

# SPS TECHNOLOGIES - ABINGTON PA DAILY SURFACE WATER AND OUTFALL SAMPLING RESULTS REPORT FOR MARCH 10, 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 10, 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							
Toluene	mg/L	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	mg/L	ND	ND	ND	ND	ND	ND
<b>General Chemis</b>	try						
Chromium, Trivalent	mg/L	ND	ND	ND	ND	ND	ND
Chromium, Hexavalent	mg/L	0.005 J	0.008 J	0.005 J	0.003 J	0.006 J	0.005 J
Total Cyanide	mg/L	ND	ND	0.003 J	0.001 J	ND	0.001 J
Free Cyanide	mg/L	ND	ND	ND	ND	ND	ND
Oil & Grease	mg/L	ND	ND	ND	ND	ND	ND
<b>Total Metals</b>							
Total Chromium	mg/L	ND	ND	ND	ND	ND	ND
Total Nickel	mg/L	0.00174 J	0.00071 J	0.00107 J	0.00107 J	0.00223	0.00102 J
<b>Dissolved Metal</b>	S						
Dissolved Chromium	mg/L	0.0002 J	0.0003 J	0.0002 J	0.0002 J	ND	ND
Dissolved Nickel	mg/L	0.0018 J	0.0008 J	0.0014 J	0.0012 J	0.002 J	0.0013 J
<b>Total Hardness</b>							
Hardness	mg/L	252.2	212.8	210.7	212.6	220.1	180.9
Field Parameter	_						
рН	SU	7.08	7.20	7.28	7.28	6.67	6.28

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 10, 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 10, 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 10, 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**. 4



#### 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 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 on 1 per 20 samples per day. A trip blank was included daily for volatile organic compounds (VOCs).

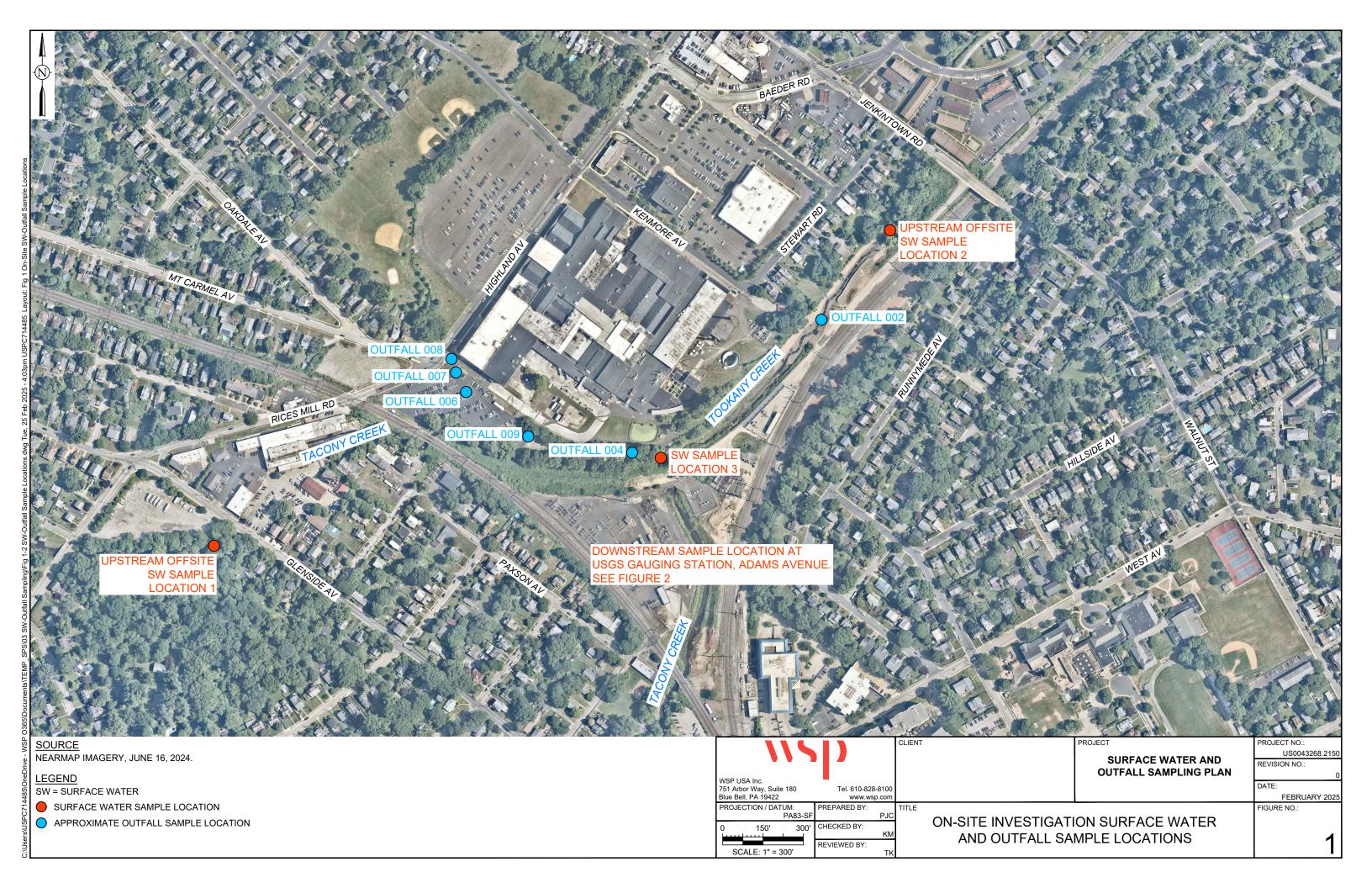
#### 4.3 Data Evaluation

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 are included as **Appendix C**.

