0.01	ND		0.01	ND		0.01	ND		0.01
Total Cyanide	mg/L	ND		0.005	ND		0.005	0.008		0.005	0.002	J	0.005	ND		0.005
Free Cyanide	mg/L	ND		0.01	ND		0.01	0.007	J	0.01	0.004	J	0.01	ND		0.01
Oil & Grease	mg/L	ND		4	ND		4	ND		4	ND		4	ND		4
Total Metals	· · ·															
Total Chromium	mg/L	0.00044	J	0.001	0.00035	J	0.001	0.001		0.001	0.00046	J	0.001	0.00026	J	0.001
Total Nickel	mg/L	0.00079	J	0.002	0.00148	J	0.002	0.00501		0.002	0.00335		0.002	0.00226		0.002
Dissolved Metals	- · · ·															
Dissolved Chromium	mg/L	0.0003	J	0.001	0.0002	J	0.001	ND		0.001	0.0002	J	0.001	0.0004	J	0.001
Dissolved Nickel	mg/L	ND		0.002	0.0014	J	0.002	0.0047		0.002	0.0031		0.002	0.0021		0.002
Total Hardness																
Hardness	mg/L	232.4		0.54	282.1		0.54	219.7		0.54	231.1		0.54	202.6		0.54
Field Parameters																
pH ¹	SU	9.06			7.30			7.56			7.47			6.40		

Notes:

1.) Field measurements for pH were performed by WSP field personnel prior to sample collection using a Horiba U-52. Field measurements were not validated.

Abbreviations:

mg/L: milligrams per liter ND: Non-Detect Q: Qualifier RL: Reporting Limit SU: Standard Units

Qualifiers:

J - Estimated Result

Table 2 **Outfall Analytical Results** Daily Surface Water Sampling Results Report **SPS Technologies** Jenkintown, Pennsylvania

	Sample Location	on Outfall 006					
	Field Sample ID	OF00	06_030125				
	Lab Sample ID	L2511387-01					
	Sampling Date	3/1/2025					
	Matrix		Water				
Parameter	Units	Result	Q	RL			
Volatile Organic Compounds			•				
Toluene	mg/L	ND		0.001			
2-Butanone (MEK)	mg/L	ND		0.01			
General Chemistry							
Chromium, Trivalent	mg/L	ND		0.01			
Chromium, Hexavalent	mg/L	ND		0.01			
Total Cyanide	mg/L	ND		0.005			
Free Cyanide	mg/L	ND		0.01			
Oil & Grease	mg/L	ND		4			
Total Suspended Solids	mg/L	ND		5			
Nitrate/Nitrite as Nitrogen	mg/L	4.2		0.1			
Chemical Oxygen Demand	mg/L	23		20			
Total Metals							
Total Aluminum	mg/L	0.00836	J	0.01			
Total Chromium	mg/L	0.00025	J	0.001			
Total Copper	mg/L	0.0025		0.001			
Total Iron	mg/L	0.2045		0.05			
Total Lead	mg/L	0.00041	J	0.001			
Total Nickel	mg/L	0.00218		0.002			
Total Zinc	mg/L	0.07488		0.005			
Dissolved Metals							
Dissolved Chromium	mg/L	0.0002	J	0.001			
Dissolved Nickel	mg/L	0.0022		0.002			
Total Hardness							
Hardness	mg/L	224.3		0.54			
Field Parameters							
pH ¹	SU	6.60					

Notes:

1.) Field measurements for pH were performed by WSP field personnel prior to sample collection using a Horiba U-52. Field measurements were not validated.

Abbreviations:

mg/L: milligrams per liter ND: Non-Detect Q: Qualifier **RL: Reporting Limit** SU: Standard Units

Qualifiers:

J - Estimated Result

APPENDIX A – DAILY SURFACE WATER AND OUTFALL SAMPLING LOGS

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SURFACE WATER/OUTFALL SAMPLE FIELD INFORMATION FORM

3/1/25

-2/27/2025

Site: Location:	SPS Tech	Additional Notes:											
Project Number:	45004376	8.2150					-						
Meter/Type/Serial #	: Horiba U-52 #	S/N	: PVXU	MIAA	-								
Meter Calibrated @			•				-						
Flow Meter	FH950 Meter #	S/N	: 1826	0410041	54		-						
Sampling Date/Time Sampler(s):	e: 3/1/2025	-			X.		-						
Sampling Davies:													
Sample Characteristics of the pole and sample ladle													
Analytical Paramete		DI ECU	- 1100	AL	-0.				1	*			
Analytical Parameters: Oil Concise, Four Hex Chrome, T.C.T., To Nickel, To Chromium, Diss-Nickel, Diss. Chromium MEIX, Toluene, T. Hardness										romium			
Weather Conditions	dear, 45-5	55°]								
			r										<u>.</u>
STATION /	STATION	1		TOTAL	SAMPLE	WATER					1		
SAMPLE	DESCRIPTION	DATE	TIME	DEPTH	DEPTH	TEMP	SALINITY	pН	COND	000	TUDDIDITI		
	(stream/lake/river)	mm/dd/yy	hr:min	inches	inches	Celsius	ppt	SU	mS/cm	ORP mV	TURBIDITY	DO	VELOCITY
SWS	Creek	3/1/25	0950	11.5	5.75	10.52	0.29	6.40	0.577		NTU O.O	mg/L	ft/sec ଚ.ଜ୍ୟ
	nple Characteristics:	dear	noo	dor								11000	0.01
SW4	Creek	3/1/25	1050	72	36	10.67	0.29	7.47	0,607	218	0.0	8.57	0.03
	nple Characteristics:	clear,	no od	05				i	0,001		0:0		0.05
SW3	Creek	3/1/25	1145	28	14	15.34	0.24	7.56	0.510	105	0.0	6.76	0.10
	ple Characteristics:	clear,	no odoc	-				1.0-		109	0.0	0.10	0.15
SWZ	Creek	3/1/25	1230	3.5	1.75	1445	0.24	9.06	0.493	172	0.0	910	0.111
	ple Characteristics:	clear	,00 C		1015	-1-12	0071	1.00	0.415	170	0.0	9.60	0.46
SW1	Creek	- 1.1	1315	11	5,5	14.64	0.34	7.20	0.707	222	0.0	6.63	1.50
Sam	ple Characteristics:	clear	,000	dor		11011		10-0	041011	000	0.0	0.01	1.200
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Michael Dillerson

2/27/2025

Project Number: US0043268.2150

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	OUTFALL SAMPLE	FIELD INF	ORMATIC											
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Meter Calibrated @:	0855													
Flow Meter	FH950 Meter #	S/N:	Controller.		e support.									
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SAMPLE	DESCRIPTION	DATE	TIME	DEPTH	DEPTH	TEMP	SALINITY	pН	COND	ORP	TURBIDITY	DO	VELOCITY	
	(stream/lake/river)	mm/dd/yy	hr:min	inches		Celsius	ppt	SU	mS/cm	mV	NTU	mg/L	ft/sec	
05006-030125	Outfall	03/01/25	09:40	~	-	11.77	0.3	6.60	0.716	184	0.0	5.51	~1.73	
Sar	mple Characteristics:	al ann an					1992						$\frac{1}{\frac{1}{2}} \frac{(r_{11}, r_{22}) - r_{12}}{r_{12}^{2}} \frac{(r_{12}, r_{12})}{r_{12}}$	
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APPENDIX B – DATA VALIDATION REPORT

Pre	oject Name: SPS T	lechnologies			Project Number/Phase/Task: US0043268.2150-US- SPS Client Support. Task 01						
Da Ch	viewing Company ita Evaluator: Julia iecked by: Julie Le boratory: Pace An	Campbell hrman			Project Manager: Tovah Karl Data Evaluation Date: March 3, 2025 Review Date: March 4, 2025 Lab SDG #: L2511388						
Ма	t rix: 🛛 Aqueous	🗆 Soil	□ Sediment	□ Was	te	🗆 Air	□ Other:				
An	alytical Methods:	See Table B	-1								
Sa	mple Information:	See Table B	i-1								
Wo	ork Plan or QAPP:	SPS Techno	logies Abington	PA Surf	ace \	Nater	and Outfall Sampling Plan (WSP, 2025)				
Da	ta Validation Guid	ance:									
	USEPA Nation	al Functional	Guidelines (NF	G) for Oı	gani	c Sup	erfund Methods Data Review (Nov. 2020)				
	USEPA NFG fo	or Inorganic S	Superfund Metho	ods Data	Rev	iew (N	Nov. 2020)				
		-									
СС	OC and Sample Re	ceipt		YES	NO	NA	COMMENT				
a)	COC complete and	-		\boxtimes							
b)	COC documents rel (signed and dated)?		iy	\boxtimes							
c)	Field QC types prov	ided (note type	es)?	\boxtimes			TB, See Table B-1				
d)	Did the cooler conte	ents match the	COC?	\boxtimes							
e)	Were samples recei	ved in good co	ondition?	\boxtimes							
f)	Were cooler temperative	atures within c	ontrol limits?	\boxtimes							
Da	ta Package Inform	nation		YES	NO	NA	COMMENT				
a)	Laboratory name an		umented?	\boxtimes							
b)	All samples on COC	reported in da	ata package?	\boxtimes							
c)	Requested analytica	al methods use	∍d?	\boxtimes							
d)	Requested sample p	preparation me	ethods used?	\boxtimes							
e)	Requested analyte I	ist reported?									
f)	Requested units rep	oorted?		\boxtimes							
g)	Did the laboratory d	efine the quali	fiers used?	\boxtimes							
h)	Data package conta complete the data q		tion necessary to	\boxtimes							
An	alytical Assessme	ent		YES	NO	NA	COMMENT				
a)	Solid samples repor		eight basis?			\boxtimes					
b)	Were solid samples acceptable?	percent moist	ure criteria			\boxtimes					

 \boxtimes

c) Were sample dilutions noted?

