

SPS TECHNOLOGIES - ABINGTON PA DAILY SURFACE WATER AND OUTFALL SAMPLING RESULTS REPORT FOR MARCH 25, 2025

PREPARED FOR:

SPS TECHNOLOGIES

PREPARED BY:

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1.0 EXECUTIVE SUMMARY

TRC Environmental Corporation, on behalf of SPS Technologies Abington PA (SPS), collected five surface water samples accordance with WSP USA Inc. Surface Water and Outfall Sampling Plan revised on March 5, 2025 (Sampling Plan). The samples were collected on March 25, 2025 and 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. Please note, outfalls were not sampled during this sampling event because there was no precipitation.

Surface Water		Upstream Offsite SW Sample Location 1	Upstream Offsite SW Sample Location 2	SW Sample Location 3	SW Sample Location 3 (Duplicate)	High School Road Sample Location 4	Downstream SW Sample Location 5
Parameter	Units	Result	Result	Result	Result	Result	Result
Volatile Organic	Compour	nds					
Toluene	mg/L	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	mg/L	ND	ND	ND	ND	ND	ND
General Chemistry							
Chromium, Trivalent	mg/L	ND	ND	ND	ND	ND	ND
Chromium, Hexavalent	mg/L	ND	ND	ND	ND	ND	ND
Total Cyanide	mg/L	ND	ND	ND	ND	ND	ND
Free Cyanide	mg/L	ND	ND	ND	ND	ND	ND
Oil & Grease	mg/L	ND	ND	ND	ND	ND	ND
Total Metals							
Total Chromium	mg/L	0.00066 J	0.00044 J	0.00037 J	0.00038 J	0.00072 J	0.00087 J
Total Nickel	mg/L	0.00252	0.00104 J	0.00155 J	0.00152 J	0.00159 J	0.00147 J
Dissolved Metals							
Dissolved Chromium	mg/L	0.0003 J	0.0003 J	0.0003 J	0.0002 J	0.0005 J	0.0016
Dissolved Nickel	mg/L	0.0015 J	ND	0.0007 J	0.0006 J	0.0008 J	0.0006 J
Total Hardness							
Hardness mg/L		230.5	212.6	215.9	222.6	152.7	126.3
Field Parameters							
pН	SU	8.10	7.90	8.14	8.14	7.11	6.60

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



2.0 INTRODUCTION

This Daily Surface Water and Outfall Sampling Results Report for March 25, 2025 (Sampling Report) was prepared by TRC Environmental Corporation, Inc., (TRC) on behalf of SPS Technologies Abington PA (SPS). The SPS facility is located at 301 Highland Avenue, Jenkintown, PA 19046 (Site). This Sampling Report was prepared to provide the off-Site surface water sampling results from March 25, 2025, which were collected in accordance with WSP USA Inc. Surface Water and Outfall Sampling Plan revised on March 5, 2025.

2.1 Background

The Site is currently owned by SPS Technologies. On February 17, 2025, a fire broke out at the facility causing major damage and a cessation of operation. Prior to the fire, facility operations consisted of manufacturing of bolts, nuts, screws, rivets, washers, furniture, and fixtures.



3.0 OFF-SITE SURFACE WATER INVESTIGATION

TRC collected five surface water samples at the approved upstream and downstream sampling locations along the Tookany and Tacony Creeks on March 25, 2025. The locations are located northeast and west from the facility, and downstream from the conjoined stream south from the facility. Outfalls were not sampled during this event because there was no precipitation.

3.1 Surface Water Sampling Methodology

TRC collected the surface water samples in accordance with the Sampling Plan. Field data collected from each surface water during the sampling include:

- Water depth
- Weather conditions
- Physical characteristics (clarity, appearance, odor)
- Water Quality (DO, pH, OPR, turbidity, conductivity, and temperature)
- Water velocity (visibly moving)
- Additional observations (e.g. wildlife sightings)

The field data is documented in the daily field sampling form included as **Appendix A**, except for the infield pH measurement, which is summarized in **Table 1**.

3.2 Surface Water Sampling

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-of-custody protocols.

3.3 Surface Water Sampling Results

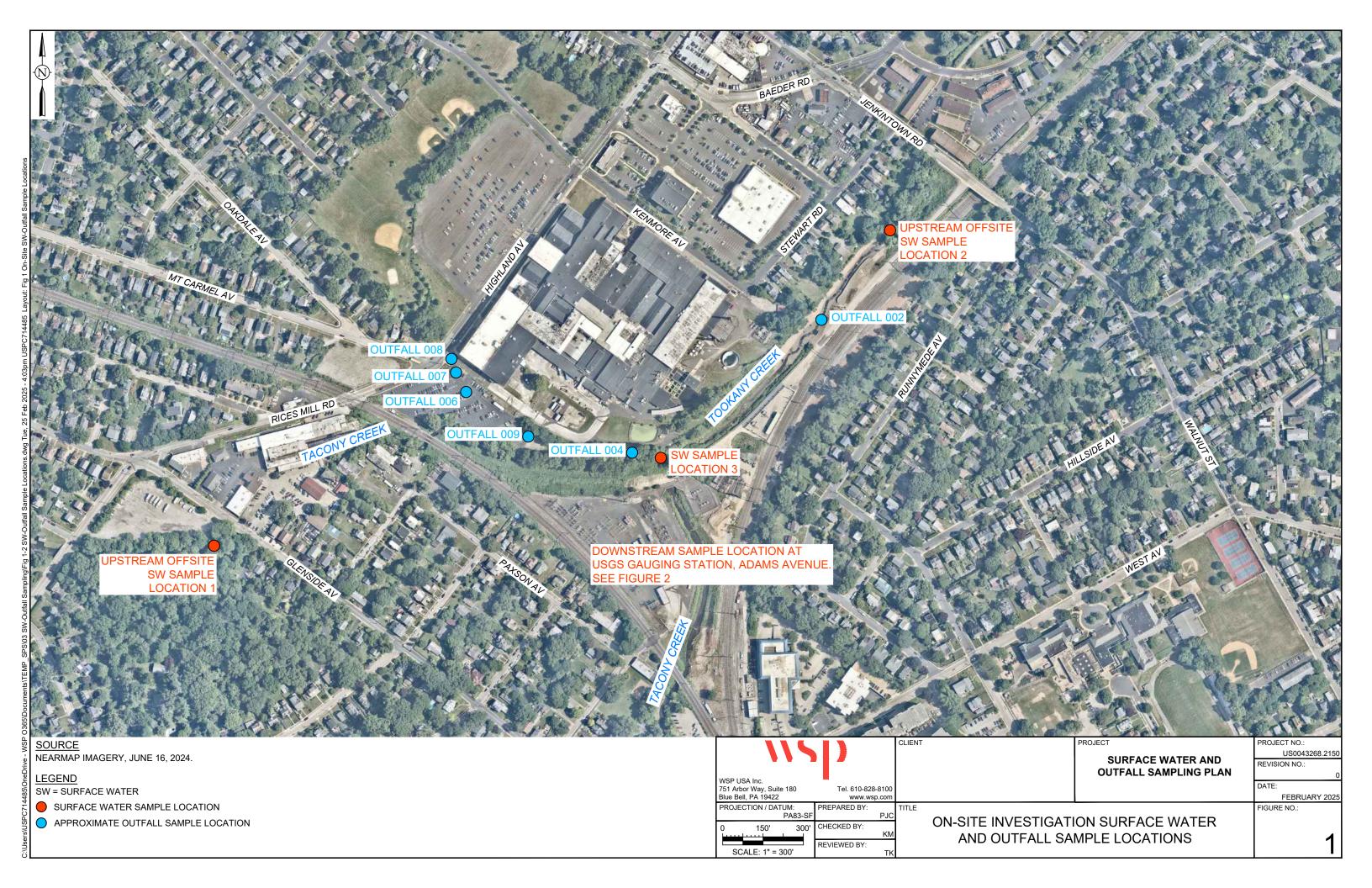
Surface water samples were collected from the five approved locations in accordance with Sampling Plan for the following parameters:

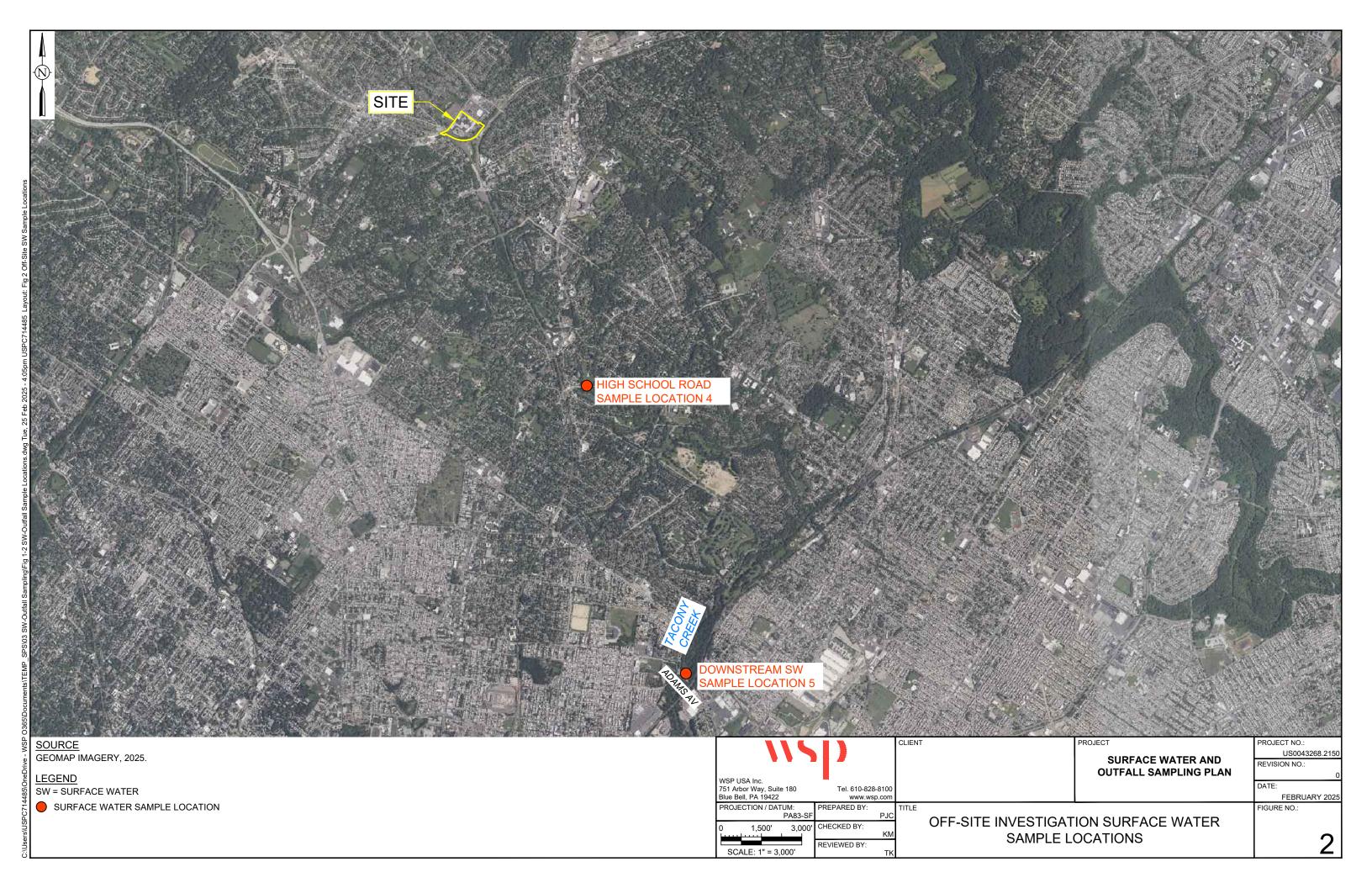
- Oil & Grease
- Free Cyanide
- Total Cyanide
- Total Nickel
- Dissolved Nickel
- Total Chromium
- Dissolved Chromium
- Hexavalent Chromium (calculated for Trivalent Chromium)
- Methyl ethyl ketone (2-Butanone)
- Toluene
- Total Hardness



The validated analytical results are summarized in **Table 1**. The sampling locations are shown on **Figures 1** and **2**. **SPS Technologies** 4







Surface Water Analytical Results Daily Surface Water Sampling Results Report SPS Technologies Jenkintown, Pennsylvania

Sample Location		Upstream Of	fsite S		Upstream Of				Sample		_	N Samp	-	High Schoo		Sample	Downstrea	m SW S	
•	ļ			-		Location 2		Location 3		Location 3 (Duplicate)		Location 4 SW4-032525			SW5-032525				
	ample ID		-03252			-03252	-		3-03252			JP-0325	-						-
	ample ID		7598-0			7598-0	1		17598-0	3		517598-			7598-04	1		7598-0	<u> </u>
Sampi	ling Date		5/2025			5/2025			25/2025		3	3/25/202	5		5/2025			5/2025	
Γ= .	Matrix	<u>-</u>	Vater			Vater			Nater			Water			/ater		-	Vater	
Parameter	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Volatile Organic Compounds			,																
Toluene	mg/L	ND		0.0010	ND		0.0010	ND		0.0010	ND		0.0010	ND		0.0010	ND	\bot	0.0010
2-Butanone (MEK)	mg/L	ND		0.010	ND		0.010	ND		0.010	ND		0.010	ND		0.010	ND		0.010
General Chemistry																			
Chromium, Trivalent	mg/L	ND		0.010	ND		0.010	ND		0.010	ND		0.010	ND		0.010	ND		0.010
Chromium, Hexavalent	mg/L	ND		0.010	ND		0.010	ND		0.010	ND		0.010	ND		0.010	ND		0.010
Total Cyanide	mg/L	ND		0.005	ND		0.005	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Free Cyanide	mg/L	ND		0.010	ND		0.010	ND		0.010	ND		0.010	ND		0.010	ND		0.010
Oil & Grease	mg/L	ND		4.0	ND		4.0	ND		4.0	ND		4.0	ND		4.0	ND		4.0
Total Metals																			
Total Chromium	mg/L	0.00066	J	0.00100	0.00044	J	0.00100	0.00037	J	0.00100	0.00038	J	0.00100	0.00072	J	0.00100	0.00087	J	0.00100
Total Nickel	mg/L	0.00252		0.00200	0.00104	J	0.00200	0.00155	J	0.00200	0.00152	J	0.00200	0.00159	J	0.00200	0.00147	J	0.00200
Dissolved Metals																			
Dissolved Chromium	mg/L	0.0003	J	0.0010	0.0003	J	0.0010	0.0003	J	0.0010	0.0002	J	0.0010	0.0005	J	0.0010	0.0016		0.0010
Dissolved Nickel	mg/L	0.0015	J	0.0020	ND		0.0020	0.0007	J	0.0020	0.0006	J	0.0020	0.0008	J	0.0020	0.0006	J	0.0020
Total Hardness																•			
Hardness	mg/L	230.5		0.5400	212.6		0.5400	215.9		0.5400	222.6		0.5400	152.7		0.5400	126.3		0.5400
Field Parameters			•	•		•				•	•				•				
pH ¹	SU	8.10			7.90			8.14			8.14			7.11			6.60	T	1
Notes:									•										

Abbreviations: mg/L: milligrams per liter

ND: Non-Detect

Q: Qualifier

RL: Reporting Limit

SU: Standard Units

Qualifiers: J: Estimated Result

Project Number: 658978

Notes:

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

Date 03/25/25

Project Number 658978

SURFACE WATER SAMPLE FIELD INFORMATION FORM

Site Location Project Inumber Water Quality Meter Water Calibrated (II Flois Meter Sampling Date/Time Sampling Device Sampler Characteristics	LICENSIA GUERT CHANGE CHANGE CHANGE CHANGE COMMENT CHANGE	SWS- COILECT MS/MSD SWS- TUrtic Observed in water with SINT- JISH, acce observed SWS- Collect Buolicate Sample TD- BUP- 34515 Lesco	Pish
Analytical Palameters			
Weather Conditions	4D'S, SUNNY		

STATION DESCRIPTION SAMPLE SAMPLE/STATION VELOCITY DEPTH WATER TEMP SAUMITY TURBIDITY (stream, lake (legs) DAIL TOTAL DEPTH 76/1006 HHVDD/YY te bes 6.5 6.66 0.657 Sample Characteristics 0.733 310 10.06 26.5 11.76 1.040 SW4-032525 0.47 3.25 11.84 7.900.833 WI-032525 3.10 9.97 05 1.09 9070 SW2-032525 0.915 Sample Characteristics Sheem Sample Characteristics Staff Gauge Reading



Data Validation Report

Site: SPS Technologies, Surface Water Sampling Laboratory: Pace Analytical, Westborough and Mansfield, MA

SDG No.: L2517598

Parameters: Select Volatile Organic Compounds (VOCs), Select Metals, Hardness, Total

Cyanide, Free Cyanide, Oil & Grease, Hexavalent Chromium, Trivalent

Chromium

Data Reviewer: Jessica Esser/TRC
Peer Reviewer: Kristen Morin/TRC
Date: March 26, 2025

Samples Reviewed and Evaluation Summary

6 Surface Water Samples: SW1-032525, SW2-032525, SW3-032525, SW4-032525,

SW5-032525, DUP-0325251

1 Trip Blank: TRIP BLANK-032525

The above-listed samples were collected on March 25, 2025 and were analyzed for one or more of the following parameters.

- Select VOCs (toluene, 2-butanone) using EPA Method 624.1
- Select total and dissolved metals (chromium, nickel) using EPA Method 200.8
- Total hardness (by calculation) using EPA Method 200.8
- Total cyanide using Standard Methods (SM) 4500 CN-CE
- Free cyanide using SM 4500 CN-E (M)
- Oil and grease using EPA Method 1664B
- Hexavalent chromium using SM 3500 CR-B
- Trivalent chromium by calculation

Limited data validation was performed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review (EPA-540-R-20-005), November 2020 and USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA-542-R-20-006), November 2020, modified for the methodologies utilized.