#### 4.4 References

SPS Technologies Sampling Plan, revised on March 5, 2025





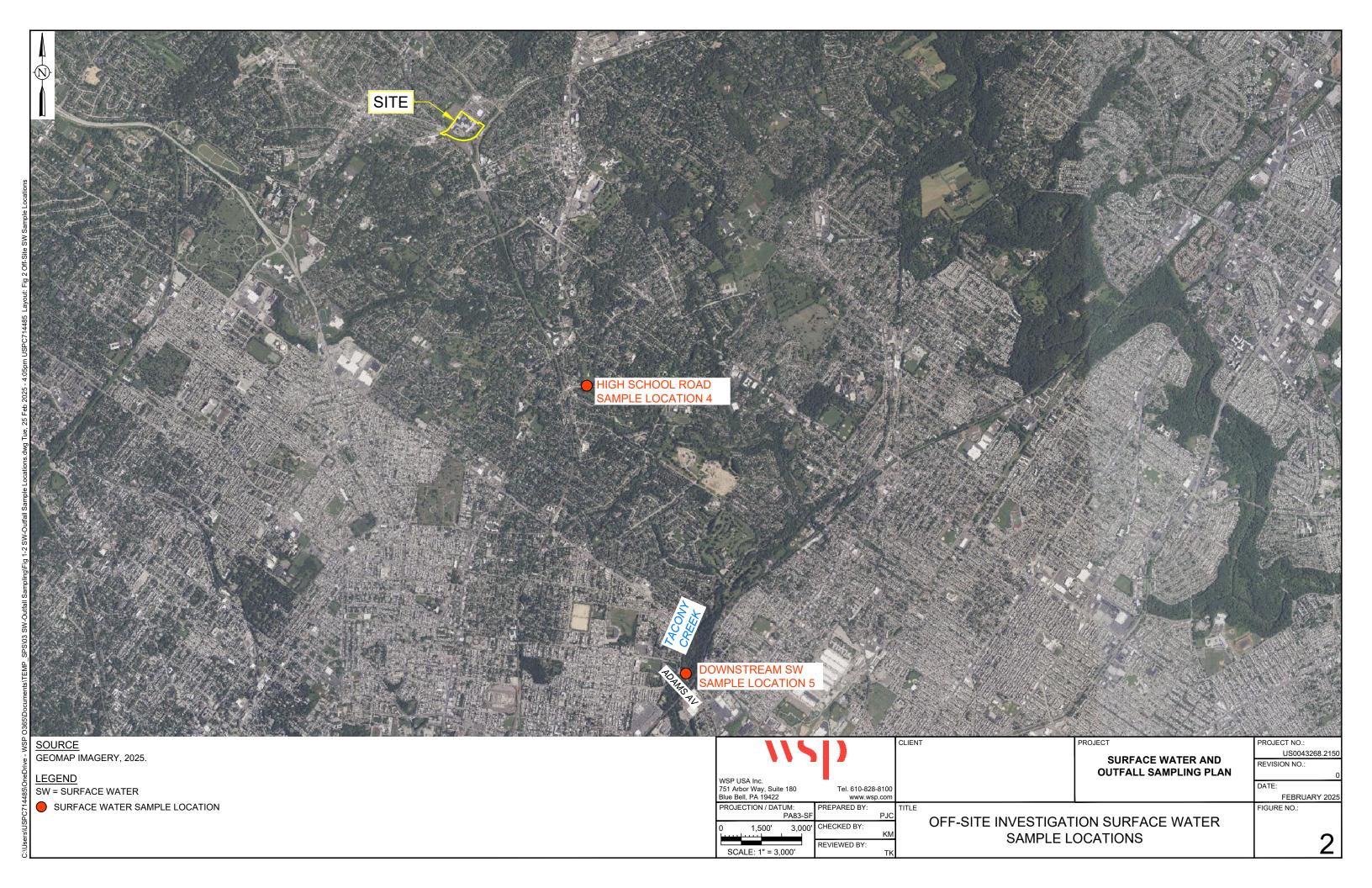


Table 1 March 2025

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

Sample I	Location		Offsite SW ocation 1	Sample		Offsite SW ocation 2	Sample		W Sample ocation 3			SW Sample ion 3 (Dup		•	ool Road Socation 4	ample		eam SW Sa ocation 5	imple
	Field Sample ID	S	W2-031025		S'	W1-031025		SI	N3-031025			DUP-03102	5	SV	V4-031025		SW	/5-031025	
	Lab Sample ID		2513343-02		L2	2513343-01		L2	513343-03		l	2513343-0	7	L2	2513343-4		L2	513343-5	
	Sampling Date		3/10/2025			3/10/2025		;	3/10/2025			3/10/2025		3	/10/2025		3	/10/2025	
	Matrix		Water			Water			Water			Water			Water			Water	
Parameter	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Volatile Organic Compound	ds																		
Toluene	mg/L	ND		0.0010	ND		0.0010	ND		0.0010	ND		0.0010	ND		0.0010	ND		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	0.005	J	0.010	0.008	J	0.010	0.005	J	0.010	0.003	J	0.010	0.006	J	0.010	0.005	J	0.010
Total Cyanide	mg/L	ND		0.005	ND		0.005	0.003	J	0.005	0.001	J	0.005	ND		0.005	0.001	J	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	ND		0.0010	ND		0.0010	ND		0.00100	ND		0.00100	ND		0.00100	ND		0.00100
Total Nickel	mg/L	0.00174	J	0.00200	0.00071	J	0.00200	0.00107	J	0.00200	0.00107	J	0.00200	0.00223		0.00200	0.00102	J	0.00200
Dissolved Metals																			
Dissolved Chromium	mg/L	0.0002	J	0.0010	0.0003	J	0.0010	0.0002	J	0.0010	0.0002	J	0.0010	ND		0.0010	ND		0.0010
Dissolved Nickel	mg/L	0.0018	J	0.0020	0.0008	J	0.0020	0.0014	J	0.0020	0.0012	J	0.0020	0.0020	J	0.0020	0.0013	J	0.0020
Total Hardness																			
Hardness	mg/L	252.2		0.5400	212.8		0.5400	210.7		0.5400	212.6		0.5400	220.1		0.5400	180.9		0.5400
Field Parameters																			
pH <sup>1</sup>	SU	7.08			7.20			7.28			7.28			6.67			6.28		
Notes:																	·		

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.

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

Qualifiers: J - Estimated Result

Created By: JHL 3/12/2025 Checked By: JA

Project Number: 658978

Date: _	3/10/225								65	897	78		
SURFACE WATER/OUTFALL SAMPLE F	TELD INFORMATION FORM						Projec	t Number: _		MALLON V			
	SP5												
Site: _ Location:		- DA					Additio	nal Notes		_	=107.		
Project Number:	Abhy	tor PA	1				SW3-	Collece	+ Du	10-0	31025		
Water Quality Meter:	Horin U-5	0	65	8978 103127	_	-	sws-	Cullu	of M	MADE	03/02	501	330
Meter Calibrated @:		2 0920	/N: U	103127			Collec						
Flow Meter:	OII WE &		I/N: 33	6387			PID .	0.0	0+ 0	11 loca	tions	310 Vision	
Sampling Date/Time:		SW41	a 1171	5 SW 16	2 1155		Control of the last of the las		W		THE PROPERTY		-
	SW2 @ 125	5 Sw3	@ (30	30					The state of	Company of the last			
Sampler(s):	J. Soulges	Atar	boar										
Sampling Device: Sample Characteristics:	0100-1	1 8 4	ole						TO THE STATE OF TH	THE REAL PROPERTY.			
sample Characteristics.	Clear No	oder	A constant					-		The state of the s			
Analytical Parameters:				A property consent	· Shirt Hall bearing				CONTRACTOR OF THE PARTY.	X			
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	Action to the second			y definition.									
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weather Conditions:	2011	01240	00 500	3 11001	10300								
						Min / Aller South Control			PRODUCTION OF THE PARTY OF THE				
	STATION DESCRIPTION				To all the N					E-JARP	To be a second	S TAKES	
SAMPLE / STATION	STATION DESCRIPTION (stream, lake river)	DATE	TIME	TOTAL DEPTH	SAMPLE DEPTH	WATER TEMP	SALINITY	рН	COND	ORP	TURBIDITY		
011215	0	MM/DD/YY	hrimin	inches	DEPIH	Celsius	ppt	SU	mS/cm	mV	NTU	DO mg/L	VELOCITY ft/sec
SW5-031025	Cleck	03/10/25	10:25	16.5	8.25	7.58	0.5	6.28	0.942	356	0.0	HIV.	
				10.		7 '0	0.,,	6.00	Service and	116		6.14	0.318
31 11 71 0	Sample Characteristics	.21. 1		-1					1				
GW4-031025	creek	03/10/25	11:20	5	25.5	7.97	0.5	6.67	1.05	310	0.0	7.19	6.178
DESCRIPTION OF STREET	Sample Characteristics:	White the second	24.	A commence of the	Committee of the last of the l		THE WALLS	0,0,				11	
SW1-031075	crech	03/10/15	11-6				. 11	- 10			- Sheek Sales	010	1302736
200/00/00		01140	1155	8	4	9.57	0.4	7.10	FP8.0	260	0.0	7.69	0.083
	Sample Characteristics	-1	Marrie San Control			AC 17.2/88		N. A. C.					By Profession
JWZ-031025	Creek	03/10/25	17:75	100	das	01101	0 (	7 00	1 16	0.10	0.0	101	0.157
	Sample Characteristics		10,0)	19.5	4.75	10.49	1.0	7.08	1.25	500	0.0	6.80	0.137
1 - 101-	1	00111						- 5		350			
5W3-031025	Creek	03/6/15	13:00	27	13.5	11.99	0.4	7.28	0.899	708	0.0	7.27	10.207
	Sample Characteristics	No. of the last of		L 1		11.11	1	-	- 1	0	Shall with the	1 *	

Sample Characteristics



#### **Data Validation Report**

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

**SDG No.:** L2513343

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

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

Chromium

Data Reviewer: Elizabeth Denly/TRC
Peer Reviewer: Kristen Morin/TRC
Date: March 11, 2025

#### **Samples Reviewed and Evaluation Summary**

6 Surface Water Samples: SW1-031025, SW2-031025, SW3-031025, SW4-031025,

SW5-031025, DUP-0310251

1 Field Blank: FIELD BLANK-031025

1 Trip Blank: TBSW-031025

The above-listed samples were collected on March 10, 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
- 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.