An	alytical Assessment	YES	NO	NA	COMMENT
d)	Were detected concentrations less than the QL qualified by the laboratory?	\boxtimes			
e)	Were detected concentrations above the calibration range reported by the laboratory?		\boxtimes		
f)	Did the laboratory satisfy the requested sensitivity requirements?	\boxtimes			
Lal	poratory Case Narrative	YES	NO	NA	COMMENT
a)	Do the laboratory narrative or laboratory qualifiers indicate deficiencies?		\boxtimes		
b)	Were all deficiencies noted in the laboratory qualifiers or narrative?	\boxtimes			
Sa	mple Preservation and Holding Time	YES	NO	NA	COMMENT
a)	Were samples properly preserved?	\times			
b)	Were holding times met for sample preparation?	\boxtimes			
c)	Were holding times met for sample analysis?	\boxtimes			
Bla	inks	YES	S NO	NA	COMMENTS
a)	Were blanks analyzed at the appropriate frequency?	\boxtimes			
b)	Were any analytes detected in the associated preparation/method blank?		\boxtimes		
c)	Were any analytes detected in the associated trip blanks?		\boxtimes		
d)	Were any analytes detected in the associated field or equipment/rinsate blanks?			\boxtimes	
e)	Were any analytes detected in the associated storage blanks?			\boxtimes	
	rrogates or Deuterated Monitoring mpounds	YES	NO	NA	COMMENTS
a)	Were the correct surrogate compounds added to each sample?	\boxtimes			
b)	Were surrogate recoveries within control limits?	\boxtimes			
c)	If not, were samples analyzed at dilution factors of 20x or greater?		\boxtimes		
LC	S/LCSD	YES	NO	NA	COMMENTS
a)	Were LCS/LCSD reported at the appropriate frequency?	\boxtimes			
b)	Were proper analytes included in the LCS/LCSD?	\boxtimes			
c)	Were LCS/LCSD recoveries within control limits?	\boxtimes			
d)	Were RPD values within control limits (if LCSD was analyzed)?			\boxtimes	
MS	/MSDs	YES	NO	NA	COMMENTS
a)	Were project-specific MS (and MSD) reported?	\boxtimes			SW5_030125 (total & dissolved metals)/ SW4_030125 (oil & grease)
b)	Were proper analytes reported in the MS/MSD?				((), (), (), (), (), (), (), (), (), (),

MS	S/MSDs	YES	NO	NA	COMMENTS
c)	Were project-specific MS/MSD recoveries within control limits?	\boxtimes			
d)	If not, were sample concentrations greater than 4x the spiking concentration?		\boxtimes		
e)	Was the RPD or absolute difference within control limits (if project-specific MSD analyzed)?			\boxtimes	
f)	Were project-specific post-digestion spikes analyzed?			\boxtimes	
g)	Were project-specific post-digestion spike recoveries within control limits?			\boxtimes	
Du	iplicates	YES	NO	NA	COMMENTS
a)	Were project-specific laboratory duplicates reported?	\boxtimes			SW5_030125 (total & dissolved metals, oil & grease)
b)	Was laboratory duplicate RPD or absolute difference criteria acceptable?	\boxtimes			
c)	Were field duplicates reported?		\boxtimes		
d)	Was field duplicate RPD or absolute difference criteria acceptable?			\boxtimes	
IC	P Serial Dilution (SD)	YES	NO	NA	COMMENTS
a)	Was project-specific ICP SD data provided?			\boxtimes	
b)	Were project-specific ICP SD within acceptable criteria?			\boxtimes	
Ov	verall Evaluation	YES	NO	NA	COMMENTS
a)	Were there any other technical problems not previously addressed?		\boxtimes		
b)	Were data acceptable and usable, except where noted?	\boxtimes			

Comments/Notes:

The reliability of the analytical data was evaluated to assess its suitability for use. In particular, a Stage 2A data validation was performed, which evaluates the data's precision, accuracy, and sensitivity based on adherence to sample holding times and analysis of the QC samples (duplicates, spikes, and blanks). Where appropriate, data qualifiers were applied following USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (Nov. 2020) and USEPA NFG for Inorganic Superfund Methods Data Review (Nov. 2020), as applicable to the analytical methods used by the laboratory. Based on the data review, the data was deemed suitable for project decision making as reported by the laboratory. Further detail can be found in the comments below and in Table B-2.

Data Qualification: See Table B-2

					Analyses/Parameters									
						MEK and Toluene	Oil and Grease	Total Metals	Dissolved Metals	Total Hardness	Free Cyanide	Total Cyanide	Trivalent Chromium	Hexavalent Chromium
Laboratory			Lab		Collection						SM	SM	SM	SM
Job	Field Identification	Matrix	Identification	QC Samples	Date	E624.1	E1664B	200.8	200.8	200.8	4500C	4500C	3500	3500C
L2511388	SW5_030125	WS	L2511388-01		3/1/2025	Х	Х	Х	Х	Х	Х	Х	Х	Х
L2511388	SW4_030125	WS	L2511388-02	-	3/1/2025	Х	Х	Х	Х	Х	Х	Х	Х	Х
L2511388	SW3_030125	WS	L2511388-03		3/1/2025	Х	Х	Х	Х	Х	Х	Х	Х	Х
L2511388	SW2_030125	WS	L2511388-04		3/1/2025	Х	Х	Х	Х	X	Х	Х	Х	Х
L2511388	SW1_030125	WS	L2511388-05		3/1/2025	Х	Х	Х	Х	Х	Х	Х	Х	Х
L2511388	TBSW_030125	WQ	L2511388-06	TB	3/1/2025	Х								

Notes:

1) Metal analyses were performed by Pace Analytical Mansfield Lab, all other parameters were performed at Pace Analytical Westborough Lab.

2) Total Metals include:chromium and nickel

3) Dissolved Metals include:chromium and nickel

Abbreviations:

MEK: methyl ethyl ketone (2-butanone) MS/MSD: Matrix Spike/Matrix Spike Duplicate QC: Quality Control SM: Standard Methods TB: Trip Blank WS: Surface Water WQ: Quality Control Water

Laboratory Job	Sample Name	Analyte	New Result	New MDL	New RL	Qualifier	Reason
L2511388			1	No Qualifiers	Required		
L2511388	All samples						Laboratory applied U-qualifiers indicating non-detect results and J-qualifiers indicating results below the reporting limit are retained unless other qualifications are indicated in this table. All other laboratory qualifiers are removed.

Abbreviations:

MDL: Method Detection Limit RL: Reporting Limit SDG: Sample Delivery Group Qualifiers:

Pro	oject Name: SPS Technologies			-		mber/Phase/Task: US0043268.2150-US- Support. Task 01					
Da Ch	viewing Company: WSP USA ta Evaluator: Julia Campbell ecked by: Julie Lehrman boratory: Pace Analytical LLC			Project Manager: Tovah Karl Data Evaluation Date: March 3, 2025 Review Date: March 4, 2025 Lab SDG #: L2511387							
Ма	trix: 🛛 Aqueous 🛛 🛛 Soil	□ Sediment	□ Was	te	□ Air	□ Other:					
An	alytical Methods: See Table B	-1									
Sai	mple Information: See Table E	3-1									
Wo	ork Plan or QAPP: SPS Techno	ologies Abington	PA Surf	ace \	Nater	and Outfall Sampling Plan (WSP, 2025)					
Dat	ta Validation Guidance:										
	USEPA National Functional	I Guidelines (NF	G) for Oı	gani	c Sup	erfund Methods Data Review (Nov. 2020)					
	USEPA NFG for Inorganic S	Superfund Metho	ods Data	Rev	iew (N	lov. 2020)					
	, i i i i i i i i i i i i i i i i i i i	·			,						
со	C and Sample Receipt		YES	NO	NA	COMMENT					
a)	COC complete and correct?		\boxtimes								
b)	COC documents release of custod (signed and dated)?	dy	\boxtimes								
c)	Field QC types provided (note typ	es)?	\boxtimes			TB; See Table B-1					
d)	Did the cooler contents match the	COC?	\boxtimes								
e)	Were samples received in good co	ondition?	\boxtimes								
f)	Were cooler temperatures within o	control limits?	\boxtimes								
Da	ta Package Information		YES	NO	NA	COMMENT					
a)		cumented?	\boxtimes								
b)	All samples on COC reported in d	ata package?	\boxtimes								
c)	Requested analytical methods use	ed?	\boxtimes								
d)	Requested sample preparation me	ethods used?	\boxtimes								
e)	Requested analyte list reported?		\boxtimes								
f)	Requested units reported?		\boxtimes								
g)	Did the laboratory define the quali	fiers used?	\boxtimes								
h)	Data package contains all informa complete the data quality review?	tion necessary to	\boxtimes								
An	alytical Assessment		YES	NO	NA	COMMENT					
a)	Solid samples reported on a dry-w	veight basis?			\boxtimes						
b)	Were solid samples percent moist acceptable?	ure criteria			\boxtimes						

 \boxtimes

c) Were sample dilutions noted?

An	alytical Assessment	YES	NO	NA	COMMENT
d)	Were detected concentrations less than the QL qualified by the laboratory?	\boxtimes			
e)	Were detected concentrations above the calibration range reported by the laboratory?		\boxtimes		
f)	Did the laboratory satisfy the requested sensitivity requirements?	\boxtimes			
Lab	boratory Case Narrative	YES	NO	NA	COMMENT
a)	Do the laboratory narrative or laboratory qualifiers indicate deficiencies?		\boxtimes		
b)	Were all deficiencies noted in the laboratory qualifiers or narrative?			\boxtimes	
Sai	mple Preservation and Holding Time	YES	NO	NA	COMMENT
a)	Were samples properly preserved?	\boxtimes			
b)	Were holding times met for sample preparation?	\boxtimes			
c)	Were holding times met for sample analysis?	\boxtimes			
Bla	inks	YES	NO	NA	COMMENTS
a)	Were blanks analyzed at the appropriate frequency?	\boxtimes			
b)	Were any analytes detected in the associated preparation/method blank?		\boxtimes		
c)	Were any analytes detected in the associated trip blanks?		\boxtimes		
d)	Were any analytes detected in the associated field or equipment/rinsate blanks?			\boxtimes	
e)	Were any analytes detected in the associated storage blanks?			\boxtimes	
	rrogates or Deuterated Monitoring mpounds	YES	NO	NA	COMMENTS
a)	Were the correct surrogate compounds added to each sample?	\boxtimes			
b)	Were surrogate recoveries within control limits?	\boxtimes			
c)	If not, were samples analyzed at dilution factors of 20x or greater?			\boxtimes	
LC	S/LCSD	YES	NO	NA	COMMENTS
a)	Were LCS/LCSD reported at the appropriate frequency?	\boxtimes			
b)	Were proper analytes included in the LCS/LCSD?	\boxtimes			
c)	Were LCS/LCSD recoveries within control limits?	\boxtimes			
d)	Were RPD values within control limits (if LCSD was analyzed)?			\boxtimes	
MS	/MSDs	YES	NO	NA	COMMENTS
a)	Were project-specific MS (and MSD) reported?	\boxtimes			OF006_030125 (Total Cyanide, Free Cyanide, Nitrate/Nitrite as N, Chrom Hex,
					and COD)

MS	S/MSDs	YES	NO	NA	COMMENTS
c)	Were project-specific MS/MSD recoveries within control limits?	\boxtimes			
d)	If not, were sample concentrations greater than 4x the spiking concentration?			\boxtimes	
e)	Was the RPD or absolute difference within control limits (if project-specific MSD analyzed)?			\boxtimes	
f)	Were project-specific post-digestion spikes analyzed?			\boxtimes	
g)	Were project-specific post-digestion spike recoveries within control limits?			\boxtimes	
Du	plicates	YES	NO	NA	COMMENTS
a)	Were project-specific laboratory duplicates reported?	\boxtimes			OF006_030125 (Total Cyanide, Free Cyanide, Nitrate/Nitrite as N, Chrom Hex, and COD)
b)	Was laboratory duplicate RPD or absolute difference criteria acceptable?	\boxtimes			
c)	Were field duplicates reported?		\boxtimes		
d)	Was field duplicate RPD or absolute difference criteria acceptable?			\boxtimes	
ICI	P Serial Dilution (SD)	YES	NO	NA	COMMENTS
a)	Was project-specific ICP SD data provided?			\boxtimes	
b)	Were project-specific ICP SD within acceptable criteria?			\boxtimes	
Ov	erall Evaluation	YES	NO	NA	COMMENTS
a)	Were there any other technical problems not previously addressed?		\boxtimes		
b)	Were data acceptable and usable, except where noted?	\boxtimes			

Comments/Notes:

The reliability of the analytical data was evaluated to assess its suitability for use. In particular, a Stage 2A data validation was performed, which evaluates the data's precision, accuracy, and sensitivity based on adherence to sample holding times and analysis of the QC samples (duplicates, spikes, and blanks). Where appropriate, data qualifiers were applied following USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (Nov. 2020) and USEPA NFG for Inorganic Superfund Methods Data Review (Nov. 2020), as applicable to the analytical methods used by the laboratory. Based on the data review, the data was deemed suitable for project decision making as reported by the laboratory.