The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
- * Blanks
- Surrogate Recoveries (VOCs only)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Duplicate Results
- Laboratory Control Sample (LCS) Results
- Field Duplicate Results
 - Sample Results and Reported Quantitation Limits (QLs)
- * All criteria were met.

¹Field duplicate of SW3-032525



Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives. Qualification of the data as a result of sampling error was not required. Qualifications applied to the data as a result of analytical error are discussed below.

• Potential uncertainty exists for select metals results that were below the lowest calibration standard and QL. These results were qualified as estimated (J) by the laboratory in the associated samples. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

Data Completeness

The data package was a complete Level 2 data package. It should be noted that the date of collection for the trip blank was listed as 3/23/25 on the chain-of-custody (COC). For purposes of this assessment, it was assumed the date of collection was the same as the associated samples.

Holding Times and Sample Preservation

All holding time and preservation criteria were met for all parameters.

Blanks

Target analytes were not detected in the associated laboratory method blanks. Target VOCs were not detected in the trip blank. A field blank was not submitted with the data set.

Surrogate Recoveries (VOCs only)

All criteria were met.

MS/MSD Results

MS/MSD analyses were performed on sample SW5-032525 for VOCs, total and dissolved metals, hardness, total cyanide, free cyanide, oil and grease, and hexavalent chromium. All criteria were met.

Laboratory Duplicate Results

Laboratory duplicate analyses were performed on sample SW5-032525 for oil & grease, total cyanide and free cyanide, and on sample SW1-032525 for hexavalent chromium. All criteria were met.

LCS Results

All criteria were met for all parameters.

Field Duplicate Results

Samples SW3-032525 and DUP-032525 were submitted as the field duplicate pair with this sample set. The following table summarizes the relative percent differences (RPDs) and/or absolute differences (AbsDs), where applicable, of the detected analytes after validation. All criteria were met.



Analyte	QLs (mg/L)	SW3-032525 (mg/L)	DUP-032525 (mg/L)	RPD (%) or AbsD (mg/L)	Validation Action
Total Chromium	0.001	0.00037 J	0.00038 J	AbsD = 0.00001	
Total Nickel	0.002	0.00155 J	0.00152 J	AbsD = 0.00003	
Hardness	0.54	215.9	222.6	RPD = 3.1	None; all criteria were met.
Dissolved Chromium	0.001	0.0003 J	0.0002 J	AbsD = 0.0001	
Dissolved Nickel	0.002	0.0007 J	0.0006 J	AbsD = 0.0001	

Field duplicate criteria are as follows:

- RPD ≤ 30 when positive results for both samples are ≥ 5x QL
- AbsD ≤ QL when one or both results are < 5x QL

Sample Results and Reported Quantitation Limits

Select metals results were reported that were below the lowest calibration standard level and QL. These results were qualified as estimated (J) in the associated samples by the laboratory.

There were no dilutions performed on the samples in this data set.

The total and dissolved metal results were evaluated during data validation to identify any dissolved concentrations that were significantly higher than the associated total concentration. The evaluation was based on the following criteria to determine significance: percent difference (%D) should be \leq 20% when dissolved results are greater than total results and both results are \geq 5x the QL. If the dissolved result was > the total and one or both results were \leq 5x the QL, then the AbsD should be \leq 2x the QL. These criteria were met for all samples.

QUALIFIED FORM 1s

VOLATILES



L2517598

03/25/25 11:45

Project Name: SPS TECHNOLOGIES

Project Number: 658978

SAMPLE RESULTS

Report Date: 03/26/25

Lab Number:

Date Collected:

Lab ID: L2517598-01

Client ID: SW1-032525 Sample Location: JENKINTOWN, PA Date Received: 03/25/25 Field Prep: Refer to COC

Sample Depth:

Matrix: Water Analytical Method: 128,624.1 Analytical Date: 03/26/25 11:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - W	estborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	82		60-140
Fluorobenzene	73		60-140
4-Bromofluorobenzene	123		60-140



L2517598

Project Name: Lab Number: SPS TECHNOLOGIES

Project Number: Report Date: 658978

03/26/25

SAMPLE RESULTS

Lab ID: L2517598-02 Date Collected: 03/25/25 12:35

Client ID: Date Received: 03/25/25 SW2-032525 Field Prep: Sample Location: Refer to COC JENKINTOWN, PA

Sample Depth:

Matrix: Water Analytical Method: 128,624.1 Analytical Date: 03/26/25 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
Volatile Organics by GC/MS - Westborough Lab									
Toluene	ND		mg/l	0.0010	0.00031	1			
2-Butanone	ND		mg/l	0.010	0.0010	1			

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Pentafluorobenzene	78		60-140	
Fluorobenzene	72		60-140	
4-Bromofluorobenzene	119		60-140	



L2517598

Project Name: Lab Number: SPS TECHNOLOGIES

Project Number: Report Date: 658978 03/26/25

SAMPLE RESULTS

Lab ID: L2517598-03 Date Collected: 03/25/25 13:45

Client ID: Date Received: 03/25/25 SW3-032525 Field Prep: Sample Location: Refer to COC JENKINTOWN, PA

Sample Depth:

Matrix: Water Analytical Method: 128,624.1 Analytical Date: 03/26/25 12:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS -	Westborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
Pentafluorobenzene	77	60-140	
Fluorobenzene	72	60-140	
4-Bromofluorobenzene	120	60-140	



L2517598

Project Name: Lab Number: SPS TECHNOLOGIES

Project Number: Report Date: 658978 03/26/25

SAMPLE RESULTS

Lab ID: L2517598-04 Date Collected: 03/25/25 11:00

Client ID: Date Received: 03/25/25 SW4-032525 Field Prep: Sample Location: Refer to COC JENKINTOWN, PA

Sample Depth:

Matrix: Water Analytical Method: 128,624.1 Analytical Date: 03/26/25 13:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS -	Westborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
Pentafluorobenzene	77	60-140	
Fluorobenzene	75	60-140	
4-Bromofluorobenzene	118	60-140	



03/25/25 09:45

Project Name: SPS TECHNOLOGIES

Project Number: 658978

SAMPLE RESULTS

Lab Number: L2517598

Report Date: 03/26/25

Lab ID: L2517598-05 Date Collected:

Client ID: SW5-032525 Sample Location:

JENKINTOWN, PA

Date Received: 03/25/25 Field Prep: Refer to COC

Sample Depth:

Matrix: Water Analytical Method: 128,624.1 Analytical Date: 03/26/25 13:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westboroug	ıh Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Pentafluorobenzene	76		60-140	
Fluorobenzene	71		60-140	
4-Bromofluorobenzene	121		60-140	



Project Name: SPS TECHNOLOGIES **Lab Number:** L2517598

Project Number: 658978 Report Date: 03/26/25

SAMPLE RESULTS

Lab ID: L2517598-06 Date Collected: 03/25/25 08:00

Client ID: DUP-032525 Date Received: 03/25/25 Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 03/26/25 14:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westboroug	ıh Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Pentafluorobenzene	78		60-140	
Fluorobenzene	69		60-140	
4-Bromofluorobenzene	113		60-140	



L2517598

03/23/25 00:00

Project Name: SPS TECHNOLOGIES

Project Number: 658978

SAMPLE RESULTS

Report Date: 03/26/25

Lab ID: L2517598-07 Client ID:

TRIP BLANK-032525 Sample Location: JENKINTOWN, PA

Date Received: 03/25/25 Field Prep: None

Lab Number:

Date Collected:

Sample Depth:

Matrix: Water Analytical Method: 128,624.1 Analytical Date: 03/26/25 10:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS -	Westborough Lab						
Toluene	ND		mg/l	0.0010	0.00031	1	
2-Butanone	ND		mg/l	0.010	0.0010	1	
					Acce	ptance	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Pentafluorobenzene	82		60-140	
Fluorobenzene	74		60-140	
4-Bromofluorobenzene	120		60-140	



METALS



Project Name: SPS TECHNOLOGIES Lab Number: L2517598

Project Number: 658978 Report Date: 03/26/25

SAMPLE RESULTS

 Lab ID:
 L2517598-01
 Date Collected:
 03/25/25 11:45

 Client ID:
 SW1-032525
 Date Received:
 03/25/25

Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

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 Lab										
Chromium, Total	0.00044	J	mg/l	0.00100	0.00017	1	03/26/25 07:30	0 03/26/25 11:14	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00104	J	mg/l	0.00200	0.00055	1	03/26/25 07:30	0 03/26/25 11:14	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfie	eld Lab								
Hardness	212.6		mg/l	0.5400	NA	1	03/26/25 07:30	0 03/26/25 11:14	EPA 3005A	3,200.8	NTB
General Chemistry	- Mansfield	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/26/25 11:14	NA	107,-	
Dissolved Metals - N	Mansfield	Lab									
Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	03/26/25 07:30	0 03/26/25 11:51	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	1	03/26/25 07:30	0 03/26/25 11:51	EPA 3005A	3,200.8	BLR