<sup>&</sup>lt;sup>1</sup>Field duplicate of SW3-031025



#### Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives. Qualifications applied to the data as a result of sampling error are discussed below.

 The positive results for total chromium were qualified as nondetect (U) in all surface water samples in this data set due to field blank contamination. These results can be used for project objectives as nondetects, which should not have an impact on the data usability.

Qualifications applied to the data as a result of analytical error are discussed below.

 Potential uncertainty exists for select metals, total cyanide, and hexavalent chromium 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 3/9/25 on the chain-of-custody. 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. With the exception of total chromium and trivalent chromium, target analytes were not detected in the field blank. Total chromium and trivalent chromium were detected in the field blank at concentrations of 0.00301 mg/L and 0.003 J mg/L, respectively. The positive results for total chromium in all surface water samples in this data set were qualified as nondetect (U) at the QL since the results were < the QL. Qualification of the data was not required for trivalent chromium since this analyte was not detected in the surface water samples in this data set.

#### MS/MSD Results

MS/MSD analyses were performed on sample SW5-031025 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 SW5-031025 for total cyanide, free cyanide, oil and grease, and hexavalent chromium. All criteria were met.

#### **LCS Results**

All criteria were met for all parameters.



#### **Field Duplicate Results**

Samples SW3-031025 and DUP-031025 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)	SW3-031025 (mg/L)	DUP-031025 (mg/L)	RPD (%) or AbsD (mg/L)	Validation Action
Total Nickel	0.002	0.00107 J	0.00107 J	AbsD = 0	
Hardness	0.54	210.7	212.6	RPD = 0.90	
Dissolved Chromium	0.001	0.0002 J	0.0002 J	AbsD = 0	Name all suitsuis accuse mast
Dissolved Nickel	0.002	0.0014 J	0.0012 J	AbsD = 0.0002	None; all criteria were met.
Total Cyanide	0.005	0.003 J	0.001 J	AbsD = 0.002	
Hexavalent Chromium	0.010	0.005 J	0.003 J	AbsD = 0.002	

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</li>

#### Sample Results and Reported Quantitation Limits

Select metals, total cyanide, and hexavalent chromium 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 results.

# **QUALIFIED FORM 1s**

## **VOLATILES**



L2513343

Project Name: SPS TECHNOLOGIES Lab Number:

\_ \_ \_ \_ \_

Project Number: 658978 Report Date: 03/11/25

SAMPLE RESULTS

Lab ID: L2513343-01 Date Collected: 03/10/25 11:55

Client ID: SW1-031025 Date Received: 03/10/25 Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 03/11/25 09:39

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	85		60-140	
Fluorobenzene	75		60-140	
4-Bromofluorobenzene	111		60-140	



L2513343

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

**Project Number:** Report Date: 658978 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-02 Date Collected: 03/10/25 12:25

Client ID: Date Received: 03/10/25 SW2-031025 Field Prep: Sample Location: Refer to COC JENKINTOWN, PA

Sample Depth:

Matrix: Water Analytical Method: 128,624.1 Analytical Date: 03/11/25 10:11

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	85		60-140	
Fluorobenzene	75		60-140	
4-Bromofluorobenzene	112		60-140	



L2513343

**Project Name:** SPS TECHNOLOGIES

**Project Number:** 658978

**SAMPLE RESULTS** 

Report Date: 03/11/25

Lab Number:

Lab ID: L2513343-03 Date Collected: 03/10/25 13:00

Client ID: Date Received: 03/10/25 SW3-031025 Field Prep: Sample Location: Refer to COC JENKINTOWN, PA

Sample Depth:

Matrix: Water Analytical Method: 128,624.1 Analytical Date: 03/11/25 10:43

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
					Δας	ntance

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Pentafluorobenzene	83		60-140	
Fluorobenzene	77		60-140	
4-Bromofluorobenzene	114		60-140	



**Project Name:** SPS TECHNOLOGIES **Lab Number:** L2513343

Project Number: 658978 Report Date: 03/11/25

SAMPLE RESULTS

Lab ID: L2513343-04 Date Collected: 03/10/25 11:20

Client ID: SW4-031025 Date Received: 03/10/25 Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 03/11/25 11:17

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	80		60-140	
Fluorobenzene	72		60-140	
4-Bromofluorobenzene	111		60-140	



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

SAMPLE RESULTS

Lab ID: L2513343-05 Date Collected: 03/10/25 10:25

Client ID: SW5-031025 Date Received: 03/10/25
Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 03/11/25 11:50

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	80		60-140	
Fluorobenzene	74		60-140	
4-Bromofluorobenzene	111		60-140	



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

SAMPLE RESULTS

Lab ID: L2513343-06 Date Collected: 03/09/25 00:00

Client ID: TBSW-031025 Date Received: 03/10/25
Sample Location: JENKINTOWN, PA Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 03/11/25 12:24

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	80		60-140	
Fluorobenzene	74		60-140	
4-Bromofluorobenzene	115		60-140	



**Project Name:** Lab Number: SPS TECHNOLOGIES L2513343

**Project Number:** Report Date: 658978 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-07 Date Collected: 03/10/25 00:00

Client ID: Date Received: 03/10/25 DUP-031025 Field Prep: Sample Location: Refer to COC JENKINTOWN, PA

Sample Depth:

Matrix: Water Analytical Method: 128,624.1 Analytical Date: 03/11/25 12:58

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	80		60-140	
Fluorobenzene	74		60-140	
4-Bromofluorobenzene	118		60-140	



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-08 Date Collected: 03/10/25 13:30

Client ID: FIELD BLANK-031025 Date Received: 03/10/25
Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 03/11/25 13:31

Parameter	Result Qualifier Units		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	80		60-140	
Fluorobenzene	73		60-140	
4-Bromofluorobenzene	112		60-140	



### **METALS**



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

 Lab ID:
 L2513343-01
 Date Collected:
 03/10/25 11:55

 Client ID:
 SW1-031025
 Date Received:
 03/10/25

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 - Mansfield Lab											
Chromium, Total	0.00026 N	D A	mg/l	0.00100	0.00017	1	03/11/25 08:14	1 03/11/25 12:11	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00071	J	mg/l	0.00200	0.00055	1	03/11/25 08:14	03/11/25 12:11	EPA 3005A	3,200.8	NTB
Total Hardness (by calculation) - Mansfield Lab											
Hardness	212.8		mg/l	0.5400	NA	1	03/11/25 08:14	03/11/25 12:11	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/11/25 12:11	NA	107,-	
Dissolved Metals - N	/lansfield l	_ab									
Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	03/11/25 09:22	2 03/11/25 13:24	EPA 3005A	3,200.8	NTB
Nickel, Dissolved	0.0008	J	mg/l	0.0020	0.0006	1	03/11/25 09:22	2 03/11/25 13:24	EPA 3005A	3,200.8	NTB



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

 Lab ID:
 L2513343-02
 Date Collected:
 03/10/25 12:25

 Client ID:
 SW2-031025
 Date Received:
 03/10/25

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 - Mansfield Lab											
Chromium, Total	0.00027 NI	D A	mg/l	0.00100	0.00017	1	03/11/25 08:14	03/11/25 12:15	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00174	J	mg/l	0.00200	0.00055	1	03/11/25 08:14	03/11/25 12:15	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfie	eld Lab								
Hardness	252.2		mg/l	0.5400	NA	1	03/11/25 08:14	03/11/25 12:15	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	l Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/11/25 12:15	NA	107,-	
Dissolved Metals - N	/lansfield L	_ab									
Chromium, Dissolved	0.0002	J	mg/l	0.0010	0.0002	1	03/11/25 09:22	03/11/25 13:29	EPA 3005A	3,200.8	NTB
Nickel, Dissolved	0.0018	J	mg/l	0.0020	0.0006	1	03/11/25 09:22	03/11/25 13:29	EPA 3005A	3,200.8	NTB