Data Qualification: See Table B-2

						Analyses/Parameters											
						MEK and Toluene	Chemical Oxygen Demand	Total Suspended Solids	Nitrate-Nitrite as N	Oil and Grease	Total Metals	Dissolved Metals	Total Hardness	Free Cyanide	Total Cyanide	Trivalent Chromium	Hexavalent Chromium
Laboratory			Lab		Collection			SM						SM	SM	SM	SM
Job	Field Identification	Matrix	Identification	QC Samples	Date	E624.1	E410.4	2540D	E353.2	E1664B	200.8	200.8	200.8	4500C	4500C	3500	3500C
L2511387	OF006_030125	WS	L2511387-01		3/1/2025	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
L2511387	TBOF_0301	WQ	L2511387-02	TB	3/1/2025	X											

Notes:

1) Metal analyses were performed by Pace Analytical Mansfield Lab, all other parameters were performed at Pace Analytical Westborough Lab.

2) Total Metals include: aluminum, copper, chromium, iron, nickel, and zinc

3) Dissovled Metals include: chromium and nickel

Abbreviations:

MEK: methyl ethyl ketone (2-butanone) MS/MSD: Matrix Spike/Matrix Spike Duplicate QC: Quality Control

SM: Standard Methods

TB: Trip Blank

WS: Surface Water

WQ: Quality Control Water

Laboratory Job	Sample Name	Analyte	New Result	New MDL	New RL	Qualifier	Reason
L2511387			1	No Qualifiers	Required		
L2511387	All samples						Laboratory applied U-qualifiers indicating non-detect results and J-qualifiers indicating results below the reporting limit are retained unless other qualifications are indicated in this table. All other laboratory qualifiers are removed.

Abbreviations:

Qualifiers:

MDL: Method Detection Limit MS/MSD: Matrix Spike/Matrix Spike Duplicate RL: Reporting Limit SDG: Sample Delivery Group **APPENDIX C – LABORATORY ANALYTICAL REPORTS**



ANALYTICAL REPORT

Lab Number:	L2511387
Client:	WSP USA Inc.
	10 Lake Center Drive
	Suite 205
	Marlton, NJ 08053
ATTN:	Julie Lehrman
Phone:	(856) 793-2005
Project Name:	SPS TECHNOLOGIES
Project Number:	US0043268.2150
Report Date:	03/03/25

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).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Serial_No:03032514:25

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2511387

 Report Date:
 03/03/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2511387-01	OF006_030125	WATER	JENKINTOWN, PA	03/01/25 09:40	03/01/25
L2511387-02	TBOF_0301	WATER	JENKINTOWN, PA	03/01/25 00:00	03/01/25



Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150

Lab Number: L2511387 Report Date: 03/03/25

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: SPS TECHNOLOGIES Project Number: US0043268.2150
 Lab Number:
 L2511387

 Report Date:
 03/03/25

Case Narrative (continued)

Report Submission

March 03, 2025: This final report includes the results of all requested analyses.

March 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.

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.

Melissa Sturgis Melissa Sturgis

Authorized Signature:

Title: Technical Director/Representative

Date: 03/03/25

ORGANICS



VOLATILES



			Serial_No	0:03032514:25
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2511387
Project Number:	US0043268.2150		Report Date:	03/03/25
		SAMPLE RESULTS		
Lab ID:	L2511387-01		Date Collected:	03/01/25 09:40
Client ID:	OF006_030125		Date Received:	03/01/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	03/02/25 12:06			
Analyst:	GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	stborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			84		6	60-140
Fluorobenzene			81		6	60-140
4-Bromofluorobenzene			111		6	60-140

			Serial_No	0:03032514:25
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2511387
Project Number:	US0043268.2150		Report Date:	03/03/25
		SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2511387-02 TBOF_0301 JENKINTOWN, PA		Date Collected: Date Received: Field Prep:	03/01/25 00:00 03/01/25 Not Specified
Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst:	Water 128,624.1 03/02/25 08:26 GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	stborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			87		6	60-140
Fluorobenzene			79		6	60-140
4-Bromofluorobenzene			111		6	60-140



Project Name:	SPS TECHNOLOGIES	Lab Number:	L2511387
Project Number:	US0043268.2150	Report Date:	03/03/25

Method Blank Analysis Batch Quality Control

Analytical Method:128,624.1Analytical Date:03/02/25 07:55Analyst:GMT

Parameter	Result	Qualifier Units	s RL	MDL	
Volatile Organics by GC/MS -	Westborough Lab f	for sample(s):	01-02 Batch:	WG2035745-4	
Toluene	ND	mg/	l 0.0010	0.00031	
2-Butanone	ND	mg/	l 0.010	0.0010	

		Acceptance		
Surrogate	%Recovery	Qualifier Criteria		
Pentafluorobenzene	86	60-140		
Fluorobenzene	78	60-140		
4-Bromofluorobenzene	111	60-140		



Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

 Lab Number:
 L2511387

 Report Date:
 03/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Volatile Organics by GC/MS - Westbore	ough Lab Associat	ed sample(s)	: 01-02 Batch	: WG203	5745-3				
Toluene	110		-		70-130	-		41	
2-Butanone	82		-		60-140	-		30	

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
Pentafluorobenzene	89		60-140
Fluorobenzene	91		60-140
4-Bromofluorobenzene	114		60-140



METALS



Serial_No:03032514:25

Project Name:	SPS TECHNOLOGIES		Lab Number:	L2511387
Project Number:	US0043268.2150		Report Date:	03/03/25
		SAMPLE RESULTS		
Lab ID:	L2511387-01		Date Collected:	03/01/25 09:40
Client ID:	OF006_030125		Date Received:	03/01/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Ma	nsfield Lab										
Aluminum, Total	0.00836	J	mg/l	0.01000	0.00327	1	03/02/25 06:42	03/02/25 16:47	EPA 3005A	3,200.8	TAA
Chromium, Total	0.00025	J	mg/l	0.00100	0.00017	1	03/02/25 06:42	03/02/25 16:47	EPA 3005A	3,200.8	TAA
Copper, Total	0.00250		mg/l	0.00100	0.00038	1	03/02/25 06:42	03/02/25 16:47	EPA 3005A	3,200.8	TAA
Iron, Total	0.2045		mg/l	0.05000	0.01910	1	03/02/25 06:42	03/02/25 16:47	EPA 3005A	3,200.8	TAA
Lead, Total	0.00041	J	mg/l	0.00100	0.00034	1	03/02/25 06:42	03/02/25 16:47	EPA 3005A	3,200.8	TAA
Nickel, Total	0.00218		mg/l	0.00200	0.00055	1	03/02/25 06:42	03/02/25 16:47	EPA 3005A	3,200.8	TAA
Zinc, Total	0.07488		mg/l	0.00500	0.00341	1	03/02/25 06:42	03/02/25 16:47	EPA 3005A	3,200.8	TAA
Total Hardness (t	by calculatio	n) - Mansfi	eld Lab								
Hardness	224.3		mg/l	0.5400	NA	1	03/02/25 06:42	03/02/25 16:47	EPA 3005A	3,200.8	TAA

General Chemistry -	Mansfield Lab							
Chromium, Trivalent	ND	mg/l	0.010	0.003	1	03/02/25 16:47	NA	107,-
Dissolved Metals - N	lansfield Lab							

Chromium, Dissolved	0.0002	J	mg/l	0.0010	0.0002	1	03/03/25 06:25 03/03/25 11:22 EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0022		mg/l	0.0020	0.0006	1	03/03/25 06:25 03/03/25 11:22 EPA 3005A	3,200.8	BLR

Pace

Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150
 Lab Number:
 L2511387

 Report Date:
 03/03/25

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfi	eld Lab for sample(s):	01 Batc	h: WG20	35643-	1				
Aluminum, Total	ND	mg/l	0.01000	0.00327	' 1	03/02/25 06:42	03/02/25 16:26	3,200.8	ТАА
Chromium, Total	ND	mg/l	0.00100	0.00017	' 1	03/02/25 06:42	03/02/25 16:26	3,200.8	TAA
Copper, Total	ND	mg/l	0.00100	0.00038	3 1	03/02/25 06:42	03/02/25 16:26	3,200.8	TAA
Iron, Total	ND	mg/l	0.05000	0.01910) 1	03/02/25 06:42	03/02/25 16:26	3,200.8	TAA
Lead, Total	ND	mg/l	0.00100	0.00034	1	03/02/25 06:42	03/02/25 16:26	3,200.8	TAA
Nickel, Total	ND	mg/l	0.00200	0.00055	5 1	03/02/25 06:42	03/02/25 16:26	3,200.8	TAA
Zinc, Total	ND	mg/l	0.00500	0.00341	1	03/02/25 06:42	03/02/25 16:26	3,200.8	TAA

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness (by ca	alculation) - Mansfield L	ab for sa	mple(s):	01 Ba	tch: WG20)35643-1			
Hardness	ND	mg/l	0.5400	NA	1	03/02/25 06:42	03/02/25 16:26	3,200.8	TAA

Prep Information

Digestion Method: EPA 3005A

Parameter	Result (Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Ma	ansfield Lab	for sample	(s): 01	Batch: V	/G2035	844-1				
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/03/25 06:25	03/03/25 10:37	3,200.8	BLR
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	1	03/03/25 06:25	03/03/25 10:37	3,200.8	BLR

Prep Information

Digestion Method: EPA 3005A

Pace

Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150 Lab Number: L2511387 Report Date: 03/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sam	ple(s): 01 Bat	ch: WG20)35643-2					
Aluminum, Total	103		-		85-115	-		
Chromium, Total	110		-		85-115	-		
Copper, Total	104		-		85-115	-		
Iron, Total	103		-		85-115	-		
Lead, Total	96		-		85-115	-		
Nickel, Total	104		-		85-115	-		
Zinc, Total	104		-		85-115	-		
Total Hardness (by calculation) - Mansfield La	b Associated s	sample(s):	01 Batch: WG	2035643-2				
Hardness	106		-		85-115	-		
Dissolved Metals - Mansfield Lab Associated	sample(s): 01	Batch: V	VG2035844-2					
Chromium, Dissolved	106		-		85-115	-		
Nickel, Dissolved	113		-		85-115	-		

Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150 Lab Number: L2511387 **Report Date:** 03/03/25

Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
b Associated sam	ple(s): 01	QC Batch I	D: WG203564	3-3 C	C Sample:	L2511388-01	Clien	t ID: MS Sa	ample		
0.0216	2	2.043	101		-	-		70-130	-		20
0.00026J	0.2	0.2251	112		-	-		70-130	-		20
0.0023	0.25	0.2573	102		-	-		70-130	-		20
0.1932	1	1.199	100		-	-		70-130	-		20
ND	0.53	0.4955	93		-	-		70-130	-		20
0.00226	0.5	0.5082	101		-	-		70-130	-		20
0.0111	0.5	0.5073	99		-	-		70-130	-		20
ion) - Mansfield La	ab Associa	ited sample(s	s): 01 QC Ba	tch ID:	NG203564	3-3 QC San	nple: L2	2511388-01	Client	ID: N	IS Sample
202.6	66.2	267.8	98		-	-		70-130	-		20
ld Lab Associated	sample(s)	: 01 QC Ba	atch ID: WG20	35844-3	QC Sar	mple: L251138	8-01	Client ID: N	IS Samp	ble	
0.0004J	0.2	0.2041	102		-	-		70-130	-		20
0.0021	0.5	0.5288	105		-	-		70-130	-		20
	Sample b Associated sam 0.0216 0.0026J 0.00026J 0.0023 0.1932 ND 0.00226 0.0111 ion) - Mansfield La 202.6 d Lab Associated 0.0004J	Sample Added 0.38000100000000000000000000000000000000	Sample Added Found b Associated sample(s): 01 QC Batch I 0.0216 2 2.043 0.00026J 0.2 0.2251 0.00026J 0.2 0.22573 0.0023 0.25 0.2573 0.1932 1 1.199 0.00226 0.53 0.4955 0.00226 0.5 0.5082 0.00111 0.5 0.5073 ion) - Mansfield Lab Associated sample(s) 267.8 0.0004J 0.2 0.2041	Sample Added Found %Recovery b Associated sample(s): 01 QC Batch UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	Sample Added Found %Recovery Qual b Associated sample(s): 01 QC Batch ID: WG20356433 Q	Sample Added Found %Recovery Qual Found b Associated sample(s): 01 QC Batch ID: VG2035643-3 QC Samples 0.0216 2 2.043 101 - 0.0026J 0.2 0.2251 112 - - 0.0026J 0.2 0.2573 102 - - - 0.0023 0.25 0.2573 102 - - - 0.0023 0.25 0.2573 102 - - - 0.1932 1 1.199 100 - - - - 0.00226 0.53 0.5082 101 - <td< td=""><td>Sample Added Found %Recovery Qual Found %Recovery b Associated sample(s): 01 QC Batch ID: WG2035643-3 QC Sample: L2511388-01 0.0216 2 2.043 101 - - 0.0026J 0.2 0.2251 112 - - 0.00026J 0.2 0.2573 102 - - 0.0023 0.25 0.2573 102 - - 0.1932 1 1.199 100 - - 0.00226 0.5 0.5082 101 - - 0.00226 0.5 0.5082 101 - - 0.0011 0.5 0.5073 99 - - ion) - Mansfield Lab Associated sample(s): U1 QC Batch ID: WG2035643-3 QC Sample: L251138 202.6 66.2 267.8 98 - - d Lab Associated sample(s): U1 QC Batch ID: WG2035844-3 QC Sample: L251138 - - 0.0004J 0.</td><td>Sample Added Found %Recovery Qual Mode %Recovery Qual b Associated sample(s): 01 QC Batch ID: WG2035643-3 QC Sample: L2511388-01 Client -</td><td>Sample Added Found %Recovery Qual Found %Recovery Qual Limits b Associated sample(s): 01 QC Batch ID: WG2035643-3 QC Sample: L2511388-01 Client ID: MS Sa 0.0216 2 2.043 101 - - 70-130 0.00026J 0.2 0.2251 112 - - 70-130 0.00023 0.25 0.2573 102 - - 70-130 0.0023 0.25 0.2573 102 - - 70-130 0.1932 1 1.199 100 - - 70-130 0.00226 0.5 0.5082 101 - - 70-130 0.00226 0.5 0.5073 99 - - 70-130 0.0111 0.5 0.5073 99 - - 70-130 ion) - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2035643-3 QC Sample: L2511388-01 70-130 202.6 66.2 267.8</td><td>Sample Added Found %Recovery Qual Found %Recovery Qual Limits RPD b Associated sample(s): 01 QC Batch ID: WG2035643-3 QC Sample: L2511388-01 Client ID: MS Sample 0.0216 2 2.043 101 - 70-130 - 0.0026J 0.2 0.2251 112 - 70-130 - 0.0023 0.25 0.2573 102 - 70-130 - 0.0023 0.25 0.2573 102 - 70-130 - 0.1932 1 1.199 100 - 70-130 - 0.00266 0.5 0.5082 101 - 70-130 - 0.0021 0.5 0.5073 99 - - 70-130 - 0.0011 0.5 0.5073 99 - - 70-130 - ion) - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2035643-3 QC Sample: L2511388-01 Client ID: MS Sample</td><td>Sample Added Found %Recovery Qual Found %Recovery Qual Limits RPD Qual b Associated sample(s): 01 QC Batch ID: VS2035643-3 QC Sample: L2511388-01 Client ID: MS Sample 0.0216 2 2.043 101 - - 70-130 - 0.0206J 0.2 0.2251 112 - - 70-130 - 0.00023 0.25 0.2573 102 - - 70-130 - 0.0023 0.25 0.2573 102 - - 70-130 - 0.1932 1 1.199 100 - - 70-130 - 0.00226 0.5 0.5082 101 - - 70-130 - 0.0011 0.5 0.5073 99 - - 70-130 - ion) - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2035643-3 QC Sample: L2511388-01 Client ID: MS Sample <td< td=""></td<></td></td<>	Sample Added Found %Recovery Qual Found %Recovery b Associated sample(s): 01 QC Batch ID: WG2035643-3 QC Sample: L2511388-01 0.0216 2 2.043 101 - - 0.0026J 0.2 0.2251 112 - - 0.00026J 0.2 0.2573 102 - - 0.0023 0.25 0.2573 102 - - 0.1932 1 1.199 100 - - 0.00226 0.5 0.5082 101 - - 0.00226 0.5 0.5082 101 - - 0.0011 0.5 0.5073 99 - - ion) - Mansfield Lab Associated sample(s): U1 QC Batch ID: WG2035643-3 QC Sample: L251138 202.6 66.2 267.8 98 - - d Lab Associated sample(s): U1 QC Batch ID: WG2035844-3 QC Sample: L251138 - - 0.0004J 0.	Sample Added Found %Recovery Qual Mode %Recovery Qual b Associated sample(s): 01 QC Batch ID: WG2035643-3 QC Sample: L2511388-01 Client -	Sample Added Found %Recovery Qual Found %Recovery Qual Limits b Associated sample(s): 01 QC Batch ID: WG2035643-3 QC Sample: L2511388-01 Client ID: MS Sa 0.0216 2 2.043 101 - - 70-130 0.00026J 0.2 0.2251 112 - - 70-130 0.00023 0.25 0.2573 102 - - 70-130 0.0023 0.25 0.2573 102 - - 70-130 0.1932 1 1.199 100 - - 70-130 0.00226 0.5 0.5082 101 - - 70-130 0.00226 0.5 0.5073 99 - - 70-130 0.0111 0.5 0.5073 99 - - 70-130 ion) - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2035643-3 QC Sample: L2511388-01 70-130 202.6 66.2 267.8	Sample Added Found %Recovery Qual Found %Recovery Qual Limits RPD b Associated sample(s): 01 QC Batch ID: WG2035643-3 QC Sample: L2511388-01 Client ID: MS Sample 0.0216 2 2.043 101 - 70-130 - 0.0026J 0.2 0.2251 112 - 70-130 - 0.0023 0.25 0.2573 102 - 70-130 - 0.0023 0.25 0.2573 102 - 70-130 - 0.1932 1 1.199 100 - 70-130 - 0.00266 0.5 0.5082 101 - 70-130 - 0.0021 0.5 0.5073 99 - - 70-130 - 0.0011 0.5 0.5073 99 - - 70-130 - ion) - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2035643-3 QC Sample: L2511388-01 Client ID: MS Sample	Sample Added Found %Recovery Qual Found %Recovery Qual Limits RPD Qual b Associated sample(s): 01 QC Batch ID: VS2035643-3 QC Sample: L2511388-01 Client ID: MS Sample 0.0216 2 2.043 101 - - 70-130 - 0.0206J 0.2 0.2251 112 - - 70-130 - 0.00023 0.25 0.2573 102 - - 70-130 - 0.0023 0.25 0.2573 102 - - 70-130 - 0.1932 1 1.199 100 - - 70-130 - 0.00226 0.5 0.5082 101 - - 70-130 - 0.0011 0.5 0.5073 99 - - 70-130 - ion) - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2035643-3 QC Sample: L2511388-01 Client ID: MS Sample <td< td=""></td<>



Lab Duplicate Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01	QC Batch ID: WG2	035643-4 QC Sample: L25	11388-01 Clie	ent ID: DUF	P Sample
Chromium, Total	0.00026J	0.00024J	mg/l	NC	20
Nickel, Total	0.00226	0.00219	mg/l	3	20
Total Hardness (by calculation) - Mansfield Lab Associat	ed sample(s): 01 C	QC Batch ID: WG2035643-4	QC Sample:	L2511388-	-01 Client ID: DUP Sample
Hardness	202.6	191.0	mg/l	6	20
Dissolved Metals - Mansfield Lab Associated sample(s):	01 QC Batch ID: V	WG2035844-4 QC Sample:	L2511388-01	Client ID:	DUP Sample
Chromium, Dissolved	0.0004J	ND	mg/l	NC	20
Nickel, Dissolved	0.0021	0.0022	mg/l	4	20



INORGANICS & MISCELLANEOUS



Serial_No:03032514:25

L2511387

03/03/25

Lab Number:

Report Date:

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

SAMPLE RESULTS

Lab ID:	L2511387-01	Date Collected:	03/01/25 09:40
Client ID:	OF006_030125	Date Received:	03/01/25
Sample Location:	JENKINTOWN, PA	Field Prep:	Not Specified

Sample Depth: Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lat)								
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	03/02/25 06:28	121,2540D	BAY
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/02/25 08:50	03/02/25 17:39	121,4500CN-CE	SRM
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/02/25 03:27	121,4500CN-	KAF
Nitrogen, Nitrate/Nitrite	4.2		mg/l	0.10	0.046	1	-	03/02/25 03:47	E(M) 44,353.2	KAF
Chemical Oxygen Demand	23.		mg/l	20	6.0	1	03/02/25 09:30	03/02/25 11:48	44,410.4	MRW
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/02/25 10:37	03/02/25 13:53	140,1664B	IYM
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/02/25 04:05	03/02/25 04:21	121,3500CR-B	KAF

Pace

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2511387

 Report Date:
 03/03/25

Method Blank Analysis Batch Quality Control

Parameter	Result Q	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westbo	orough Lab	for sam	ple(s): 01	Batch:	WG203	35621-1				
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	03/02/25 03:31	44,353.2	KAF
General Chemistry - Westbo	brough Lab	for sam	ple(s): 01	Batch:	WG203	35622-1				
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/02/25 03:27	121,4500CN-E(N	I) KAF
General Chemistry - Westbo	brough Lab	for sam	ple(s): 01	Batch:	WG203	35623-1				
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/02/25 04:05	03/02/25 04:17	121,3500CR-B	KAF
General Chemistry - Westbo	brough Lab	for sam	ple(s): 01	Batch:	WG203	35644-1				
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	03/02/25 06:28	121,2540D	BAY
General Chemistry - Westbo	brough Lab	for sam	ple(s): 01	Batch:	WG203	35658-1				
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/02/25 08:50	03/02/25 17:36	121,4500CN-CE	SRM
General Chemistry - Westbo	brough Lab	for sam	ple(s): 01	Batch:	WG203	35679-1				
Chemical Oxygen Demand	ND		mg/l	20	6.0	1	03/02/25 09:30	03/02/25 11:43	44,410.4	MRW
General Chemistry - Westbo	brough Lab	for sam	ple(s): 01	Batch:	WG203	35695-1				
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/02/25 10:37	03/02/25 13:24	140,1664B	IYM

Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150 Lab Number: L2511387 Report Date: 03/03/25

%Recovery LCS LCSD %Recovery %Recovery Limits **RPD Limits** Qual RPD Parameter Qual Qual General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2035621-2 Nitrogen, Nitrate/Nitrite 102 90-110 -General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2035622-2 Cyanide, Free 92 90-110 -General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2035623-2 Chromium, Hexavalent 100 85-115 20 -General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2035644-2 Solids, Total Suspended 93 80-120 General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2035658-2 Cyanide, Total 90 90-110 General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2035679-2 Chemical Oxygen Demand 92 90-110 -General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2035695-2 Oil & Grease, Hem-Grav 84 -78-114 18



Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150 Lab Number: L2511387 **Report Date:** 03/03/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery Qu	Recovery al Limits F	RPD Qual	RPD Limits
General Chemistry - West	oorough Lab Assoc	iated samp	ole(s): 01	QC Batch ID: W	VG2035621-4	QC Sample: L25113	87-01 Client ID	: OF006_03	30125
Nitrogen, Nitrate/Nitrite	4.2	4	7.7	88	-	-	80-120	-	20
General Chemistry - Westh	oorough Lab Assoc	iated samp	ole(s): 01	QC Batch ID: V	VG2035622-4	QC Sample: L25113	87-01 Client ID	: OF006_03	30125
Cyanide, Free	ND	0.25	0.217	87	-	-	80-120	-	20
General Chemistry - Westh	oorough Lab Assoc	iated samp	ole(s): 01	QC Batch ID: V	VG2035623-4	QC Sample: L25113	87-01 Client ID	: OF006_03	30125
Chromium, Hexavalent	ND	0.1	0.090	90	-	-	85-115	-	20
General Chemistry - Westh	oorough Lab Assoc	iated samp	ole(s): 01	QC Batch ID: V	VG2035658-3	QC Sample: L25113	87-01 Client ID	: OF006_03	30125
Cyanide, Total	ND	0.2	0.192	96	-	-	90-110	-	30
General Chemistry - Westh	oorough Lab Assoc	iated samp	ole(s): 01	QC Batch ID: V	VG2035679-4	QC Sample: L25113	87-01 Client ID	: OF006_03	30125
Chemical Oxygen Demand	23.	238	250	95	-	-	90-110	-	20
General Chemistry - Westh	oorough Lab Assoc	iated samp	ole(s): 01	QC Batch ID: V	VG2035695-4	QC Sample: L25113	88-02 Client ID	: MS Samp	le
Oil & Grease, Hem-Grav	ND	40.8	37	91	-	-	78-114	-	18

Pace

Lab Duplicate Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150

Lab Number: L2511387 Report Date: 03/03/25

Parameter	Nativ	e Sample	Duplicate Sa	ample Unit	s RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 0)1 QC Ba	tch ID: WG2035621-	3 QC Sample:	L2511387-01	Client ID:	OF006_030125
Nitrogen, Nitrate/Nitrite		4.2	4.2	mg/l	0		20
General Chemistry - Westborough Lab	Associated sample(s): 0	1 QC Ba	tch ID: WG2035622-	3 QC Sample:	L2511387-01	Client ID:	OF006_030125
Cyanide, Free		ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s): 0)1 QC Ba	tch ID: WG2035623-	3 QC Sample:	L2511387-01	Client ID:	OF006_030125
Chromium, Hexavalent		ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s): 0	1 QC Ba	tch ID: WG2035644-	3 QC Sample:	L2469027-91	Client ID:	DUP Sample
Solids, Total Suspended		1700	1500	mg/	13		32
General Chemistry - Westborough Lab	Associated sample(s): 0)1 QC Ba	tch ID: WG2035658-	4 QC Sample:	L2511387-01	Client ID:	OF006_030125
Cyanide, Total		ND	ND	mg/	NC		30
General Chemistry - Westborough Lab	Associated sample(s): 0)1 QC Ba	tch ID: WG2035679-	3 QC Sample:	L2511387-01	Client ID:	OF006_030125
Chemical Oxygen Demand		23.	19.J	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s): 0	1 QC Ba	tch ID: WG2035695-	3 QC Sample:	L2511388-01	Client ID:	DUP Sample
Oil & Grease, Hem-Grav		ND	ND	mg/	NC		18



Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150

Sample Receipt and Container Information

Frozen Date/Time

Analysis(*)

Were project specific reporting limits specified?

Cooler Information

Cooler	Custody Seal
A	Present/Intact
В	Present/Intact
С	Present/Intact

B C	Present/Intact Present/Intact						
Container Info Container ID	rmation Container Type	Cooler	lnitial pH	Final pH	Temp deg C	Pres	Seal
L2511387-01A	Vial Na2S2O3 preserved	А	NA		2.6	Y	Present/Intac

YES

				-	0 .		- Coul	
L2511387-01A	Vial Na2S2O3 preserved	А	NA		2.6	Y	Present/Intact	624.1-PPM(7)
L2511387-01B	Vial Na2S2O3 preserved	А	NA		2.6	Y	Present/Intact	624.1-PPM(7)
L2511387-01C	Vial Na2S2O3 preserved	А	NA		2.6	Y	Present/Intact	624.1-PPM(7)
L2511387-01D	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Present/Intact	AL-2008T(180),NI-2008T(180),ZN- 2008T(180),HARDT-2008(180),CU- 2008T(180),FE-2008T(180),CR- 2008T(180),PB-2008T(180)
L2511387-01E	Plastic 250ml unpreserved	А	6	6	2.6	Y	Present/Intact	-
L2511387-01F	Plastic 250ml H2SO4 preserved	А	<2	<2	2.6	Y	Present/Intact	NO3/NO2-353(28),COD-410(28)
L2511387-01G	Plastic 250ml NaOH preserved	А	>12	>12	2.6	Y	Present/Intact	TCN-4500(14)
L2511387-01H	Plastic 500ml unpreserved	А	6	6	2.6	Y	Present/Intact	HEXCR-3500(1),FCN(1)
L2511387-01J	Plastic 950ml unpreserved	А	6	6	2.6	Y	Present/Intact	TSS-2540(7)
L2511387-01K	Amber 1L HCI preserved	А	NA		2.6	Y	Present/Intact	OG-1664(28)
L2511387-01L	Amber 1L HCI preserved	А	NA		2.6	Y	Present/Intact	OG-1664(28)
L2511387-01W	Plastic 120ml HNO3 preserved Filtrates	А	NA		2.6	Y	Present/Intact	CR-2008S(180),NI-2008S(180)
L2511387-02A	Vial Na2S2O3 preserved	А	NA		2.6	Y	Present/Intact	624.1-PPM(7)
L2511387-02B	Vial Na2S2O3 preserved	А	NA		2.6	Y	Present/Intact	624.1-PPM(7)



Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2511387

Report Date: 03/03/25

GLOSSARY

Acronyms

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 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.
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.
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.

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Project Number: US0043268.2150

Lab Number: L2511387 **Report Date:** 03/03/25

Footnotes

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

Terms

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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 Waterpreserved 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.
- B - 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).
- С - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- Е - 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.
- н - 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

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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.
- V 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



 Lab Number:
 L2511387

 Report Date:
 03/03/25

REFERENCES

- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 107 Calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 128 Method 624.1: Purgeables by GC/MS, EPA 821-R-16-008, December 2016.
- 140 Method 1664, Revision B: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-10-001, February 2010.

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.



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: <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270E: <u>NPW:</u> Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine. SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: 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 I, 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: AI, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: AI, 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

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.

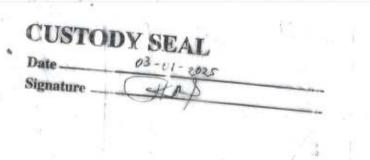
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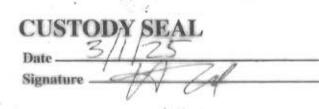
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Custody Seal received intact from Client. Seal broken by Alpha Representative to add ice

Apply this label over or close to original seal

90009





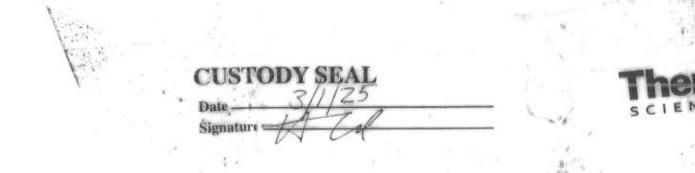
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Custody Seal received intact from Client. Seal broken by Alpha Representative to add ice

Apply this label over or close to original seal

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ALPHA ANALYTICAL

Custody Seal received intact from Client. Seal broken by Alpha Representative to add ice

Apply this label over or close to original seal



ANALYTICAL REPORT

Lab Number:	L2511388
Client:	WSP USA Inc.
	10 Lake Center Drive
	Suite 205
	Marlton, NJ 08053
ATTN:	Julie Lehrman
Phone:	(856) 793-2005
Project Name:	SPS TECHNOLOGIES
Project Number:	US0043268.2150
Report Date:	03/03/25

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).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Serial_No:03032514:25

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2511388

 Report Date:
 03/03/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2511388-01	SW5_030125	WATER	JENKINTOWN, PA	03/01/25 09:50	03/01/25
L2511388-02	SW4_030125	WATER	JENKINTOWN, PA	03/01/25 10:50	03/01/25
L2511388-03	SW3_030125	WATER	JENKINTOWN, PA	03/01/25 11:45	03/01/25
L2511388-04	SW2_030125	WATER	JENKINTOWN, PA	03/01/25 12:30	03/01/25
L2511388-05	SW1_030125	WATER	JENKINTOWN, PA	03/01/25 13:15	03/01/25
L2511388-06	TBSW_030125	WATER	JENKINTOWN, PA	03/01/25 00:00	03/01/25

Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150 Lab Number: L2511388 Report Date: 03/03/25

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: SPS TECHNOLOGIES Project Number: US0043268.2150
 Lab Number:
 L2511388

 Report Date:
 03/03/25

Case Narrative (continued)

Report Submission

March 03, 2025: This final report includes the results of all requested analyses.

March 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.

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.