Project Name:SPS TECHNOLOGIESLab Number:L2517598

Project Number: 658978 Report Date: 03/26/25

SAMPLE RESULTS

 Lab ID:
 L2517598-02
 Date Collected:
 03/25/25 12:35

 Client ID:
 SW2-032525
 Date Received:
 03/25/25

Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

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 Lab										
Chromium, Total	0.00066	J	mg/l	0.00100	0.00017	1	03/26/25 07:30	03/26/25 11:18	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00252		mg/l	0.00200	0.00055	1	03/26/25 07:30	03/26/25 11:18	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfie	eld Lab								
Hardness	230.5		mg/l	0.5400	NA	1	03/26/25 07:30	03/26/25 11:18	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/26/25 11:18	NA	107,-	
Dissolved Metals - N	/lansfield l	Lab									
Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	03/26/25 07:30	03/26/25 11:56	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0015	J	mg/l	0.0020	0.0006	1	03/26/25 07:30	03/26/25 11:56	EPA 3005A	3,200.8	BLR



Refer to COC

Field Prep:

Project Name: SPS TECHNOLOGIES Lab Number: L2517598

Project Number: 658978 Report Date: 03/26/25

SAMPLE RESULTS

 Lab ID:
 L2517598-03
 Date Collected:
 03/25/25 13:45

 Client ID:
 SW3-032525
 Date Received:
 03/25/25

Sample Depth:

Sample Location:

Matrix: Water

JENKINTOWN, PA

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansi	field Lab										
Chromium, Total	0.00037	J	mg/l	0.00100	0.00017	1	03/26/25 07:30	03/26/25 11:23	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00155	J	mg/l	0.00200	0.00055	1	03/26/25 07:30	03/26/25 11:23	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfie	eld Lab								
Hardness	215.9		mg/l	0.5400	NA	1	03/26/25 07:30	03/26/25 11:23	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/26/25 11:23	NA	107,-	
Dissolved Metals - N	/lansfield l	Lab									
Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	03/26/25 07:30	03/26/25 12:00	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0007	J	mg/l	0.0020	0.0006	1	03/26/25 07:30	03/26/25 12:00	EPA 3005A	3,200.8	BLR



Project Name: SPS TECHNOLOGIES Lab Number: L2517598

Project Number: 658978 Report Date: 03/26/25

SAMPLE RESULTS

 Lab ID:
 L2517598-04
 Date Collected:
 03/25/25 11:00

 Client ID:
 SW4-032525
 Date Received:
 03/25/25

 Sample Location:
 JENKINTOWN, PA
 Field Prep:
 Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
- Tarameter	Nesuit	Qualifier	Units	KL	IVIDL						Analyst
Total Metals - Mans	field Lab										
Chromium, Total	0.00072	J	mg/l	0.00100	0.00017	1	03/26/25 07:30	03/26/25 11:27	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00159	J	mg/l	0.00200	0.00055	1	03/26/25 07:30	03/26/25 11:27	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfi	eld Lab								
Hardness	152.7		mg/l	0.5400	NA	1	03/26/25 07:30	03/26/25 11:27	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/26/25 11:27	NA	107,-	
Dissolved Metals - N	/lansfield l	Lab									
Chromium, Dissolved	0.0005	J	mg/l	0.0010	0.0002	1	03/26/25 07:30	03/26/25 12:05	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0008	J	mg/l	0.0020	0.0006	1	03/26/25 07:30	03/26/25 12:05	EPA 3005A	3,200.8	BLR



Project Name: Lab Number: SPS TECHNOLOGIES L2517598

Project Number: Report Date: 658978 03/26/25

SAMPLE RESULTS

Lab ID: L2517598-05 Date Collected: 03/25/25 09:45 Client ID: SW5-032525 Date Received: 03/25/25 JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Sample Location:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
	Trooun	quamior					<u> </u>	-			Allaryot
Total Metals - Mans	field Lab										
Chromium, Total	0.00087	J	mg/l	0.00100	0.00017	1	03/26/25 07:30	03/26/25 11:00	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00147	J	mg/l	0.00200	0.00055	1	03/26/25 07:30	03/26/25 11:00	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfi	eld Lab								
Hardness	126.3		mg/l	0.5400	NA	1	03/26/25 07:30	03/26/25 11:00	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/26/25 11:00	NA	107,-	
Dissolved Metals - N	/lansfield l	Lab									
Chromium, Dissolved	0.0016		mg/l	0.0010	0.0002	1	03/26/25 07:30	03/26/25 11:37	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0006	J	mg/l	0.0020	0.0006	1	03/26/25 07:30	03/26/25 11:37	EPA 3005A	3,200.8	BLR



Project Name: SPS TECHNOLOGIES Lab Number: L2517598

Project Number: 658978 Report Date: 03/26/25

SAMPLE RESULTS

 Lab ID:
 L2517598-06
 Date Collected:
 03/25/25 08:00

 Client ID:
 DUP-032525
 Date Received:
 03/25/25

 Sample Location:
 JENKINTOWN, PA
 Field Prep:
 Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansf	ield Lab										
Chromium, Total	0.00038	J	mg/l	0.00100	0.00017	1	03/26/25 07:30	03/26/25 11:32	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00152	J	mg/l	0.00200	0.00055	1	03/26/25 07:30	03/26/25 11:32	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfie	eld Lab								
Hardness	222.6		mg/l	0.5400	NA	1	03/26/25 07:30	03/26/25 11:32	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/26/25 11:32	NA	107,-	
Dissolved Metals - N	lansfield I	_ab									
Chromium, Dissolved	0.0002	J	mg/l	0.0010	0.0002	1	03/26/25 07:30	03/26/25 12:10	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0006	J	mg/l	0.0020	0.0006	1	03/26/25 07:30	03/26/25 12:10	EPA 3005A	3,200.8	BLR



INORGANICS & MISCELLANEOUS



L2517598

Project Name: Lab Number: SPS TECHNOLOGIES

Report Date:

Project Number: 658978

03/26/25

SAMPLE RESULTS

Lab ID: L2517598-01 Date Collected: 03/25/25 11:45

Client ID: Date Received: SW1-032525 03/25/25 Refer to COC Sample Location: JENKINTOWN, PA

Field Prep:

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westb	orough Lab)								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/26/25 10:45	03/26/25 14:34	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/26/25 06:59	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/26/25 08:06	03/26/25 12:07	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/26/25 04:30	03/26/25 05:05	121,3500CR-B	CAR



Project Name: SPS TECHNOLOGIES Lab Number:

L2517598

Project Number: 658978 **Report Date:**

03/26/25

SAMPLE RESULTS

Lab ID: L2517598-02 Date Collected:

03/25/25 12:35

Client ID: SW2-032525 Date Received:

03/25/25

Sample Location: JENKINTOWN, PA

Field Prep:

Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lat)								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/26/25 10:45	03/26/25 14:42	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/26/25 06:59	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/26/25 08:06	03/26/25 12:10	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/26/25 04:30	03/26/25 05:05	121,3500CR-B	CAR



L2517598

Project Name: SPS TECHNOLOGIES Lab Number:

Project Number: 658978 Report Date: 03/26/25

SAMPLE RESULTS

Lab ID: L2517598-03 Date Collected: 03/25/25 13:45

Client ID: SW3-032525 Date Received: 03/25/25 Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lat									
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/26/25 10:45	03/26/25 14:43	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/26/25 06:59	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/26/25 08:06	03/26/25 12:11	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/26/25 04:30	03/26/25 05:06	121,3500CR-B	CAR



Lab Number:

Project Name: SPS TECHNOLOGIES

L2517598 Project Number: **Report Date:** 658978 03/26/25

SAMPLE RESULTS

Lab ID: Date Collected: L2517598-04 03/25/25 11:00

Client ID: Date Received: SW4-032525 03/25/25 Refer to COC Sample Location: JENKINTOWN, PA Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westb	orough Lak)								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/26/25 10:45	03/26/25 14:44	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/26/25 06:59	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/26/25 08:06	03/26/25 12:12	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/26/25 04:30	03/26/25 05:06	121,3500CR-B	CAR



L2517598

Project Name: SPS TECHNOLOGIES Lab Number:

Project Number: 658978 Report Date: 03/26/25

SAMPLE RESULTS

Lab ID: L2517598-05 Date Collected: 03/25/25 09:45

Client ID: SW5-032525 Date Received: 03/25/25 Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lat									
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/26/25 10:45	03/26/25 14:45	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/26/25 06:59	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/26/25 08:06	03/26/25 09:36	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/26/25 04:30	03/26/25 05:06	121,3500CR-B	CAR



Lab Number:

Project Name: SPS TECHNOLOGIES

L2517598 Project Number: **Report Date:** 658978 03/26/25

SAMPLE RESULTS

Lab ID: Date Collected: L2517598-06 03/25/25 08:00

Client ID: DUP-032525 Date Received: 03/25/25 Refer to COC Sample Location: JENKINTOWN, PA Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab)								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/26/25 10:45	03/26/25 14:49	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/26/25 06:59	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/26/25 08:06	03/26/25 12:14	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/26/25 04:30	03/26/25 05:06	121,3500CR-B	CAR