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

 Lab ID:
 L2513343-03
 Date Collected:
 03/10/25 13:00

 Client ID:
 SW3-031025
 Date Received:
 03/10/25

 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 - Mansfield Lab											
Chromium, Total	0.00026 NI	D A	mg/l	0.00100	0.00017	1	03/11/25 08:14	03/11/25 12:20	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00107	J	mg/l	0.00200	0.00055	1	03/11/25 08:14	03/11/25 12:20	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	ı) - Mansfie	eld Lab								
Hardness	210.7		mg/l	0.5400	NA	1	03/11/25 08:14	03/11/25 12:20	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/11/25 12:20	NA	107,-	
Dissolved Metals - M	/lansfield L	₋ab									
Chromium, Dissolved	0.0002	J	mg/l	0.0010	0.0002	1	03/11/25 09:22	03/11/25 13:33	EPA 3005A	3,200.8	NTB
Nickel, Dissolved	0.0014	J	mg/l	0.0020	0.0006	1	03/11/25 09:22	03/11/25 13:33	EPA 3005A	3,200.8	NTB



Refer to COC

Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

 Lab ID:
 L2513343-04
 Date Collected:
 03/10/25 11:20

 Client ID:
 SW4-031025
 Date Received:
 03/10/25

Sample Location: JENKINTOWN, PA Field Prep:

Sample Depth:

	<b>.</b>	o ""				Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	
Parameter	Result	Qualifier	Units	RL	MDL	1 40101	Перагеи	Allalyzeu	Wethou	Motiloa	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	0.00019 <b>N</b>	D A	mg/l	0.00100	0.00017	1	03/11/25 08:14	03/11/25 12:24	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00223		mg/l	0.00200	0.00055	1	03/11/25 08:14	03/11/25 12:24	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfie	eld Lab								
Hardness	220.1		mg/l	0.5400	NA	1	03/11/25 08:14	03/11/25 12:24	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/11/25 12:24	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/11/25 09:22	03/11/25 13:38	EPA 3005A	3,200.8	NTB
Nickel, Dissolved	0.0020	J	mg/l	0.0020	0.0006	1	03/11/25 09:22	03/11/25 13:38	EPA 3005A	3,200.8	NTB



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

 Lab ID:
 L2513343-05
 Date Collected:
 03/10/25 10:25

 Client ID:
 SW5-031025
 Date Received:
 03/10/25

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

Sample Depth:

Dozomator	Decult	Ovelifier	Unita	D.	MDI	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Amalust
Parameter	Result	Qualifier	Units	RL	MDL		Торагоа	7 iliaiy20a			Analyst
Total Metals - Mansfield Lab											
Chromium, Total	0.00023 NI	D A	mg/l	0.00100	0.00017	1	03/11/25 08:14	03/11/25 11:57	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00102	J	mg/l	0.00200	0.00055	1	03/11/25 08:14	03/11/25 11:57	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfie	eld Lab								
Hardness	180.9		mg/l	0.5400	NA	1	03/11/25 08:14	03/11/25 11:57	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	l Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/11/25 11:57	NA	107,-	
Dissolved Metals - N	/lansfield L	₋ab									
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/11/25 09:22	03/11/25 13:11	EPA 3005A	3,200.8	NTB
Nickel, Dissolved	0.0013	J	mg/l	0.0020	0.0006	1	03/11/25 09:22	03/11/25 13:11	EPA 3005A	3,200.8	NTB



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

 Lab ID:
 L2513343-07
 Date Collected:
 03/10/25 00:00

 Client ID:
 DUP-031025
 Date Received:
 03/10/25

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

Sample Depth:

_						Dilution Factor	Date Proposed	Date Analyzed	Prep Method	Analytical Method	
Parameter	Result	Qualifier	Units	RL	MDL	ractor	Prepared	Allalyzeu	Welliou	Wiethou	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	0.00030 NE	D 9	mg/l	0.00100	0.00017	1	03/11/25 08:14	03/11/25 12:29	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00107	J	mg/l	0.00200	0.00055	1	03/11/25 08:14	03/11/25 12:29	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	ı) - Mansfi	eld Lab								
Hardness	212.6		mg/l	0.5400	NA	1	03/11/25 08:14	03/11/25 12:29	EPA 3005A	3,200.8	NTB
General Chemistry -	- Mansfield	l Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/11/25 12:29	NA	107,-	
Dissolved Metals - N	Mansfield L	₋ab									
Chromium, Dissolved	0.0002	J	mg/l	0.0010	0.0002	1	03/11/25 09:22	03/11/25 13:42	EPA 3005A	3,200.8	NTB
Nickel, Dissolved	0.0012	J	mg/l	0.0020	0.0006	1	03/11/25 09:22	03/11/25 13:42	EPA 3005A	3,200.8	NTB



03/10/25 13:30

Date Collected:

Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-08

Client ID: FIELD BLANK-031025 Date Received: 03/10/25 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 - Mansi	field Lab										
Chromium, Total	0.00301		mg/l	0.00100	0.00017	1	03/11/25 08:14	03/11/25 12:43	EPA 3005A	3,200.8	NTB
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/11/25 08:14	03/11/25 12:43	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfie	eld Lab								
Hardness	ND		mg/l	0.5400	NA	1	03/11/25 08:14	03/11/25 12:43	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	d Lab									
Chromium, Trivalent	0.003	J	mg/l	0.010	0.003	1		03/11/25 12:43	NA	107,-	
Dissolved Metals - N	/lansfield l	Lab									
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/11/25 09:22	03/11/25 13:56	EPA 3005A	3,200.8	NTB
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	1	03/11/25 09:22	03/11/25 13:56	EPA 3005A	3,200.8	NTB



# INORGANICS & MISCELLANEOUS



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-01 Date Collected: 03/10/25 11:55

Client ID: SW1-031025 Date Received: 03/10/25 Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Resul	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough La	ab								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/11/25 07:50	03/11/25 11:28	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/11/25 06:37	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/11/25 08:08	03/11/25 11:51	140,1664B	TPR
Chromium, Hexavalent	0.008	J	mg/l	0.010	0.003	1	03/11/25 06:46	03/11/25 07:14	121,3500CR-B	DMO



L2513343

Project Name: SPS TECHNOLOGIES Lab Number:

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-02 Date Collected: 03/10/25 12:25

Client ID: SW2-031025 Date Received: 03/10/25 Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Resul	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough La	ab								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/11/25 07:50	03/11/25 11:29	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/11/25 06:37	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/11/25 08:08	03/11/25 11:53	140,1664B	TPR
Chromium, Hexavalent	0.005	J	mg/l	0.010	0.003	1	03/11/25 06:46	03/11/25 07:15	121,3500CR-B	DMO



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-03 Date Collected: 03/10/25 13:00

Client ID: SW3-031025 Date Received: 03/10/25 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 La	ab								
Cyanide, Total	0.003	J	mg/l	0.005	0.001	1	03/11/25 07:50	03/11/25 11:30	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/11/25 06:37	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/11/25 08:08	03/11/25 11:55	140,1664B	TPR
Chromium, Hexavalent	0.005	J	mg/l	0.010	0.003	1	03/11/25 06:46	03/11/25 07:16	121,3500CR-B	DMO



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-04 Date Collected: 03/10/25 11:20

Client ID: SW4-031025 Date Received: 03/10/25 Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Resul	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough L	ab								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/11/25 07:50	03/11/25 11:31	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/11/25 06:37	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/11/25 08:08	03/11/25 11:57	140,1664B	TPR
Chromium, Hexavalent	0.006	J	mg/l	0.010	0.003	1	03/11/25 06:46	03/11/25 07:17	121,3500CR-B	DMO



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-05 Date Collected: 03/10/25 10:25

Client ID: SW5-031025 Date Received: 03/10/25 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 La	ab								
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	03/11/25 07:50	03/11/25 11:34	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/11/25 06:37	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/11/25 08:08	03/11/25 09:28	140,1664B	TPR
Chromium, Hexavalent	0.005	J	mg/l	0.010	0.003	1	03/11/25 06:46	03/11/25 07:18	121,3500CR-B	DMO



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-07 Date Collected: 03/10/25 00:00

Client ID: DUP-031025 Date Received: 03/10/25 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	tborough La	ab								
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	03/11/25 07:50	03/11/25 11:38	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/11/25 06:37	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/11/25 08:08	03/11/25 12:08	140,1664B	TPR
Chromium, Hexavalent	0.003	J	mg/l	0.010	0.003	1	03/11/25 06:46	03/11/25 07:22	121,3500CR-B	DMO