Melissa Sturgis Melissa Sturgis

Authorized Signature:

Title: Technical Director/Representative

Date: 03/03/25

ce

ORGANICS



VOLATILES



			Serial_No	0:03032514:25
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2511388
Project Number:	US0043268.2150		Report Date:	03/03/25
		SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2511388-01 SW5_030125 JENKINTOWN, PA		Date Collected: Date Received: Field Prep:	03/01/25 09:50 03/01/25 Not Specified
Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst:	Water 128,624.1 03/02/25 11:34 GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	stborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			82		6	60-140
Fluorobenzene			78		6	60-140
4-Bromofluorobenzene			110		6	60-140



			Serial_No	0:03032514:25
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2511388
Project Number:	US0043268.2150		Report Date:	03/03/25
		SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2511388-02 SW4_030125 JENKINTOWN, PA		Date Collected: Date Received: Field Prep:	03/01/25 10:50 03/01/25 Not Specified
Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst:	Water 128,624.1 03/02/25 11:03 GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	stborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			85		6	60-140
Fluorobenzene			79		6	60-140
4-Bromofluorobenzene			106		6	60-140



			Serial_N	0:03032514:25
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2511388
Project Number:	US0043268.2150		Report Date:	03/03/25
		SAMPLE RESULTS		
Lab ID:	L2511388-03		Date Collected:	03/01/25 11:45
Client ID:	SW3_030125		Date Received:	03/01/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	03/02/25 10:31			
Analyst:	GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - We	stborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifie		ptance iteria
Pentafluorobenzene			83		6	60-140
Fluorobenzene			81		6	60-140
4-Bromofluorobenzene			108		6	60-140



			Serial_No	0:03032514:25
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2511388
Project Number:	US0043268.2150		Report Date:	03/03/25
		SAMPLE RESULTS		
Lab ID:	L2511388-04		Date Collected:	03/01/25 12:30
Client ID:	SW2_030125		Date Received:	03/01/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	03/02/25 10:00			
Analyst:	GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - We	stborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			84		6	60-140
Fluorobenzene			80		6	60-140
4-Bromofluorobenzene			112		6	60-140



			Serial_N	0:03032514:25
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2511388
Project Number:	US0043268.2150		Report Date:	03/03/25
		SAMPLE RESULTS		
Lab ID:	L2511388-05		Date Collected:	03/01/25 13:15
Client ID:	SW1_030125		Date Received:	03/01/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	03/02/25 09:29			
Analyst:	GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	stborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			87		6	60-140
Fluorobenzene			80		6	60-140
4-Bromofluorobenzene			110		6	60-140



			Serial_N	0:03032514:25
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2511388
Project Number:	US0043268.2150		Report Date:	03/03/25
		SAMPLE RESULTS		
Lab ID:	L2511388-06		Date Collected:	03/01/25 00:00
Client ID:	TBSW_030125		Date Received:	03/01/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	03/02/25 08:58			
Analyst:	GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	tborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			85		6	60-140
Fluorobenzene			82		6	60-140
4-Bromofluorobenzene			113		6	60-140

Pace

 Project Name:
 SPS TECHNOLOGIES
 Lab Number:
 L2511388

 Project Number:
 US0043268.2150
 Report Date:
 03/03/25

Method Blank Analysis Batch Quality Control

Analytical Method:128,624.1Analytical Date:03/02/25 07:55Analyst:GMT

Parameter	Result	Qualifier Units	RL	MDL	
Volatile Organics by GC/MS -	Westborough Lab	for sample(s): 01-	-06 Batch:	WG2035745-4	
Toluene	ND	mg/l	0.0010	0.00031	
2-Butanone	ND	mg/l	0.010	0.0010	

		Acceptance
Surrogate	%Recovery	Qualifier Criteria
Pentafluorobenzene	86	60-140
Fluorobenzene	78	60-140
4-Bromofluorobenzene	111	60-140

Pace

Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

 Lab Number:
 L2511388

 Report Date:
 03/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Volatile Organics by GC/MS - Westbor	rough Lab Associate	ed sample(s)	: 01-06 Batch	: WG203	35745-3				
Toluene	110		-		70-130	-		41	
2-Butanone	82		-		60-140	-		30	

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
Pentafluorobenzene	89		60-140
Fluorobenzene	91		60-140
4-Bromofluorobenzene	114		60-140



METALS



Project Name: Project Number:	SPS TECHNOLOGIES US0043268.2150			SAMPL		ште	Lab Nu Report		L25113 03/03/2		
Lab ID: Client ID: Sample Location:	SW5_	L2511388-01 SW5_030125 JENKINTOWN, PA						Date Collected: Date Received: Field Prep:		03/01/25 09:50 03/01/25 Not Specified	
Sample Depth: Matrix: Parameter	Water Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
		Quanner	Units	RL.							Analyst
Total Metals - Mans	field Lab										
Chromium, Total	0.00026	J	mg/l	0.00100	0.00017	1	03/02/25 06:42	2 03/02/25 16:35	EPA 3005A	3,200.8	TAA
Nickel, Total	0.00226		mg/l	0.00200	0.00055	1	03/02/25 06:42	2 03/02/25 16:35	EPA 3005A	3,200.8	TAA
Total Hardness (by	calculatio	n) - Mansfi	eld Lab								
Hardness	202.6		mg/l	0.5400	NA	1	03/02/25 06:42	2 03/02/25 16:35	EPA 3005A	3,200.8	TAA
General Chemistry -	- Mansfiel	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/02/25 16:35	NA	107,-	
Dissolved Metals - N	Mansfield	Lab									
Chromium, Dissolved	0.0004	J	mg/l	0.0010	0.0002	1	03/03/25 06:2	5 03/03/25 11:00	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0021	-	mg/l	0.0020	0.0006	1		5 03/03/25 11:00		3,200.8	BLR
				0.0020	5.0000	•	00,00,20 00.20			-,	

								-	_		
Project Name:	SPS T	ECHNOLO	OGIES				Lab Nu	mber:	L25113	88	
Project Number:	US004	43268.215	0				Report	Date:	03/03/2		
				SAMPL	E RESI	JLTS					
Lab ID:		388-02					Date Co		03/01/25		
Client ID:		030125					Date Re		03/01/25		
Sample Location:	JENKI	JENKINTOWN, PA					Field Pr	ep:	Not Spec	cified	
Sample Depth:											
Matrix:	Water										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lob										
Total Metals - Maris											
Chromium, Total	0.00046	J	mg/l	0.00100	0.00017	′ 1	03/02/25 06:42	2 03/02/25 16:52	EPA 3005A	3,200.8	TAA
Nickel, Total	0.00335		mg/l	0.00200	0.00055	1	03/02/25 06:42	2 03/02/25 16:52	EPA 3005A	3,200.8	TAA
Total Hardness (by	calculatio	n) - Mansf	ield Lab								
Hardness	231.1		mg/l	0.5400	NA	1	03/02/25 06:42	2 03/02/25 16:52	EPA 3005A	3,200.8	TAA
General Chemistry -	- Mansfiel	ld Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/02/25 16:52	NA	107,-	
Dissolved Metals - M	Mansfield	Lab									
Chromium, Dissolved	0.0002	J	mg/l	0.0010	0.0002	1	03/03/25 06:25	5 03/03/25 11:27	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0031		mg/l	0.0020	0.0006	1	03/03/25 06:25	5 03/03/25 11:27	EPA 3005A	3,200.8	BLR

								-	_		
Project Name:	SPS T	ECHNOLO	OGIES				Lab Nu	mber:	L25113	88	
Project Number:	US004	43268.215	0				Report	Date:	03/03/2		
				SAMPL	E RESI	ULTS					
Lab ID:		388-03					Date Co		03/01/25		
Client ID:		030125					Date Re		03/01/25		
Sample Location:	JENKI	NTOWN, F	PA				Field Pr	ep:	Not Spec	cified	
Sample Depth:											
Matrix:	Water										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lob										
Total Metals - Maris											
Chromium, Total	0.00100		mg/l	0.00100	0.00017	' 1	03/02/25 06:42	2 03/02/25 16:56	EPA 3005A	3,200.8	TAA
Nickel, Total	0.00501		mg/l	0.00200	0.00055	5 1	03/02/25 06:42	2 03/02/25 16:56	EPA 3005A	3,200.8	TAA
Total Hardness (by	calculatio	n) - Mansf	ield Lab								
Hardness	219.7		mg/l	0.5400	NA	1	03/02/25 06:42	2 03/02/25 16:56	EPA 3005A	3,200.8	TAA
General Chemistry -	- Mansfiel	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/02/25 16:56	NA	107,-	
Dissolved Metals - M	Mansfield	Lab									
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/03/25 06:25	5 03/03/25 11:32	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0047		mg/l	0.0020	0.0006	1	03/03/25 06:25	5 03/03/25 11:32	EPA 3005A	3,200.8	BLR

								-			
Project Name:	SPS T	ECHNOLO	OGIES				Lab Nu	mber:	L25113	88	
Project Number:	US004	43268.215	D				Report	Date:	03/03/2		
				SAMPL	E RESI	JLTS					
Lab ID:		388-04					Date Co		03/01/25		
Client ID:		030125					Date Re		03/01/25		
Sample Location:	JENKI	NTOWN, F	PA				Field Pr	ep:	Not Spec	cified	
Sample Depth:											
Matrix:	Water										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Tatal Matala Mana	Calal I ala										
Total Metals - Mans	field Lab										
Chromium, Total	0.00044	J	mg/l	0.00100	0.00017	' 1	03/02/25 06:42	2 03/02/25 17:00	EPA 3005A	3,200.8	TAA
Nickel, Total	0.00079	J	mg/l	0.00200	0.00055	5 1	03/02/25 06:42	2 03/02/25 17:00	EPA 3005A	3,200.8	TAA
Total Hardness (by	calculatio	n) - Mansf	ield Lab								
Hardness	232.4		mg/l	0.5400	NA	1	03/02/25 06:42	2 03/02/25 17:00	EPA 3005A	3,200.8	TAA
General Chemistry -	- Mansfiel	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/02/25 17:00	NA	107,-	
Dissolved Metals - N	Mansfield	Lab									
Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	03/03/25 06:25	5 03/03/25 11:36	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	1	03/03/25 06:25	5 03/03/25 11:36	EPA 3005A	3,200.8	BLR

								-	_		
Project Name:	SPS T	ECHNOLO	OGIES				Lab Nu	imber:	L25113	88	
Project Number:	US004	43268.215	0				Report	Date:	03/03/25		
				SAMPL	E RESU	JLTS					
Lab ID:	-	388-05						ollected:	03/01/25		
Client ID:	_	030125						eceived:	03/01/25		
Sample Location:	JENKI	NTOWN, F	PA				Field P	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Water										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analys
Total Metals - Mans	field Lab										
Chromium, Total	0.00035	J	mg/l	0.00100	0.00017	['] 1	03/02/25 06:4	2 03/02/25 17:05	EPA 3005A	3,200.8	ТАА
Nickel, Total	0.00148	J	mg/l	0.00200	0.00055	1	03/02/25 06:4	2 03/02/25 17:05	EPA 3005A	3,200.8	TAA
Total Hardness (by	acloulatio	n) Monof	iold Lob								
		n) - Mansi			N1.4		00/00/05 00 4	0.00/00/05 47.05		2 200 9	T 0 0
Hardness	282.1		mg/l	0.5400	NA	1	03/02/25 06:4	2 03/02/25 17:05	EPA 3005A	3,200.8	TAA
General Chemistry -	- Mansfiel	ld Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/02/25 17:05	NA	107,-	
Dissolved Metals - N	Mansfield	Lab									
Chromium, Dissolved	0.0002	J	mg/l	0.0010	0.0002	1	03/03/25 06:2	5 03/03/25 11:41	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0014	J	mg/l	0.0020	0.0006	1	03/03/25 06:2	5 03/03/25 11:41	EPA 3005A	3,200.8	BLR