ANALYTICAL REPORT

Lab Number: L2517598

Client: TRC Environmental

1617 JFK Blvd.

Suite 510

Philadelphia, PA 19103

ATTN: Julie Acton
Phone: (215) 563-2122

Project Name: SPS TECHNOLOGIES

Project Number: 658978 Report Date: 03/26/25

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



Project Name: SPS TECHNOLOGIES

Project Number: 658978

 Lab Number:
 L2517598

 Report Date:
 03/26/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2517598-01	SW1-032525	WATER	JENKINTOWN, PA	03/25/25 11:45	03/25/25
L2517598-02	SW2-032525	WATER	JENKINTOWN, PA	03/25/25 12:35	03/25/25
L2517598-03	SW3-032525	WATER	JENKINTOWN, PA	03/25/25 13:45	03/25/25
L2517598-04	SW4-032525	WATER	JENKINTOWN, PA	03/25/25 11:00	03/25/25
L2517598-05	SW5-032525	WATER	JENKINTOWN, PA	03/25/25 09:45	03/25/25
L2517598-06	DUP-032525	WATER	JENKINTOWN, PA	03/25/25 08:00	03/25/25
L2517598-07	TRIP BLANK-032525	WATER	JENKINTOWN, PA	03/23/25 00:00	03/25/25



L2517598

Lab Number:

Project Name: SPS TECHNOLOGIES

Project Number: 658978 Report Date: 03/26/25

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.

rodoc contact i rojost management at coo oz i ozze min any quodicno.	riojost management at eee ez r ezze mar an, queenener							

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



Project Name: SPS TECHNOLOGIES Lab Number: L2517598

Project Number: 658978 Report Date: 03/26/25

Case Narrative (continued)

Report Submission

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

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

Authorized Signature:

Title: Technical Director/Representative Date: 03/26/25

Melissa Sturgis Melissa Sturgis

Pace

ORGANICS



VOLATILES



Project Name: SPS TECHNOLOGIES Lab Number: L2517598

Project Number: 658978 Report Date: 03/26/25

SAMPLE RESULTS

Lab ID: Date Collected: 03/25/25 11:45

Client ID: SW1-032525 Date Received: 03/25/25 Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 03/26/25 11:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS -	Westborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
Pentafluorobenzene	82	60-140	
Fluorobenzene	73	60-140	
4-Bromofluorobenzene	123	60-140	



L2517598

03/26/25

03/25/25 12:35

Project Name: SPS TECHNOLOGIES

Project Number: 658978

Lab Number:

Report Date:

Date Collected:

SAMPLE RESULTS

Lab ID: L2517598-02

Client ID: SW2-032525 Sample Location: JENKINTOWN, PA Date Received: 03/25/25 Field Prep: Refer to COC

Sample Depth:

Matrix: Water Analytical Method: 128,624.1 Analytical Date: 03/26/25 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - 1	Westborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
					A	ntanaa

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	78		60-140
Fluorobenzene	72		60-140
4-Bromofluorobenzene	119		60-140



L2517598

03/25/25 13:45

Project Name: SPS TECHNOLOGIES

Project Number: 658978

SAMPLE RESULTS

Report Date: 03/26/25

Lab Number:

Date Collected:

Lab ID: L2517598-03

Client ID: SW3-032525 Sample Location: JENKINTOWN, PA Date Received: 03/25/25 Field Prep: Refer to COC

Sample Depth:

Matrix: Water Analytical Method: 128,624.1 Analytical Date: 03/26/25 12:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS -	· Westborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	77		60-140
Fluorobenzene	72		60-140
4-Bromofluorobenzene	120		60-140



Project Name: SPS TECHNOLOGIES

Project Number: 658978

SAMPLE RESULTS

Lab Number: L2517598

LZ317330

03/25/25 11:00

Report Date: 03/26/25

Lab ID: L2517598-04

Client ID: SW4-032525 Sample Location: JENKINTOWN, PA Date Received: 03/25/25 Field Prep: Refer to COC

Date Collected:

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 03/26/25 13:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor				
Volatile Organics by GC/MS - Westborough Lab										
Toluene	ND		mg/l	0.0010	0.00031	1				
2-Butanone	ND		mg/l	0.010	0.0010	1				

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	77		60-140
Fluorobenzene	75		60-140
4-Bromofluorobenzene	118		60-140



03/25/25 09:45

Project Name: SPS TECHNOLOGIES

Project Number: 658978

SAMPLE RESULTS

Lab Number: L2517598

Report Date: 03/26/25

Lab ID: L2517598-05

Client ID: SW5-032525 Sample Location: JENKINTOWN, PA Date Received: 03/25/25 Field Prep: Refer to COC

Date Collected:

Sample Depth:

Matrix: Water Analytical Method: 128,624.1 Analytical Date: 03/26/25 13:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor					
Volatile Organics by GC/MS - Westborough Lab											
Toluene	ND		mg/l	0.0010	0.00031	1					
2-Butanone	ND		mg/l	0.010	0.0010	1					

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Pentafluorobenzene	76		60-140	
Fluorobenzene	71		60-140	
4-Bromofluorobenzene	121		60-140	



L2517598

Project Name: Lab Number: SPS TECHNOLOGIES

Project Number: Report Date:

658978 03/26/25

SAMPLE RESULTS

Lab ID: Date Collected: 03/25/25 08:00 L2517598-06

Client ID: Date Received: 03/25/25 DUP-032525 Field Prep: Sample Location: Refer to COC JENKINTOWN, PA

Sample Depth:

Matrix: Water Analytical Method: 128,624.1 Analytical Date: 03/26/25 14:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor				
Volatile Organics by GC/MS - Westborough Lab										
Toluene	ND		mg/l	0.0010	0.00031	1				
2-Butanone	ND		mg/l	0.010	0.0010	1				

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Pentafluorobenzene	78		60-140	
Fluorobenzene	69		60-140	
4-Bromofluorobenzene	113		60-140	



Project Name: SPS TECHNOLOGIES

Project Number: 658978

SAMPLE RESULTS

Lab Number: L2517598

None

03/26/25

Lab ID: L2517598-07

Client ID: TRIP BLANK-032525 Sample Location: JENKINTOWN, PA

Date Collected: 03/23/25 00:00 Date Received: 03/25/25

Report Date:

Field Prep:

Sample Depth:

Matrix: Water Analytical Method: 128,624.1 Analytical Date: 03/26/25 10:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor				
Volatile Organics by GC/MS - Westborough Lab										
Toluene	ND		mg/l	0.0010	0.00031	1				
2-Butanone	ND		mg/l	0.010	0.0010	1				
2-Butanone	ND		mg/l	0.010	0.0010	1				

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	82		60-140
Fluorobenzene	74		60-140
4-Bromofluorobenzene	120		60-140



Project Name: SPS TECHNOLOGIES Lab Number: L2517598

Project Number: 658978 Report Date: 03/26/25

Method Blank Analysis Batch Quality Control

Analytical Method: 128,624.1 Analytical Date: 03/26/25 10:24

Parameter	Result	Qualifier	Units	RL	MDL	
Volatile Organics by GC/MS - West	tborough Lat	o for sampl	e(s): 01-07	Batch:	WG2045587-4	
Toluene	ND		mg/l	0.0010	0.00031	
2-Butanone	ND		mg/l	0.010	0.0010	

		Acceptance
Surrogate	%Recovery	Qualifier Criteria
Pentafluorobenzene	83	60-140
Fluorobenzene	72	60-140
4-Bromofluorobenzene	118	60-140



Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: 658978

Lab Number:

L2517598

Report Date:

03/26/25

Para	ameter	LCS %Recovery	Qual	LCSD %Recove		Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Vola	atile Organics by GC/MS - Westborough	h Lab Associat	ed sample(s)	: 01-07 l	Batch:	WG204	5587-3				
	Toluene	120		-			70-130	-		41	
:	2-Butanone	68		-			60-140	-		30	

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
Pentafluorobenzene	89		60-140
Fluorobenzene	86		60-140
4-Bromofluorobenzene	108		60-140



Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: 658978

Lab Number:

L2517598

Report Date:

03/26/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recove Qual Limits	,	=	RPD imits
Volatile Organics by GC/MS Client ID: SW5-032525	- Westborou	ugh Lab Ass	sociated san	nple(s): 01-07	QC Bato	ch ID: WG	32045587-5 V	VG2045587-6	QC Samp	le: L25175	598-05
Toluene	ND	0.00002	0.023	115		0.025	125	47-150	8		41
2-Butanone	ND	0.00005	0.030	60		0.031	62	60-140	3		30

	MS	MSD	Acceptance
Surrogate	% Recovery Qualifier	% Recovery Qualifier	Criteria
4-Bromofluorobenzene	117	115	60-140
Fluorobenzene	84	81	60-140
Pentafluorobenzene	87	85	60-140