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-08 Date Collected: 03/10/25 13:30

Client ID: FIELD BLANK-031025 Date Received: 03/10/25 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 Lab	)								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/11/25 07:50	03/11/25 11:39	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/11/25 06:37	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/11/25 08:08	03/11/25 12:11	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/11/25 06:46	03/11/25 07:23	121,3500CR-B	DMO





#### ANALYTICAL REPORT

Lab Number: L2513343

Client: TRC Environmental

1801 Market Street

**Suite 1300** 

Philadelphia, PA 19103

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

Project Name: SPS TECHNOLOGIES

Project Number: 658978 Report Date: 03/11/25

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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:
 L2513343

 Report Date:
 03/11/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2513343-01	SW1-031025	WATER	JENKINTOWN, PA	03/10/25 11:55	03/10/25
L2513343-02	SW2-031025	WATER	JENKINTOWN, PA	03/10/25 12:25	03/10/25
L2513343-03	SW3-031025	WATER	JENKINTOWN, PA	03/10/25 13:00	03/10/25
L2513343-04	SW4-031025	WATER	JENKINTOWN, PA	03/10/25 11:20	03/10/25
L2513343-05	SW5-031025	WATER	JENKINTOWN, PA	03/10/25 10:25	03/10/25
L2513343-06	TBSW-031025	WATER	JENKINTOWN, PA	03/09/25 00:00	03/10/25
L2513343-07	DUP-031025	WATER	JENKINTOWN, PA	03/10/25 00:00	03/10/25
L2513343-08	FIELD BLANK-031025	WATER	JENKINTOWN, PA	03/10/25 13:30	03/10/25



L2513343

Lab Number:

Project Name: SPS TECHNOLOGIES

Project Number: 658978 Report Date: 03/11/25

#### **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 Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

#### **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.

**Total Metals** 

L2513343-08: The Field Blank has a result for chromium present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

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: 03/11/25

Melissa Sturgis Melissa Sturgis

Pace

## **ORGANICS**



### **VOLATILES**



L2513343

03/11/25

Project Name: SPS TECHNOLOGIES Lab Number:

**Project Number:** 658978

SAMPLE RESULTS

Data Callastada 00/40/05 44.5

Report Date:

Lab ID: L2513343-01 Date Collected: 03/10/25 11:55

Client ID: SW1-031025 Date Received: 03/10/25 Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 03/11/25 09:39

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	85		60-140	
Fluorobenzene	75		60-140	
4-Bromofluorobenzene	111		60-140	



L2513343

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

**Project Number:** Report Date: 658978

03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-02 Date Collected: 03/10/25 12:25

Client ID: Date Received: 03/10/25 SW2-031025 Field Prep: Sample Location: Refer to COC JENKINTOWN, PA

Sample Depth:

Matrix: Water Analytical Method: 128,624.1 Analytical Date: 03/11/25 10:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
Volatile Organics by GC/MS -	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	85		60-140	
Fluorobenzene	75		60-140	
4-Bromofluorobenzene	112		60-140	



L2513343

03/10/25 13:00

**Project Name:** SPS TECHNOLOGIES

**Project Number:** 658978

**SAMPLE RESULTS** 

Lab Number:

Date Collected:

Report Date: 03/11/25

Lab ID: L2513343-03 Client ID: SW3-031025

Sample Location: JENKINTOWN, PA Date Received: 03/10/25 Field Prep: Refer to COC

Sample Depth:

Matrix: Water Analytical Method: 128,624.1 Analytical Date: 03/11/25 10:43

Parameter	Result	Qualifier	Units	RL	MDL	<b>Dilution Factor</b>	
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	
Company			o/ <b>5</b>	0 117		ptance	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Pentafluorobenzene	83		60-140	
Fluorobenzene	77		60-140	
4-Bromofluorobenzene	114		60-140	



**Project Name:** SPS TECHNOLOGIES **Lab Number:** L2513343

Project Number: 658978 Report Date: 03/11/25

SAMPLE RESULTS

Lab ID: L2513343-04 Date Collected: 03/10/25 11:20

Client ID: SW4-031025 Date Received: 03/10/25 Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 03/11/25 11:17

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	80		60-140	
Fluorobenzene	72		60-140	
4-Bromofluorobenzene	111		60-140	



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

SAMPLE RESULTS

Lab ID: L2513343-05 Date Collected: 03/10/25 10:25

Client ID: SW5-031025 Date Received: 03/10/25
Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 03/11/25 11:50

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	80		60-140	
Fluorobenzene	74		60-140	
4-Bromofluorobenzene	111		60-140	



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

SAMPLE RESULTS

Lab ID: L2513343-06 Date Collected: 03/09/25 00:00

Client ID: TBSW-031025 Date Received: 03/10/25
Sample Location: JENKINTOWN, PA Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 03/11/25 12:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough I	_ab					
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	80		60-140	
Fluorobenzene	74		60-140	
4-Bromofluorobenzene	115		60-140	



**Project Name:** Lab Number: SPS TECHNOLOGIES L2513343

**Project Number:** Report Date: 658978 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-07 Date Collected: 03/10/25 00:00

Client ID: Date Received: 03/10/25 DUP-031025 Field Prep: Sample Location: Refer to COC JENKINTOWN, PA

Sample Depth:

Matrix: Water Analytical Method: 128,624.1 Analytical Date: 03/11/25 12:58

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	80		60-140	
Fluorobenzene	74		60-140	
4-Bromofluorobenzene	118		60-140	



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

SAMPLE RESULTS

Lab ID: L2513343-08 Date Collected: 03/10/25 13:30

Client ID: FIELD BLANK-031025 Date Received: 03/10/25
Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 03/11/25 13:31

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			º/ Pocovory	Qualifi		ptance	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Pentafluorobenzene	80		60-140	
Fluorobenzene	73		60-140	
4-Bromofluorobenzene	112		60-140	



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

Method Blank Analysis Batch Quality Control

Analytical Method: 128,624.1 Analytical Date: 03/11/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL	
Volatile Organics by GC/MS - West	borough Lab	for sample	e(s): 01-08	Batch:	WG2039191-4	
Toluene	ND		mg/l	0.0010	0.00031	
2-Butanone	ND		mg/l	0.010	0.0010	

		Acceptance
Surrogate	%Recovery 0	Qualifier Criteria
Pentafluorobenzene	83	60-140
Fluorobenzene	75	60-140
4-Bromofluorobenzene	114	60-140



## Lab Control Sample Analysis Batch Quality Control

**Project Name:** SPS TECHNOLOGIES

Project Number: 658978

Lab Number:

L2513343

Report Date:

03/11/25

<u>Para</u>	ameter	LCS %Recovery	Qual	LCSE %Recov		Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Vola	atile Organics by GC/MS - Westborough	h Lab Associat	ed sample(s)	: 01-08	Batch:	WG2039	9191-3				
	Toluene	110		-			70-130	-		41	
:	2-Butanone	68		-			60-140	-		30	

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qu	Acceptance ual Criteria
Pentafluorobenzene	96		60-140
Fluorobenzene	90		60-140
4-Bromofluorobenzene	110		60-140



## Matrix Spike Analysis Batch Quality Control

**Project Name:** SPS TECHNOLOGIES

Project Number: 658978

Lab Number:

L2513343

Report Date:

03/11/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG2039191-5 WG2039191-6 QC Sample: L2513343-05 Client ID: SW5-031025												
Toluene	ND	0.00002	0.025	125		0.025	125		47-150	0		41
2-Butanone	ND	0.00005	0.032	64		0.036	72		60-140	12		30

	MS	MSD	Acceptance
Surrogate	% Recovery Qualifier	% Recovery Qualifier	Criteria
4-Bromofluorobenzene	113	114	60-140
Fluorobenzene	83	84	60-140
Pentafluorobenzene	87	85	60-140