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2511388

 Report Date:
 03/03/25

Method Blank Analysis Batch Quality Control

Parameter	Result Qualit	ier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	l Analyst
Total Metals - Mans	field Lab for sample	e(s): 01-05 E	Batch: WO	G203564	43-1				
Chromium, Total	ND	mg/l	0.00100	0.00017	[′] 1	03/02/25 06:42	03/02/25 16:26	6 3,200.8	TAA
Nickel, Total	ND	mg/l	0.00200	0.00055	1	03/02/25 06:42	03/02/25 16:26	3,200.8	TAA

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness (by ca	alculation) - Mansfield	Lab for sa	ample(s):	01-05	Batch: WC	G2035643-1			
Hardness	ND	mg/l	0.5400	NA	1	03/02/25 06:42	03/02/25 16:26	3,200.8	TAA

Prep Information

Digestion Method: EPA 3005A

Parameter	Result (Qualifier U	nits	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Ma	ansfield Lab	for sample(s)	: 01-05	Batch:	WG20)35844-1				
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/03/25 06:25	03/03/25 10:37	3,200.8	BLR
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	1	03/03/25 06:25	03/03/25 10:37	3,200.8	BLR

Prep Information

Digestion Method: EPA 3005A

Pace

Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

 Lab Number:
 L2511388

 Report Date:
 03/03/25

Project Number: US0043268.2150

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits			
Total Metals - Mansfield Lab Associated sam	ple(s): 01-05	Batch: W	G2035643-2								
Chromium, Total	110		-		85-115	-					
Nickel, Total	104		-		85-115	-					
Total Hardness (by calculation) - Mansfield La	ab Associated	sample(s)	: 01-05 Batch: '	WG2035643-2	2						
Hardness	106		-		85-115	-					
Dissolved Metals - Mansfield Lab Associated	Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2035844-2										
Chromium, Dissolved	106		-		85-115	-					
Nickel, Dissolved	113		-		85-115	-					

Pace

Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

 Lab Number:
 L2511388

 Report Date:
 03/03/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery Q	Recovery ual Limits	RPD Qua	RPD I <mark>I Limit</mark> s
Total Metals - Mansfield Lab	Associated sam	ole(s): 01-0	5 QC Bat	ch ID: WG203	5643-3	QC Sam	ple: L2511388-01	Client ID: SV	V5_030125	
Chromium, Total	0.00026J	0.2	0.2251	112		-	-	70-130	-	20
Nickel, Total	0.00226	0.5	0.5082	101		-	-	70-130	-	20
Latal Lardwaga (by agle latin										
Total Hardness (by calculatio SW5_030125 Hardness	n) - Mansfield La 202.6	66.2	ed sample(267.8	s): 01-05 QC ⁹⁸	Batch I	D: WG203	35643-3 QC Sai -	mple: L2511388 70-130	-01 Client	ID: 20
SW5_030125	202.6	66.2	267.8	,		-	35643-3 QC Sa - Sample: L251138	70-130		20
SW5_030125 Hardness	202.6	66.2	267.8	98		-	-	70-130	-	20



Lab Duplicate Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2511388 Report Date: 03/03/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-0	5 QC Batch ID: WG	2035643-4 QC Sample:	L2511388-01	Client ID:	SW5_030125
Chromium, Total	0.00026J	0.00024J	mg/l	NC	20
Nickel, Total	0.00226	0.00219	mg/l	3	20
Total Hardness (by calculation) - Mansfield Lab Associate SW5_030125	ed sample(s): 01-05	QC Batch ID: WG203564	3-4 QC Sam	ple: L251	1388-01 Client ID:
Hardness	202.6	191.0	mg/l	6	20
Dissolved Metals - Mansfield Lab Associated sample(s):	01-05 QC Batch ID:	WG2035844-4 QC San	nple: L251138	8-01 Clien	nt ID: SW5_030125
Chromium, Dissolved	0.0004J	ND	mg/l	NC	20
Nickel, Dissolved	0.0021	0.0022	mg/l	4	20



INORGANICS & MISCELLANEOUS



Lab Number: SPS TECHNOLOGIES L2511388 Project Number: US0043268.2150 **Report Date:** 03/03/25

SAMPLE RESULTS

Lab ID: Client ID: Sample Location:	L2511388-01 SW5_030125 JENKINTOWN, PA		Date Colle Date Rece Field Prep	eived:	03/01/25 09:50 03/01/25 Not Specified	
Sample Depth: Matrix:	Water	Dilution	Date	Date	Analytical	

Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Analyst
General Chemistry - Wes	stborough Lat)								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/02/25 08:50	03/02/25 17:42	121,4500CN-CE	SRM
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/02/25 03:27	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/02/25 10:37	03/02/25 13:54	140,1664B	IYM
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/02/25 04:05	03/02/25 04:22	121,3500CR-B	KAF



Project Name:

Serial	No:03032514:25

Parameter	Result Qualifier Units	RL MDL	Dilution Factor	Date Date Prepared Analyzed	Analytical d Method Analyst
Sample Depth: Matrix:	Water		Dilution	Dete Det	
Sample Location:	JENKINTOWN, PA			Field Prep:	Not Specified
Client ID:	SW4_030125			Date Received:	03/01/25
Lab ID:	L2511388-02			Date Collected:	03/01/25 10:50

General Chemistry - Westborough Lab											
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	03/02/25 08:50	03/02/25 17:45	121,4500CN-CE	SRM	
Cyanide, Free	0.004	J	mg/l	0.010	0.003	1	-	03/02/25 03:27	121,4500CN-	KAF	
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/02/25 10:37	03/02/25 13:55	E (M) 140,1664B	IYM	
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/02/25 04:05	03/02/25 04:24	121,3500CR-B	KAF	



Serial No:03032514:25

Para	meter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
	Sample Depth: //atrix:	Water									
ŝ	Sample Location:	JENKINTOV	VN, PA					Field P	rep:	Not Specified	
(Client ID:	SW3_03012	5					Date R	eceived:	03/01/25	
L	.ab ID:	L2511388-0	3					Date C	ollected:	03/01/25 11:45	

General Chemistry - We	stborough La	ab								
Cyanide, Total	0.008		mg/l	0.005	0.001	1	03/02/25 08:50	03/02/25 17:46	121,4500CN-CE	SRM
Cyanide, Free	0.007	J	mg/l	0.010	0.003	1	-	03/02/25 03:27	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/02/25 10:37	03/02/25 14:12	140,1664B	IYM
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/02/25 04:05	03/02/25 04:24	121,3500CR-B	KAF



Serial	No:03032514:25

Lab ID:	L2511388-04	Date Collected:	03/01/25 12:30
Client ID:	SW2_030125	Date Received:	03/01/25
Sample Location:	JENKINTOWN, PA	Field Prep:	Not Specified
Sample Depth: Matrix:	Water		

						Dilution	Date	Data	Amplutical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough Lal)								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/02/25 08:50	03/02/25 17:47	121,4500CN-CE	SRM
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/02/25 03:27	121,4500CN-	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/02/25 10:37	03/02/25 14:13	E(M) 140,1664B	IYM
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/02/25 04:05	03/02/25 04:25	121,3500CR-B	KAF



Serial	No:03032514:25

Lab ID:	L2511388-05		Date Colle	ected:	03/01/25 13:15	
Client ID:	SW1_030125		Date Rece	eived:	03/01/25	
Sample Location:	JENKINTOWN, PA		Field Prep	:	Not Specified	
Sample Depth:	Materia					
Matrix:	Water	D	5.4			
		Dilution	Date	Date	Analytical	

Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Analyst
General Chemistry - Wes	stborough La	b								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/02/25 08:50	03/02/25 17:48	121,4500CN-CE	SRM
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/02/25 03:27	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/02/25 12:57	03/02/25 14:22	140,1664B	IYM
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/02/25 04:05	03/02/25 04:27	121,3500CR-B	KAF



Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2511388

 Report Date:
 03/03/25

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	estborough Lab for san	nple(s): 01	I-05 Bat	tch: WG	G2035622-	1			
Cyanide, Free	ND	mg/l	0.010	0.003	1	-	03/02/25 03:27	121,4500CN-E(M) KAF
General Chemistry - We	estborough Lab for san	nple(s): 01	I-05 Bat	tch: WC	G2035623-	1			
Chromium, Hexavalent	ND	mg/l	0.010	0.003	1	03/02/25 04:05	03/02/25 04:17	121,3500CR-B	KAF
General Chemistry - We	estborough Lab for san	nple(s): 01	I-05 Bat	tch: WG	G2035658-	1			
Cyanide, Total	ND	mg/l	0.005	0.001	1	03/02/25 08:50	03/02/25 17:36	121,4500CN-CE	SRM
General Chemistry - We	estborough Lab for san	nple(s): 01	I-05 Bat	tch: WC	G2035695-	1			
Oil & Grease, Hem-Grav	ND	mg/l	4.0	4.0	1	03/02/25 10:37	03/02/25 13:24	140,1664B	IYM

Lab Control Sample Analysis Batch Quality Control

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2511388

 Report Date:
 03/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Asso	ciated sample(s):	01-05	Batch: WG2035	622-2				
Cyanide, Free	92		-		90-110	-		
General Chemistry - Westborough Lab Asso	ociated sample(s):	01-05	Batch: WG2035	623-2				
Chromium, Hexavalent	100		-		85-115	-		20
General Chemistry - Westborough Lab Asso	ociated sample(s):	01-05	Batch: WG2035	658-2				
Cyanide, Total	90		-		90-110	-		
General Chemistry - Westborough Lab Asso	ociated sample(s):	01-05	Batch: WG2035	695-2				
Oil & Grease, Hem-Grav	84		-		78-114	-		18

Pace

Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150 Lab Number: L2511388 **Report Date:** 03/03/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery	Recover Qual Limits		RPD Qual Limits
General Chemistry - Westbo	orough Lab Asso	ciated samp	ole(s): 01-05	QC Batch II	D: WG2035622-4	QC Sample:	L2511387-01 (Client ID:	MS Sample
Cyanide, Free	ND	0.25	0.217	87	-	-	80-120	-	20
General Chemistry - Westbo	orough Lab Asso	ciated samp	ole(s): 01-05	QC Batch II	D: WG2035623-4	QC Sample:	L2511387-01 (Client ID:	MS Sample
Chromium, Hexavalent	ND	0.1	0.090	90	-	-	85-115	-	20
General Chemistry - Westbo	orough Lab Asso	ciated samp	ole(s): 01-05	QC Batch II	D: WG2035658-3	QC Sample:	L2511387-01 (Client ID:	MS Sample
Cyanide, Total	ND	0.2	0.192	96	-	-	90-110	-	30
General Chemistry - Westbo	orough Lab Asso	ciated samp	ole(s): 01-05	QC Batch II	D: WG2035695-4	QC Sample:	L2511388-02 (Client ID:	SW4_030125
Oil & Grease, Hem-Grav	ND	40.8	37	91	-	-	78-114	-	18