METALS



Project Name: SPS TECHNOLOGIES Lab Number: L2517598

Project Number: 658978 Report Date: 03/26/25

SAMPLE RESULTS

 Lab ID:
 L2517598-01
 Date Collected:
 03/25/25 11:45

 Client ID:
 SW1-032525
 Date Received:
 03/25/25

Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Chromium, Total	0.00044	J	mg/l	0.00100	0.00017	1	03/26/25 07:30	03/26/25 11:14	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00104	J	mg/l	0.00200	0.00055	1	03/26/25 07:30	03/26/25 11:14	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfi	eld Lab								
Hardness	212.6		mg/l	0.5400	NA	1	03/26/25 07:30	03/26/25 11:14	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfiel	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/26/25 11:14	NA	107,-	
Dissolved Metals - N	/lansfield	Lab									
Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	03/26/25 07:30	03/26/25 11:51	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	1	03/26/25 07:30	03/26/25 11:51	EPA 3005A	3,200.8	BLR



Project Name:SPS TECHNOLOGIESLab Number:L2517598

Project Number: 658978 Report Date: 03/26/25

SAMPLE RESULTS

 Lab ID:
 L2517598-02
 Date Collected:
 03/25/25 12:35

 Client ID:
 SW2-032525
 Date Received:
 03/25/25

Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Chromium, Total	0.00066	J	mg/l	0.00100	0.00017	1	03/26/25 07:30	03/26/25 11:18	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00252		mg/l	0.00200	0.00055	1	03/26/25 07:30	03/26/25 11:18	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfie	eld Lab								
Hardness	230.5		mg/l	0.5400	NA	1	03/26/25 07:30	03/26/25 11:18	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/26/25 11:18	NA	107,-	
Dissolved Metals - N	/lansfield l	Lab									
Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	03/26/25 07:30	03/26/25 11:56	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0015	J	mg/l	0.0020	0.0006	1	03/26/25 07:30	03/26/25 11:56	EPA 3005A	3,200.8	BLR



Project Name: SPS TECHNOLOGIES Lab Number: L2517598

Project Number: 658978 Report Date: 03/26/25

SAMPLE RESULTS

 Lab ID:
 L2517598-03
 Date Collected:
 03/25/25 13:45

 Client ID:
 SW3-032525
 Date Received:
 03/25/25

Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Chromium, Total	0.00037	J	mg/l	0.00100	0.00017	1	03/26/25 07:30	03/26/25 11:23	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00155	J	mg/l	0.00200	0.00055	1	03/26/25 07:30	03/26/25 11:23	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfi	eld Lab								
Hardness	215.9		mg/l	0.5400	NA	1	03/26/25 07:30	03/26/25 11:23	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/26/25 11:23	NA	107,-	
Dissolved Metals - N	/lansfield	Lab									
Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	03/26/25 07:30	03/26/25 12:00	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0007	J	mg/l	0.0020	0.0006	1	03/26/25 07:30	0 03/26/25 12:00	EPA 3005A	3,200.8	BLR



Project Name: SPS TECHNOLOGIES Lab Number: L2517598

Project Number: 658978 Report Date: 03/26/25

SAMPLE RESULTS

 Lab ID:
 L2517598-04
 Date Collected:
 03/25/25 11:00

 Client ID:
 SW4-032525
 Date Received:
 03/25/25

 Sample Location:
 JENKINTOWN, PA
 Field Prep:
 Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansf	ield Lab										
Chromium, Total	0.00072	J	mg/l	0.00100	0.00017	1	03/26/25 07:30	03/26/25 11:27	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00159	J	mg/l	0.00200	0.00055	1	03/26/25 07:30	03/26/25 11:27	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfie	eld Lab								
Hardness	152.7		mg/l	0.5400	NA	1	03/26/25 07:30	03/26/25 11:27	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/26/25 11:27	NA	107,-	
Dissolved Metals - M	lansfield I	_ab									
Chromium, Dissolved	0.0005	J	mg/l	0.0010	0.0002	1	03/26/25 07:30	03/26/25 12:05	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0008	J	mg/l	0.0020	0.0006	1	03/26/25 07:30	03/26/25 12:05	EPA 3005A	3,200.8	BLR



Project Name:SPS TECHNOLOGIESLab Number:L2517598

Project Number: 658978 Report Date: 03/26/25

SAMPLE RESULTS

 Lab ID:
 L2517598-05
 Date Collected:
 03/25/25 09:45

 Client ID:
 SW5-032525
 Date Received:
 03/25/25

Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
	Trooun	quamior					<u> </u>	-			Allaryot
Total Metals - Mans	field Lab										
Chromium, Total	0.00087	J	mg/l	0.00100	0.00017	1	03/26/25 07:30	03/26/25 11:00	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00147	J	mg/l	0.00200	0.00055	1	03/26/25 07:30	03/26/25 11:00	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfi	eld Lab								
Hardness	126.3		mg/l	0.5400	NA	1	03/26/25 07:30	03/26/25 11:00	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/26/25 11:00	NA	107,-	
Dissolved Metals - N	/lansfield l	Lab									
Chromium, Dissolved	0.0016		mg/l	0.0010	0.0002	1	03/26/25 07:30	03/26/25 11:37	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0006	J	mg/l	0.0020	0.0006	1	03/26/25 07:30	03/26/25 11:37	EPA 3005A	3,200.8	BLR



Project Name: SPS TECHNOLOGIES Lab Number: L2517598

Project Number: 658978 Report Date: 03/26/25

SAMPLE RESULTS

 Lab ID:
 L2517598-06
 Date Collected:
 03/25/25 08:00

 Client ID:
 DUP-032525
 Date Received:
 03/25/25

 Sample Location:
 JENKINTOWN, PA
 Field Prep:
 Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansf	field Lab										
Chromium, Total	0.00038	J	mg/l	0.00100	0.00017	1	03/26/25 07:30	03/26/25 11:32	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00152	J	mg/l	0.00200	0.00055	1	03/26/25 07:30	03/26/25 11:32	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfie	eld Lab								
Hardness	222.6		mg/l	0.5400	NA	1	03/26/25 07:30	03/26/25 11:32	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/26/25 11:32	NA	107,-	
Dissolved Metals - N	/lansfield l	_ab									
Chromium, Dissolved	0.0002	J	mg/l	0.0010	0.0002	1	03/26/25 07:30	03/26/25 12:10	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0006	J	mg/l	0.0020	0.0006	1	03/26/25 07:30	03/26/25 12:10	EPA 3005A	3,200.8	BLR



Project Name: SPS TECHNOLOGIES

Project Number: 658978

Lab Number:

L2517598

Report Date:

03/26/25

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	· Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	l Analyst
Total Metals - Mansfiel	d Lab for sample(s)	: 01-06 E	Batch: WC	G20452	30-1				
Chromium, Total	ND	mg/l	0.00100	0.00017	7 1	03/26/25 07:30	03/26/25 10:51	3,200.8	NTB
Nickel, Total	ND	mg/l	0.00200	0.00055	5 1	03/26/25 07:30	03/26/25 10:51	3,200.8	NTB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness (by cal	culation) - Mansfield L	ab for sa	ample(s):	01-06	Batch: V	VG2045230-1			
Hardness	ND	mg/l	0.5400	NA	1	03/26/25 07:30	03/26/25 10:51	3,200.8	NTB

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	e(s): 01-06	Batch	: WG20	045231-1				
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/26/25 07:30	03/26/25 11:28	3,200.8	BLR
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	1	03/26/25 07:30	03/26/25 11:28	3,200.8	BLR

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: 658978

Lab Number:

L2517598

Report Date:

03/26/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sa	mple(s): 01-06	Batch: W	G2045230-2					
Chromium, Total	100		-		85-115	-		
Nickel, Total	105		-		85-115	-		
Total Hardness (by calculation) - Mansfield I	_ab Associated	sample(s)	: 01-06 Batch: V	VG204523	0-2			
Hardness	106		-		85-115	-		
Dissolved Metals - Mansfield Lab Associate	d sample(s): 01	-06 Batc	ch: WG2045231-2					
Chromium, Dissolved	95		-		85-115	-		
Nickel, Dissolved	101		-		85-115	-		



Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: 658978

Lab Number:

L2517598

Report Date:

03/26/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual Limits	RPD	RPD Qual Limits
Total Metals - Mansfield Lab A	ssociated sam	ple(s): 01-06	QC Bat	ch ID: WG204	5230-3	WG204523	0-4 QC Sam	ple: L2517598-05	Clien	t ID: SW5-032525
Chromium, Total	0.00087J	0.2	0.2064	103		0.2079	104	70-130	1	20
Nickel, Total	0.00147J	0.5	0.5385	108		0.5437	109	70-130	1	20
Total Hardness (by calculation) ID: SW5-032525 Hardness) - Mansfield L	ab Associate	d sample(s): 01-06 QC	Batch	ID: WG2045	230-3 WG20 110	45230-4 QC Sam	ple: L2	517598-05 Client
Dissolved Metals - Mansfield L 032525					9204523			Sample: L2517598		Client ID: SW5-
Chromium, Dissolved	0.0016	0.2	0.2193	109		0.2091	104	70-130	5	20
Nickel, Dissolved	0.0006J	0.5	0.5746	115		0.5586	112	70-130	3	20



INORGANICS & MISCELLANEOUS



L2517598

Project Name: Lab Number: SPS TECHNOLOGIES

Report Date:

Project Number: 658978

03/26/25

SAMPLE RESULTS

Lab ID: Date Collected: L2517598-01 03/25/25 11:45

Client ID: SW1-032525 Date Received: 03/25/25 Refer to COC Sample Location: JENKINTOWN, PA Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough Lab)								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/26/25 10:45	03/26/25 14:34	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/26/25 06:59	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/26/25 08:06	03/26/25 12:07	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/26/25 04:30	03/26/25 05:05	121,3500CR-B	CAR



L2517598

Project Name: SPS TECHNOLOGIES Lab Number:

Project Number: 658978 Report Date: 03/26/25

SAMPLE RESULTS

Lab ID: L2517598-02 Date Collected: 03/25/25 12:35

Client ID: SW2-032525 Date Received: 03/25/25 Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lat									
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/26/25 10:45	03/26/25 14:42	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/26/25 06:59	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/26/25 08:06	03/26/25 12:10	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/26/25 04:30	03/26/25 05:05	121,3500CR-B	CAR



L2517598

Project Name: Lab Number: SPS TECHNOLOGIES

> **Report Date:** 03/26/25

Project Number: 658978

SAMPLE RESULTS

Lab ID: Date Collected: L2517598-03 03/25/25 13:45

Client ID: Date Received: SW3-032525 03/25/25 Refer to COC Sample Location: JENKINTOWN, PA Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westbo	orough Lak)								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/26/25 10:45	03/26/25 14:43	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/26/25 06:59	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/26/25 08:06	03/26/25 12:11	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/26/25 04:30	03/26/25 05:06	121,3500CR-B	CAR



Lab Number:

Project Name: SPS TECHNOLOGIES

L2517598

Project Number: **Report Date:** 658978 03/26/25

SAMPLE RESULTS

Lab ID: Date Collected: L2517598-04 03/25/25 11:00

Client ID: Date Received: SW4-032525 03/25/25 Refer to COC Sample Location: JENKINTOWN, PA Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westbo	orough Lab)								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/26/25 10:45	03/26/25 14:44	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/26/25 06:59	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/26/25 08:06	03/26/25 12:12	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/26/25 04:30	03/26/25 05:06	121,3500CR-B	CAR



Project Name: Lab Number: SPS TECHNOLOGIES

L2517598

Project Number: **Report Date:** 658978 03/26/25

SAMPLE RESULTS

Lab ID: Date Collected: L2517598-05 03/25/25 09:45

Client ID: Date Received: SW5-032525 03/25/25

Refer to COC Sample Location: JENKINTOWN, PA Field Prep:

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lat									
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/26/25 10:45	03/26/25 14:45	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/26/25 06:59	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/26/25 08:06	03/26/25 09:36	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/26/25 04:30	03/26/25 05:06	121,3500CR-B	CAR



Project Name: SPS TECHNOLOGIES

Project Number: 658978 Lab Number:

L2517598

Report Date: 03/26/25

SAMPLE RESULTS

Lab ID: L2517598-06

DUP-032525

Sample Location: JENKINTOWN, PA

Date Collected:

03/25/25 08:00

Date Received:

03/25/25

Field Prep:

Refer to COC

Sample Depth:

Client ID:

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - West	tborough Lat)								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/26/25 10:45	03/26/25 14:49	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/26/25 06:59	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/26/25 08:06	03/26/25 12:14	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/26/25 04:30	03/26/25 05:06	121,3500CR-B	CAR



L2517598

Lab Number:

Project Name: SPS TECHNOLOGIES

Report Date: **Project Number:** 658978 03/26/25

N

Method	Blank	Analysis
Batch	Quality	Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	<u>Analys</u> t
General Chemistry - Wes	stborough Lab for sam	ple(s): 01	I-06 Bat	tch: WG	32045210-	1			
Chromium, Hexavalent	ND	mg/l	0.010	0.003	1	03/26/25 04:30	03/26/25 05:04	121,3500CR-B	CAR
General Chemistry - Wes	stborough Lab for sam	ple(s): 01	I-06 Bat	tch: WC	32045247-	1			
Cyanide, Free	ND	mg/l	0.010	0.003	1	-	03/26/25 06:59	121,4500CN-E(M	M) KAF
General Chemistry - Wes	stborough Lab for sam	ple(s): 01	I-06 Bat	tch: WG	32045324-	1			
Oil & Grease, Hem-Grav	ND	mg/l	4.0	4.0	1	03/26/25 08:06	03/26/25 09:34	140,1664B	TPR
General Chemistry - Wes	stborough Lab for sam	ple(s): 01	I-06 Bat	tch: WG	32045373-	1			
Cyanide, Total	ND	mg/l	0.005	0.001	1	03/26/25 10:45	03/26/25 14:01	121,4500CN-CE	JER



Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: 658978

Lab Number:

L2517598

Report Date:

03/26/25

Parameter	LCS %Recovery Q	ual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 0	1-06	Batch: WG20452	210-2				
Chromium, Hexavalent	101		-		85-115	-		20
General Chemistry - Westborough Lab	Associated sample(s): 0	1-06	Batch: WG20452	247-2				
Cyanide, Free	102		-		90-110	-		
General Chemistry - Westborough Lab	Associated sample(s): 0	1-06	Batch: WG20453	324-2				
Oil & Grease, Hem-Grav	101		-		78-114	-		18
General Chemistry - Westborough Lab	Associated sample(s): 0	1-06	Batch: WG20453	373-2				
Cyanide, Total	97		-		90-110	-		



Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: 658978

Lab Number:

L2517598

Report Date:

03/26/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD Q	RPD ual Limits
General Chemistry - Westboroug SW5-032525	gh Lab Asso	ciated samp	le(s): 01-06	QC Batch II	D: WG20)45210-4	WG2045210-5	QC Sa	ample: L25	17598-05	Client ID:
Chromium, Hexavalent	ND	0.1	0.105	105		0.104	104		85-115	1	20
General Chemistry - Westboroug SW5-032525	gh Lab Asso	ciated samp	le(s): 01-06	QC Batch II	D: WG20)45247-4	WG2045247-5	QC Sa	ample: L25	17598-05	Client ID:
Cyanide, Free	ND	0.25	0.257	103		0.259	104		80-120	1	20
General Chemistry - Westboroug SW5-032525	gh Lab Asso	ciated samp	le(s): 01-06	QC Batch II	D: WG20)45324-4	WG2045324-5	QC Sa	ample: L25	17598-05	Client ID:
Oil & Grease, Hem-Grav	ND	39.2	38	98		39	99		78-114	1	18
General Chemistry - Westboroug SW5-032525	gh Lab Asso	ciated samp	le(s): 01-06	QC Batch II	D: WG20)45373-3	WG2045373-4	QC Sa	ample: L25	17598-05	Client ID:
Cyanide, Total	ND	0.2	0.195	98		0.198	99		90-110	2	30



Lab Duplicate Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: 658978

Lab Number:

L2517598

Report Date:

03/26/25

Parameter	Native Sam	ple D	uplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated samp	ole(s): 01-06	QC Batch ID:	WG2045210-3	QC Sample:	L2517598-01	Client ID:	SW1-032525
Chromium, Hexavalent	ND		ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated samp	ole(s): 01-06	QC Batch ID:	WG2045247-3	QC Sample:	L2517598-05	Client ID:	SW5-032525
Cyanide, Free	ND		ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated samp	ole(s): 01-06	QC Batch ID:	WG2045324-3	QC Sample:	L2517598-05	Client ID:	SW5-032525
Oil & Grease, Hem-Grav	ND		ND	mg/l	NC		18
General Chemistry - Westborough Lab Associated samp	ole(s): 01-06	QC Batch ID:	WG2045373-5	QC Sample:	L2517598-05	Client ID:	SW5-032525
Cyanide, Total	ND		ND	mg/l	NC		30



Project Name: SPS TECHNOLOGIES

Project Number: 658978

Lab Number: L2517598 **Report Date:** 03/26/25

Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

Cooler Information

Cooler	Custody Seal
A	Absent
В	Absent
С	Absent
D	Absent

Container Information			Initial	Final	Temp			Frozen		
	Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
	L2517598-01A	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
	L2517598-01B	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
	L2517598-01C	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
	L2517598-01D	Plastic 250ml HNO3 preserved	D	<2	<2	2.0	Υ	Absent		CR-2008S(180),NI-2008S(180)
	L2517598-01E	Plastic 250ml HNO3 preserved	D	<2	<2	2.0	Υ	Absent		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
	L2517598-01F	Plastic 250ml NaOH preserved	D	>12	>12	2.0	Υ	Absent		TCN-4500(14)
	L2517598-01G	Plastic 500ml unpreserved	D	7	7	2.0	Υ	Absent		HEXCR-3500(1),FCN(1)
	L2517598-01H	Amber 1L HCI preserved	D	NA		2.0	Υ	Absent		OG-1664(28)
	L2517598-01J	Amber 1L HCI preserved	D	NA		2.0	Υ	Absent		OG-1664(28)
	L2517598-02A	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
	L2517598-02B	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
	L2517598-02C	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
	L2517598-02D	Plastic 250ml HNO3 preserved	Α	<2	<2	2.1	Υ	Absent		CR-2008S(180),NI-2008S(180)
	L2517598-02E	Plastic 250ml HNO3 preserved	Α	<2	<2	2.1	Υ	Absent		NI-2008T(180),HARDT-2008(180),CR-2008T(180)
	L2517598-02F	Plastic 250ml NaOH preserved	Α	>12	>12	2.1	Υ	Absent		TCN-4500(14)
	L2517598-02G	Plastic 500ml unpreserved	Α	7	7	2.1	Υ	Absent		HEXCR-3500(1),FCN(1)
	L2517598-02H	Amber 1L HCI preserved	Α	NA		2.1	Υ	Absent		OG-1664(28)
	L2517598-02J	Amber 1L HCl preserved	Α	NA		2.1	Υ	Absent		OG-1664(28)
	L2517598-03A	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)