Pace

Lab Duplicate Analysis Batch Quality Control

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

Lab Number: Report Date:

 mber:
 L2511388

 Date:
 03/03/25

Parameter	eter Native Sample Duplicate Sample			Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab A	Associated sample(s): 01-05	QC Batch ID:	WG2035622-3	QC Sample:	L2511387-01	Client ID:	DUP Sample
Cyanide, Free	ND		ND	mg/l	NC		20
General Chemistry - Westborough Lab A	Associated sample(s): 01-05	QC Batch ID:	WG2035623-3	QC Sample:	L2511387-01	Client ID:	DUP Sample
Chromium, Hexavalent	ND		ND	mg/l	NC		20
General Chemistry - Westborough Lab A	Associated sample(s): 01-05	QC Batch ID:	WG2035658-4	QC Sample:	L2511387-01	Client ID:	DUP Sample
Cyanide, Total	ND		ND	mg/l	NC		30
General Chemistry - Westborough Lab A	Associated sample(s): 01-05	QC Batch ID:	WG2035695-3	QC Sample:	L2511388-01	Client ID:	SW5_030125
Oil & Grease, Hem-Grav	ND		ND	mg/l	NC		18



Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150

Serial_No:03032514:25 Lab Number: L2511388 Report Date: 03/03/25

Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

Cooler Information

Cooler	Custody Seal
A	Present/Intact
В	Present/Intact
С	Present/Intact

Container Information

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2511388-01A	Vial Na2S2O3 preserved	В	NA		2.1	Y	Present/Intact		624.1-PPM(7)
L2511388-01B	Vial Na2S2O3 preserved	В	NA		2.1	Y	Present/Intact		624.1-PPM(7)
L2511388-01C	Vial Na2S2O3 preserved	В	NA		2.1	Y	Present/Intact		624.1-PPM(7)
L2511388-01D	Plastic 250ml HNO3 preserved	В	<2	<2	2.1	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2511388-01E	Plastic 250ml unpreserved	В	6	6	2.1	Y	Present/Intact		-
L2511388-01F	Plastic 250ml NaOH preserved	В	>12	>12	2.1	Y	Present/Intact		TCN-4500(14)
L2511388-01G	Plastic 500ml unpreserved	В	6	6	2.1	Y	Present/Intact		HEXCR-3500(1),FCN(1)
L2511388-01H	Amber 1L HCI preserved	В	NA		2.1	Y	Present/Intact		OG-1664(28)
L2511388-01J	Amber 1L HCI preserved	В	NA		2.1	Y	Present/Intact		OG-1664(28)
L2511388-01W	Plastic 120ml HNO3 preserved Filtrates	В	NA		2.1	Y	Present/Intact		CR-2008S(180),NI-2008S(180)
L2511388-02A	Vial Na2S2O3 preserved	В	NA		2.1	Y	Present/Intact		624.1-PPM(7)
L2511388-02B	Vial Na2S2O3 preserved	В	NA		2.1	Y	Present/Intact		624.1-PPM(7)
L2511388-02C	Vial Na2S2O3 preserved	В	NA		2.1	Y	Present/Intact		624.1-PPM(7)
L2511388-02D	Plastic 250ml HNO3 preserved	В	<2	<2	2.1	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2511388-02E	Plastic 250ml unpreserved	В	6	6	2.1	Y	Present/Intact		-
L2511388-02F	Plastic 250ml NaOH preserved	В	>12	>12	2.1	Y	Present/Intact		TCN-4500(14)
L2511388-02G	Plastic 500ml unpreserved	В	6	6	2.1	Y	Present/Intact		HEXCR-3500(1),FCN(1)
L2511388-02H	Amber 1L HCI preserved	В	NA		2.1	Y	Present/Intact		OG-1664(28)
L2511388-02J	Amber 1L HCI preserved	В	NA		2.1	Y	Present/Intact		OG-1664(28)
L2511388-02W	Plastic 120ml HNO3 preserved Filtrates	В	NA		2.1	Y	Present/Intact		CR-2008S(180),NI-2008S(180)



Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

Container Information			Initial	Final	Temp			Frozen			
Container ID	Container Type	Cooler	рН	pН		Pres	Seal	Date/Time	Analysis(*)		
L2511388-03A	Vial Na2S2O3 preserved	в	NA		2.1	Y	Present/Intact		624.1-PPM(7)		
L2511388-03B	Vial Na2S2O3 preserved	В	NA		2.1	Y	Present/Intact		624.1-PPM(7)		
L2511388-03C	Vial Na2S2O3 preserved	В	NA		2.1	Y	Present/Intact		624.1-PPM(7)		
L2511388-03D	Plastic 250ml HNO3 preserved	С	<2	<2	2.5	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)		
L2511388-03E	Plastic 250ml unpreserved	С	6	6	2.5	Υ	Present/Intact		-		
L2511388-03F	Plastic 250ml NaOH preserved	С	>12	>12	2.5	Υ	Present/Intact		TCN-4500(14)		
L2511388-03G	Plastic 500ml unpreserved	С	6	6	2.5	Υ	Present/Intact		HEXCR-3500(1),FCN(1)		
L2511388-03H	Amber 1L HCI preserved	С	NA		2.5	Υ	Present/Intact		OG-1664(28)		
L2511388-03J	Amber 1L HCI preserved	С	NA		2.5	Y	Present/Intact		OG-1664(28)		
L2511388-03W	Plastic 120ml HNO3 preserved Filtrates	С	NA		2.5	Υ	Present/Intact		CR-2008S(180),NI-2008S(180)		
L2511388-04A	Vial Na2S2O3 preserved	В	NA		2.1	Υ	Present/Intact		624.1-PPM(7)		
L2511388-04B	Vial Na2S2O3 preserved	В	NA		2.1	Υ	Present/Intact		624.1-PPM(7)		
L2511388-04C	Vial Na2S2O3 preserved	В	NA		2.1	Υ	Present/Intact		624.1-PPM(7)		
L2511388-04D	Plastic 250ml HNO3 preserved	С	<2	<2	2.5	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)		
L2511388-04E	Plastic 250ml unpreserved	С	7	7	2.5	Y	Present/Intact		-		
L2511388-04F	Plastic 250ml NaOH preserved	С	>12	>12	2.5	Y	Present/Intact		TCN-4500(14)		
L2511388-04G	Plastic 500ml unpreserved	С	7	7	2.5	Υ	Present/Intact		HEXCR-3500(1),FCN(1)		
L2511388-04H	Amber 1L HCI preserved	С	NA		2.5	Υ	Present/Intact		OG-1664(28)		
L2511388-04J	Amber 1L HCI preserved	С	NA		2.5	Υ	Present/Intact		OG-1664(28)		
L2511388-04W	Plastic 120ml HNO3 preserved Filtrates	С	NA		2.5	Υ	Present/Intact		CR-2008S(180),NI-2008S(180)		
L2511388-05A	Vial Na2S2O3 preserved	В	NA		2.1	Υ	Present/Intact		624.1-PPM(7)		
L2511388-05B	Vial Na2S2O3 preserved	В	NA		2.1	Υ	Present/Intact		624.1-PPM(7)		
L2511388-05C	Vial Na2S2O3 preserved	В	NA		2.1	Υ	Present/Intact		624.1-PPM(7)		
L2511388-05D	Plastic 250ml HNO3 preserved	С	<2	<2	2.5	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)		
L2511388-05E	Plastic 250ml unpreserved	С	6	6	2.5	Y	Present/Intact		-		
L2511388-05F	Plastic 250ml NaOH preserved	С	>12	>12	2.5	Y	Present/Intact		TCN-4500(14)		
L2511388-05G	Plastic 500ml unpreserved	С	6	6	2.5	Y	Present/Intact		HEXCR-3500(1),FCN(1)		



Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

Serial_No:03032514:25 *Lab Number:* L2511388 *Report Date:* 03/03/25

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2511388-05H	Amber 1L HCI preserved	С	NA		2.5	Y	Present/Intact		OG-1664(28)
L2511388-05J	Amber 1L HCI preserved	С	NA		2.5	Υ	Present/Intact		OG-1664(28)
L2511388-05W	Plastic 120ml HNO3 preserved Filtrates	С	NA		2.5	Υ	Present/Intact		CR-2008S(180),NI-2008S(180)
L2511388-06A	Vial Na2S2O3 preserved	В	NA		2.1	Υ	Present/Intact		624.1-PPM(7)
L2511388-06B	Vial Na2S2O3 preserved	В	NA		2.1	Υ	Present/Intact		624.1-PPM(7)
L2511388-06C	Vial Na2S2O3 preserved	В	NA		2.1	Y	Present/Intact		624.1-PPM(7)

Pace

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2511388

Report Date: 03/03/25

GLOSSARY

Acronyms

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 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.
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.
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



Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2511388 Report Date: 03/03/25

Footnotes

- 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 Waterpreserved 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(a)+(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, 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.
- B 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 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. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of 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).
- C -Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** 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



¹

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2511388

Report Date: 03/03/25

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.
- V 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.)



 Lab Number:
 L2511388

 Report Date:
 03/03/25

REFERENCES

- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 107 Calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 128 Method 624.1: Purgeables by GC/MS, EPA 821-R-16-008, December 2016.
- 140 Method 1664, Revision B: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-10-001, February 2010.

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.



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: <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270E: <u>NPW:</u> Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine. SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: 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 I, 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: AI, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: AI, 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

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, ANÅB/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

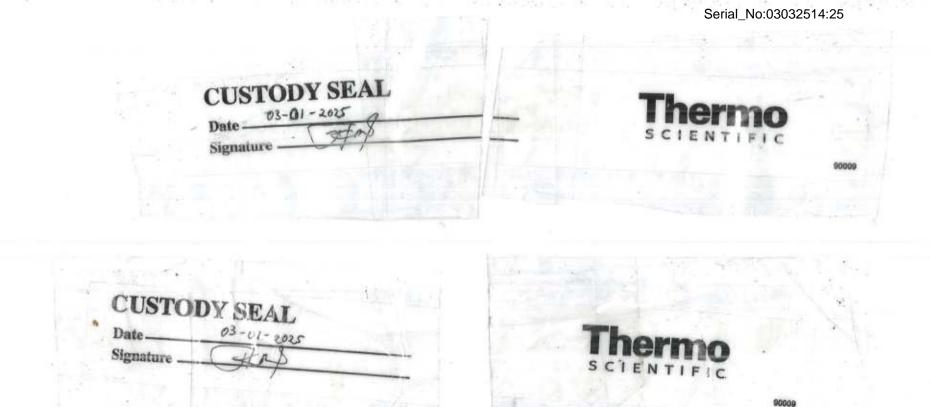
Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

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.

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ALPHA ANALYTICAL

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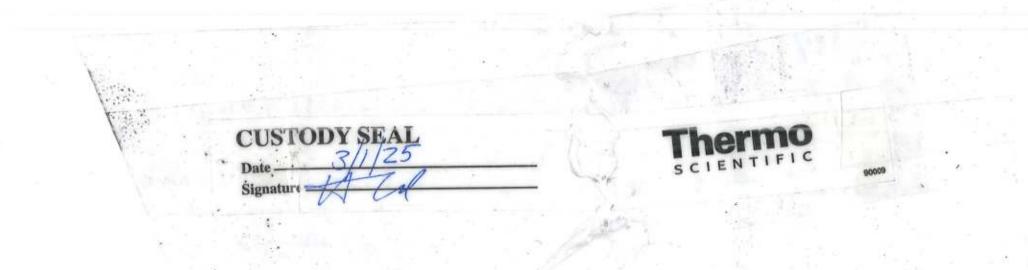
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Apply this label over or close to original seal

CUSTODY SEAL

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ALPHA ANALYTICAL

Custody Seal received intact from Client. Seal broken by Alpha Representative to add ice

Apply this label over or close to original seal