Lab Number: L2517598

Report Date: 03/26/25

Project Name: SPS TECHNOLOGIES

Project Number: 658978

Container Info	Container Information		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2517598-03B	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
L2517598-03C	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
L2517598-03D	Plastic 250ml HNO3 preserved	D	<2	<2	2.0	Υ	Absent		CR-2008S(180),NI-2008S(180)
L2517598-03E	Plastic 250ml HNO3 preserved	D	<2	<2	2.0	Υ	Absent		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2517598-03F	Plastic 250ml NaOH preserved	D	>12	>12	2.0	Υ	Absent		TCN-4500(14)
L2517598-03G	Plastic 500ml unpreserved	D	7	7	2.0	Υ	Absent		HEXCR-3500(1),FCN(1)
L2517598-03H	Amber 1L HCl preserved	D	NA		2.0	Υ	Absent		OG-1664(28)
L2517598-03J	Amber 1L HCl preserved	D	NA		2.0	Υ	Absent		OG-1664(28)
L2517598-04A	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
L2517598-04B	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
L2517598-04C	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
L2517598-04D	Plastic 250ml HNO3 preserved	D	<2	<2	2.0	Υ	Absent		CR-2008S(180),NI-2008S(180)
L2517598-04E	Plastic 250ml HNO3 preserved	D	<2	<2	2.0	Υ	Absent		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2517598-04F	Plastic 250ml NaOH preserved	D	>12	>12	2.0	Υ	Absent		TCN-4500(14)
L2517598-04G	Plastic 500ml unpreserved	D	7	7	2.0	Υ	Absent		HEXCR-3500(1),FCN(1)
L2517598-04H	Amber 1L HCl preserved	D	NA		2.0	Υ	Absent		OG-1664(28)
L2517598-04J	Amber 1L HCl preserved	D	NA		2.0	Υ	Absent		OG-1664(28)
L2517598-05A	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
L2517598-05A1	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
L2517598-05A2	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
L2517598-05B	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
L2517598-05B1	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
L2517598-05B2	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
L2517598-05C	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
L2517598-05C1	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
L2517598-05C2	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
L2517598-05D	Plastic 250ml HNO3 preserved	С	<2	<2	2.1	Υ	Absent		CR-2008S(180),NI-2008S(180)



Lab Number: L2517598

Report Date: 03/26/25

Project Name: SPS TECHNOLOGIES

Project Number: 658978

Container Info	Container Information			Final	Temp			Frozen	
Container ID	Container Type	Cooler	Initial pH	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2517598-05D1	Plastic 250ml HNO3 preserved	С	<2	<2	2.1	Υ	Absent		CR-2008S(180),NI-2008S(180)
L2517598-05D2	Plastic 250ml HNO3 preserved	С	<2	<2	2.1	Υ	Absent		CR-2008S(180),NI-2008S(180)
L2517598-05E	Plastic 250ml HNO3 preserved	С	<2	<2	2.1	Υ	Absent		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2517598-05E1	Plastic 250ml HNO3 preserved	С	<2	<2	2.1	Υ	Absent		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2517598-05E2	Plastic 250ml HNO3 preserved	С	<2	<2	2.1	Υ	Absent		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2517598-05F	Plastic 250ml NaOH preserved	С	>12	>12	2.1	Υ	Absent		TCN-4500(14)
L2517598-05F1	Plastic 250ml NaOH preserved	С	>12	>12	2.1	Υ	Absent		TCN-4500(14)
L2517598-05F2	Plastic 250ml NaOH preserved	С	>12	>12	2.1	Υ	Absent		TCN-4500(14)
L2517598-05G	Plastic 500ml unpreserved	С	7	7	2.1	Υ	Absent		HEXCR-3500(1),FCN(1)
L2517598-05G1	Plastic 500ml unpreserved	С	7	7	2.1	Υ	Absent		HEXCR-3500(1),FCN(1)
L2517598-05G2	Plastic 500ml unpreserved	С	7	7	2.1	Υ	Absent		HEXCR-3500(1),FCN(1)
L2517598-05H	Amber 1L HCl preserved	С	NA		2.1	Υ	Absent		OG-1664(28)
L2517598-05H1	Amber 1L HCI preserved	С	NA		2.1	Υ	Absent		OG-1664(28)
L2517598-05H2	Amber 1L HCl preserved	С	NA		2.1	Υ	Absent		OG-1664(28)
L2517598-05J	Amber 1L HCl preserved	С	NA		2.1	Υ	Absent		OG-1664(28)
L2517598-05J1	Amber 1L HCl preserved	С	NA		2.1	Υ	Absent		OG-1664(28)
L2517598-05J2	Amber 1L HCI preserved	С	NA		2.1	Υ	Absent		OG-1664(28)
L2517598-06A	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
L2517598-06B	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
L2517598-06C	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)
L2517598-06D	Plastic 250ml HNO3 preserved	Α	<2	<2	2.1	Υ	Absent		CR-2008S(180),NI-2008S(180)
L2517598-06E	Plastic 250ml HNO3 preserved	Α	<2	<2	2.1	Υ	Absent		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2517598-06F	Plastic 250ml NaOH preserved	Α	>12	>12	2.1	Υ	Absent		TCN-4500(14)
L2517598-06G	Plastic 500ml unpreserved	Α	7	7	2.1	Υ	Absent		HEXCR-3500(1),FCN(1)
L2517598-06H	Amber 1L HCl preserved	Α	NA		2.1	Υ	Absent		OG-1664(28)
L2517598-06J	Amber 1L HCl preserved	Α	NA		2.1	Υ	Absent		OG-1664(28)
L2517598-07A	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)



Lab Number: L2517598

Report Date: 03/26/25

Project Name: SPS TECHNOLOGIES Project Number: 658978

Container Info		Initial	Final	Temp					
Container ID	Container Type	Cooler		рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2517598-07B	Vial Na2S2O3 preserved	В	NA		2.3	Υ	Absent		624.1-PPM(7)



GLOSSARY

Acronyms

EDL

LOQ

MS

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

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

of PAHs using Solid-Phase Microextraction (SPME).

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

EPA - Environmental Protection Agency

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

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

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

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

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

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

Organic TIC only requests.

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

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

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

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

associated field samples.

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

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

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

and then summing the resulting values.

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

Report Format: DU Report with 'J' Qualifiers



Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

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

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers



Data Qualifiers

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

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

Report Format: DU Report with 'J' Qualifiers



REFERENCES

- 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.
- 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.



Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

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Published Date: 01/24/2025

Certification Information

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

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

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

EPA 625.1: alpha-Terpineol

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

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS.

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

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

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

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

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

Nonpotable Water: EPA RSK-175 Dissolved Gases

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

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

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

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

Drinking Water

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

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

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

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

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water

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

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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

Pace Analytical Services LLC

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ID No.:17873 Revision 27

Published Date: 01/24/2025

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Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

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

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

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

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

Document Type: Form

Pre-Qualtrax Document ID: 08-113

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4.0 DATA QUALITY ASSURANCE/QUALITY CONTROL MANAGEMENT

4.1 Field Quality Assurance/Quality Control Requirements.

Field personnel performed data quality control (QC) verification of field measurements. This process includes equipment calibration, reviewing calibration records, and duplicate readings to ensure data accuracy. Field measurements were documented in the field information form included as **Appendix A** and pH readings are summarized in **Table 1**.

All hand equipment used during the sampling event was cleaned with Alconox and distilled water. Disposable equipment was used for sample collection and processing as appropriate. Field personnel wore disposable nitrile sampling gloves during sampling activities. Sampling gloves were discarded following collection at each sample location and replaced before handling decontaminated equipment or work surfaces.

4.2 Analytical QA/QC Samples

All quality assurance and quality control (QA/QC), field duplicates and matrix spikes/matrix spike duplicates (MS/MSD) were collected in accordance with the Sampling Plan at a rate of 1 per 20 samples per day. A trip blank was included daily for volatile organic compounds (VOCs). A field blank was not collected because single-use disposable ladles were used to collect samples.

4.3 Data Evaluation

The reliability of the analytical data was evaluated to assess its suitability for use in off-Site surface water 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 was performed in accordance with the Sampling Plan. The data validation report is included as **Appendix B**. The laboratory analytical report is included as **Appendix C**.

4.4 References

SPS Technologies Sampling Plan, revised on March 5, 2025