#### **METALS**



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

 Lab ID:
 L2513343-01
 Date Collected:
 03/10/25 11:55

 Client ID:
 SW1-031025
 Date Received:
 03/10/25

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	0.00026	J	mg/l	0.00100	0.00017	1	03/11/25 08:14	03/11/25 12:11	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00071	J	mg/l	0.00200	0.00055	1	03/11/25 08:14	03/11/25 12:11	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfie	eld Lab								
Hardness	212.8		mg/l	0.5400	NA	1	03/11/25 08:14	03/11/25 12:11	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/11/25 12:11	NA	107,-	
Dissolved Metals - N	/lansfield l	Lab									
Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	03/11/25 09:22	03/11/25 13:24	EPA 3005A	3,200.8	NTB
Nickel, Dissolved	0.0008	J	mg/l	0.0020	0.0006	1	03/11/25 09:22	03/11/25 13:24	EPA 3005A	3,200.8	NTB



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

 Lab ID:
 L2513343-02
 Date Collected:
 03/10/25 12:25

 Client ID:
 SW2-031025
 Date Received:
 03/10/25

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 - Mansfield Lab												
Chromium, Total	0.00027	J	mg/l	0.00100	0.00017	1	03/11/25 08:14	03/11/25 12:15	EPA 3005A	3,200.8	NTB	
Nickel, Total	0.00174	J	mg/l	0.00200	0.00055	1	03/11/25 08:14	03/11/25 12:15	EPA 3005A	3,200.8	NTB	
Total Hardness (by	calculation	n) - Mansfie	eld Lab									
Hardness	252.2		mg/l	0.5400	NA	1	03/11/25 08:14	03/11/25 12:15	EPA 3005A	3,200.8	NTB	
General Chemistry -	Mansfield	d Lab										
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/11/25 12:15	NA	107,-		
Dissolved Metals - N	/lansfield l	Lab										
Chromium, Dissolved	0.0002	J	mg/l	0.0010	0.0002	1	03/11/25 09:22	03/11/25 13:29	EPA 3005A	3,200.8	NTB	
Nickel, Dissolved	0.0018	J	mg/l	0.0020	0.0006	1	03/11/25 09:22	03/11/25 13:29	EPA 3005A	3,200.8	NTB	



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

 Lab ID:
 L2513343-03
 Date Collected:
 03/10/25 13:00

 Client ID:
 SW3-031025
 Date Received:
 03/10/25

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
- arameter	resur	quannon	Omis		MDL		<u> </u>	<u> </u>			Allalyst
Total Metals - Mans	field Lab										
Chromium, Total	0.00026	J	mg/l	0.00100	0.00017	1	03/11/25 08:14	03/11/25 12:20	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00107	J	mg/l	0.00200	0.00055	1	03/11/25 08:14	03/11/25 12:20	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfie	eld Lab								
Hardness	210.7		mg/l	0.5400	NA	1	03/11/25 08:14	03/11/25 12:20	EPA 3005A	3,200.8	NTB
General Chemistry -	- Mansfield	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/11/25 12:20	NA	107,-	
Dissolved Metals - N	Mansfield	Lab									
Chromium, Dissolved	0.0002	J	mg/l	0.0010	0.0002	1	03/11/25 09:22	03/11/25 13:33	EPA 3005A	3,200.8	NTB
Nickel, Dissolved	0.0014	J	mg/l	0.0020	0.0006	1	03/11/25 09:22	03/11/25 13:33	EPA 3005A	3,200.8	NTB



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

 Lab ID:
 L2513343-04
 Date Collected:
 03/10/25 11:20

 Client ID:
 SW4-031025
 Date Received:
 03/10/25

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		
	rtoout	Qualifier	Omio		MDL		•	<u> </u>					
Total Metals - Mansfield Lab													
Chromium, Total	0.00019	J	mg/l	0.00100	0.00017	1	03/11/25 08:14	03/11/25 12:24	EPA 3005A	3,200.8	NTB		
Nickel, Total	0.00223		mg/l	0.00200	0.00055	1	03/11/25 08:14	03/11/25 12:24	EPA 3005A	3,200.8	NTB		
Total Hardness (by	calculation	n) - Mansfie	eld Lab										
Hardness	220.1		mg/l	0.5400	NA	1	03/11/25 08:14	03/11/25 12:24	EPA 3005A	3,200.8	NTB		
General Chemistry -	Mansfield	d Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/11/25 12:24	NA	107,-			
Dissolved Metals - N	/lansfield l	Lab											
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/11/25 09:22	03/11/25 13:38	EPA 3005A	3,200.8	NTB		
Nickel, Dissolved	0.0020	J	mg/l	0.0020	0.0006	1	03/11/25 09:22	03/11/25 13:38	EPA 3005A	3,200.8	NTB		



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

 Lab ID:
 L2513343-05
 Date Collected:
 03/10/25 10:25

 Client ID:
 SW5-031025
 Date Received:
 03/10/25

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>	<u> </u>			Allaryot		
Total Metals - Mansfield Lab													
Chromium, Total	0.00023	J	mg/l	0.00100	0.00017	1	03/11/25 08:14	03/11/25 11:57	EPA 3005A	3,200.8	NTB		
Nickel, Total	0.00102	J	mg/l	0.00200	0.00055	1	03/11/25 08:14	03/11/25 11:57	EPA 3005A	3,200.8	NTB		
Total Hardness (by	calculation	n) - Mansfi	eld Lab										
Hardness	180.9		mg/l	0.5400	NA	1	03/11/25 08:14	03/11/25 11:57	EPA 3005A	3,200.8	NTB		
General Chemistry -	Mansfield	d Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/11/25 11:57	NA	107,-			
Dissolved Metals - N	/lansfield l	Lab											
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/11/25 09:22	03/11/25 13:11	EPA 3005A	3,200.8	NTB		
Nickel, Dissolved	0.0013	J	mg/l	0.0020	0.0006	1	03/11/25 09:22	03/11/25 13:11	EPA 3005A	3,200.8	NTB		



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

 Lab ID:
 L2513343-07
 Date Collected:
 03/10/25 00:00

 Client ID:
 DUP-031025
 Date Received:
 03/10/25

 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 - Mansfield Lab												
Chromium, Total	0.00030	J	mg/l	0.00100	0.00017	1	03/11/25 08:14	03/11/25 12:29	EPA 3005A	3,200.8	NTB	
Nickel, Total	0.00107	J	mg/l	0.00200	0.00055	1	03/11/25 08:14	03/11/25 12:29	EPA 3005A	3,200.8	NTB	
Total Hardness (by	calculation	n) - Mansfie	eld Lab									
Hardness	212.6		mg/l	0.5400	NA	1	03/11/25 08:14	03/11/25 12:29	EPA 3005A	3,200.8	NTB	
General Chemistry -	Mansfield	d Lab										
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/11/25 12:29	NA	107,-		
Dissolved Metals - N	/lansfield l	Lab										
Chromium, Dissolved	0.0002	J	mg/l	0.0010	0.0002	1	03/11/25 09:22	03/11/25 13:42	EPA 3005A	3,200.8	NTB	
Nickel, Dissolved	0.0012	J	mg/l	0.0020	0.0006	1	03/11/25 09:22	03/11/25 13:42	EPA 3005A	3,200.8	NTB	



03/10/25 13:30

Date Collected:

 Project Name:
 SPS TECHNOLOGIES

 Lab Number:
 L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-08

Client ID: FIELD BLANK-031025 Date Received: 03/10/25 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	0.00301		mg/l	0.00100	0.00017	1	03/11/25 08:14	03/11/25 12:43	EPA 3005A	3,200.8	NTB
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/11/25 08:14	03/11/25 12:43	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculation	n) - Mansfie	eld Lab								
Hardness	ND		mg/l	0.5400	NA	1	03/11/25 08:14	03/11/25 12:43	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfield	d Lab									
Chromium, Trivalent	0.003	J	mg/l	0.010	0.003	1		03/11/25 12:43	NA	107,-	
Dissolved Metals - N	/lansfield l	_ab									
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/11/25 09:22	03/11/25 13:56	EPA 3005A	3,200.8	NTB
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	1	03/11/25 09:22	03/11/25 13:56	EPA 3005A	3,200.8	NTB



**Project Name:** SPS TECHNOLOGIES

658978

Project Number:

Lab Number:

L2513343

**Report Date:** 

03/11/25

#### **Method Blank Analysis Batch Quality Control**

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	l Analyst
Total Metals - Mansfie	ld Lab for sample(s):	01-05,07	-08 Bate	ch: WG	2038880-1				
Chromium, Total	ND	mg/l	0.00100	0.00017	7 1	03/11/25 08:14	03/11/25 11:48	3,200.8	NTB
Nickel, Total	ND	mg/l	0.00200	0.0005	5 1	03/11/25 08:14	03/11/25 11:48	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 cale	culation) - Mansfield L	ab for sa	imple(s):	01-05,0	07-08 Batc	ch: WG203888	30-1		
Hardness	ND	mg/l	0.5400	NA	1	03/11/25 08:14	03/11/25 11:48	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): 01-0	5,07-08	Batch:	WG20388	81-1			
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/11/25 09:22	03/11/25 13:02	3,200.8	NTB
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	1	03/11/25 09:22	03/11/25 13:02	3,200.8	NTB

**Prep Information** 

Digestion Method: EPA 3005A



## Lab Control Sample Analysis Batch Quality Control

**Project Name:** SPS TECHNOLOGIES

**Project Number:** 658978

Lab Number:

L2513343

Report Date:

03/11/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sai	mple(s): 01-05,07	'-08 Ba	tch: WG2038880-	2				
Chromium, Total	91		-		85-115	-		
Nickel, Total	94		-		85-115	-		
Total Hardness (by calculation) - Mansfield L	_ab Associated s	ample(s)	): 01-05,07-08 B	atch: WG2	2038880-2			
Hardness	95		-		85-115	-		
Dissolved Metals - Mansfield Lab Associate	d sample(s): 01-0	05,07-08	Batch: WG2038	8881-2				
Chromium, Dissolved	97		-		85-115	-		
Nickel, Dissolved	99		-		85-115	-		



## Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: 658978

Lab Number:

L2513343

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery	Recovery Qual Limits	RPD	RPD Qual Limits
Total Metals - Mansfield Lab As 031025	ssociated sam	ple(s): 01-0	05,07-08 Q	C Batch ID: W	/G2038880-3 WG2	2038880-4 QC	C Sample: L25133 <sup>∠</sup>	13-05	Client ID: SW5-
Chromium, Total	0.00023J	0.2	0.1726	86	0.1776	89	70-130	3	20
Nickel, Total	0.00102J	0.5	0.4412	88	0.4560	91	70-130	3	20
Total Hardness (by calculation)	) - Mansfield L	ab Associa	ted sample(s	s): 01-05,07-08	3 QC Batch ID: W	/G2038880-3	WG2038880-4 Q0	C Samp	le: L2513343-05
Client ID: SW5-031025 Hardness	180.9	66.2	230.0	74	241.8	92	70-130	5	20
							70-130 4 QC Sample: L25		
Hardness  Dissolved Metals - Mansfield La									



# INORGANICS & MISCELLANEOUS



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-01 Date Collected: 03/10/25 11:55

Client ID: SW1-031025 Date Received: 03/10/25 Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Resul	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough La	ab								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/11/25 07:50	03/11/25 11:28	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/11/25 06:37	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/11/25 08:08	03/11/25 11:51	140,1664B	TPR
Chromium, Hexavalent	0.008	J	mg/l	0.010	0.003	1	03/11/25 06:46	03/11/25 07:14	121,3500CR-B	DMO



L2513343

Project Name: SPS TECHNOLOGIES Lab Number:

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-02 Date Collected: 03/10/25 12:25

Client ID: SW2-031025 Date Received: 03/10/25 Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Resul	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough La	ab								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/11/25 07:50	03/11/25 11:29	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/11/25 06:37	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/11/25 08:08	03/11/25 11:53	140,1664B	TPR
Chromium, Hexavalent	0.005	J	mg/l	0.010	0.003	1	03/11/25 06:46	03/11/25 07:15	121,3500CR-B	DMO



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-03 Date Collected: 03/10/25 13:00

Client ID: SW3-031025 Date Received: 03/10/25 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 La	ab								
Cyanide, Total	0.003	J	mg/l	0.005	0.001	1	03/11/25 07:50	03/11/25 11:30	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/11/25 06:37	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/11/25 08:08	03/11/25 11:55	140,1664B	TPR
Chromium, Hexavalent	0.005	J	mg/l	0.010	0.003	1	03/11/25 06:46	03/11/25 07:16	121,3500CR-B	DMO



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-04 Date Collected: 03/10/25 11:20

Client ID: SW4-031025 Date Received: 03/10/25 Sample Location: JENKINTOWN, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Resul	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough L	ab								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/11/25 07:50	03/11/25 11:31	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/11/25 06:37	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/11/25 08:08	03/11/25 11:57	140,1664B	TPR
Chromium, Hexavalent	0.006	J	mg/l	0.010	0.003	1	03/11/25 06:46	03/11/25 07:17	121,3500CR-B	DMO



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-05 Date Collected: 03/10/25 10:25

Client ID: SW5-031025 Date Received: 03/10/25 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 La	ab								
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	03/11/25 07:50	03/11/25 11:34	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/11/25 06:37	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/11/25 08:08	03/11/25 09:28	140,1664B	TPR
Chromium, Hexavalent	0.005	J	mg/l	0.010	0.003	1	03/11/25 06:46	03/11/25 07:18	121,3500CR-B	DMO



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-07 Date Collected: 03/10/25 00:00

Client ID: DUP-031025 Date Received: 03/10/25 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	tborough La	ab								
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	03/11/25 07:50	03/11/25 11:38	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/11/25 06:37	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/11/25 08:08	03/11/25 12:08	140,1664B	TPR
Chromium, Hexavalent	0.003	J	mg/l	0.010	0.003	1	03/11/25 06:46	03/11/25 07:22	121,3500CR-B	DMO



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

**SAMPLE RESULTS** 

Lab ID: L2513343-08 Date Collected: 03/10/25 13:30

Client ID: FIELD BLANK-031025 Date Received: 03/10/25 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 Lab	)								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/11/25 07:50	03/11/25 11:39	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/11/25 06:37	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/11/25 08:08	03/11/25 12:11	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/11/25 06:46	03/11/25 07:23	121,3500CR-B	DMO



L2513343

Lab Number:

**Project Name:** SPS TECHNOLOGIES

Project Number: 658978 Report Date: 03/11/25

<b>Method E</b>	3lank	Analysis
Batch C	uality	Control

Parameter	Result Qu	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough Lab	for sam	ple(s): 0	1-05,07-08	Batch	n: WG203	38869-1			
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/11/25 06:37	121,4500CN-E(N	M) KAF
General Chemistry - We	stborough Lab	for sam	ple(s): 0	1-05,07-08	Batch	n: WG203	38870-1			
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/11/25 06:46	03/11/25 07:12	121,3500CR-B	DMO
General Chemistry - We	stborough Lab	for sam	ple(s): 0	1-05,07-08	Batch	n: WG203	38894-1			
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/11/25 07:50	03/11/25 11:25	121,4500CN-CE	JER
General Chemistry - We	stborough Lab	for sam	ple(s): 0	1-05,07-08	Batch	n: WG203	38953-1			
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/11/25 08:08	03/11/25 09:26	140,1664B	TPR



# Lab Control Sample Analysis Batch Quality Control

**Project Name:** SPS TECHNOLOGIES

**Project Number:** 658978

Lab Number:

L2513343

Report Date:

Parameter	LCS %Recovery	Qual %F	LCSD Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s):	: 01-05,07-08	Batch: WC	G2038869-2				
Cyanide, Free	105		-		90-110	-		
General Chemistry - Westborough Lab	Associated sample(s):	: 01-05,07-08	Batch: WC	S2038870-2				
Chromium, Hexavalent	104		-		85-115	-		20
General Chemistry - Westborough Lab	Associated sample(s):	: 01-05,07-08	Batch: WC	G2038894-2				
Cyanide, Total	102		-		90-110	-		
General Chemistry - Westborough Lab	Associated sample(s):	: 01-05,07-08	Batch: WC	G2038953-2				
Oil & Grease, Hem-Grav	98		-		78-114	-		18



## Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: 658978

Lab Number:

L2513343

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Reco		Qual	MSD Found		MSD ecovery	Qual	Recovery Limits	RPD		RPD Limits
General Chemistry - Westboro ID: SW5-031025	ugh Lab Asso	ciated samp	le(s): 01-05	,07-08	QC B	atch ID:	WG203886	69-4	WG2038	3869-5	QC Sample	: L25′	13343-05	Client
Cyanide, Free	ND	0.25	0.238	9	95		0.241		96		80-120	1		20
General Chemistry - Westboro ID: SW5-031025	ugh Lab Asso	ciated samp	le(s): 01-05	,07-08	QC B	atch ID:	WG20388	70-4	WG2038	3870-5	QC Sample	: L25′	13343-05	Client
Chromium, Hexavalent	0.005J	0.1	0.102	1	02		0.103		103		85-115	1		20
General Chemistry - Westboro ID: SW5-031025	ugh Lab Asso	ciated samp	le(s): 01-05	,07-08	QC B	atch ID:	WG203889	94-3	WG2038	3894-4	QC Sample	: L25′	13343-05	Client
Cyanide, Total	0.001J	0.2	0.214	1	07		0.206		103		90-110	4		30
General Chemistry - Westboro ID: SW5-031025	ugh Lab Asso	ciated samp	le(s): 01-05	,07-08	QC B	atch ID:	WG20389	53-4	WG2038	3953-5	QC Sample	: L25′	13343-05	Client
Oil & Grease, Hem-Grav	ND	39.2	36	9	92		37		95		78-114	3		18



# Lab Duplicate Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

**Project Number:** 658978

Lab Number:

L2513343

Report Date:

Parameter	Native Sample	Duplicate Sample	Units	RPD (	Qual RPD	Limits
General Chemistry - Westborough Lab Associated sai 031025	mple(s): 01-05,07-08	QC Batch ID: WG2038869-3	QC Sample:	L2513343	-05 Client ID:	SW5-
Cyanide, Free	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sai 031025	mple(s): 01-05,07-08	QC Batch ID: WG2038870-3	QC Sample:	L2513343	-05 Client ID:	SW5-
Chromium, Hexavalent	0.005J	0.004J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sai 031025	mple(s): 01-05,07-08	QC Batch ID: WG2038894-5	QC Sample:	L2513343	-05 Client ID:	SW5-
Cyanide, Total	0.001J	ND	mg/l	NC		30
General Chemistry - Westborough Lab Associated sai 031025	mple(s): 01-05,07-08	QC Batch ID: WG2038953-3	QC Sample:	L2513343	-05 Client ID:	SW5-
Oil & Grease, Hem-Grav	ND	ND	mg/l	NC		18



Project Name: SPS TECHNOLOGIES

Project Number: 658978

*Lab Number:* L2513343 **Report Date:** 03/11/25

## Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

## **Cooler Information**

Cooler	Custody Seal
Α	Absent
В	Absent
С	Absent
D	Absent

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2513343-01A	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-01B	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-01C	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-01D	Plastic 250ml HNO3 preserved	С	<2	<2	2.1	Υ	Absent		CR-2008S(180),NI-2008S(180)
L2513343-01E	Plastic 250ml HNO3 preserved	С	<2	<2	2.1	Υ	Absent		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2513343-01F	Plastic 250ml NaOH preserved	С	>12	>12	2.1	Υ	Absent		TCN-4500(14)
L2513343-01G	Plastic 500ml unpreserved	С	7	7	2.1	Υ	Absent		HEXCR-3500(1),FCN(1)
L2513343-01H	Amber 1L HCl preserved	С	NA		2.1	Υ	Absent		OG-1664(28)
L2513343-01J	Amber 1L HCl preserved	С	NA		2.1	Υ	Absent		OG-1664(28)
L2513343-02A	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-02B	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-02C	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-02D	Plastic 250ml HNO3 preserved	Α	<2	<2	2.4	Υ	Absent		CR-2008S(180),NI-2008S(180)
L2513343-02E	Plastic 250ml HNO3 preserved	Α	<2	<2	2.4	Y	Absent		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2513343-02F	Plastic 250ml NaOH preserved	Α	>12	>12	2.4	Υ	Absent		TCN-4500(14)
L2513343-02G	Plastic 500ml unpreserved	Α	7	7	2.4	Υ	Absent		HEXCR-3500(1),FCN(1)
L2513343-02H	Amber 1L HCI preserved	Α	NA		2.4	Υ	Absent		OG-1664(28)
L2513343-02J	Amber 1L HCl preserved	Α	NA		2.4	Υ	Absent		OG-1664(28)
L2513343-03A	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)



**Lab Number:** L2513343

Report Date: 03/11/25

Project Name: SPS TECHNOLOGIES

Project Number: 658978

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН		Pres	Seal	Date/Time	Analysis(*)
L2513343-03B	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-03C	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-03D	Plastic 250ml HNO3 preserved	В	<2	<2	2.0	Υ	Absent		CR-2008S(180),NI-2008S(180)
L2513343-03E	Plastic 250ml HNO3 preserved	В	<2	<2	2.0	Υ	Absent		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2513343-03F	Plastic 250ml NaOH preserved	В	>12	>12	2.0	Υ	Absent		TCN-4500(14)
L2513343-03G	Plastic 500ml unpreserved	В	7	7	2.0	Υ	Absent		HEXCR-3500(1),FCN(1)
L2513343-03H	Amber 1L HCl preserved	В	NA		2.0	Υ	Absent		OG-1664(28)
L2513343-03J	Amber 1L HCl preserved	В	NA		2.0	Υ	Absent		OG-1664(28)
L2513343-04A	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-04B	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-04C	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-04D	Plastic 250ml HNO3 preserved	Α	<2	<2	2.4	Υ	Absent		CR-2008S(180),NI-2008S(180)
L2513343-04E	Plastic 250ml HNO3 preserved	Α	<2	<2	2.4	Υ	Absent		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2513343-04F	Plastic 250ml NaOH preserved	Α	>12	>12	2.4	Υ	Absent		TCN-4500(14)
L2513343-04G	Plastic 500ml unpreserved	Α	7	7	2.4	Υ	Absent		HEXCR-3500(1),FCN(1)
L2513343-04H	Amber 1L HCl preserved	Α	NA		2.4	Υ	Absent		OG-1664(28)
L2513343-04J	Amber 1L HCI preserved	Α	NA		2.4	Υ	Absent		OG-1664(28)
L2513343-05A	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-05A1	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-05A2	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-05B	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-05B1	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-05B2	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-05C	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-05C1	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-05C2	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-05D	Plastic 250ml HNO3 preserved	С	<2	<2	2.1	Υ	Absent		CR-2008S(180),NI-2008S(180)



*Lab Number:* L2513343

Report Date: 03/11/25

**Project Name:** SPS TECHNOLOGIES

Project Number: 658978

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2513343-05D1	Plastic 250ml HNO3 preserved	С	<2	<2	2.1	Υ	Absent		CR-2008S(180),NI-2008S(180)
L2513343-05D2	Plastic 250ml HNO3 preserved	С	<2	<2	2.1	Υ	Absent		CR-2008S(180),NI-2008S(180)
L2513343-05E	Plastic 250ml HNO3 preserved	С	<2	<2	2.1	Υ	Absent		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2513343-05E1	Plastic 250ml HNO3 preserved	С	<2	<2	2.1	Υ	Absent		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2513343-05E2	Plastic 250ml HNO3 preserved	С	<2	<2	2.1	Υ	Absent		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2513343-05F	Plastic 250ml NaOH preserved	С	>12	>12	2.1	Υ	Absent		TCN-4500(14)
L2513343-05F1	Plastic 250ml NaOH preserved	С	>12	>12	2.1	Υ	Absent		TCN-4500(14)
L2513343-05F2	Plastic 250ml NaOH preserved	С	>12	>12	2.1	Υ	Absent		TCN-4500(14)
L2513343-05G	Plastic 500ml unpreserved	С	7	7	2.1	Υ	Absent		HEXCR-3500(1),FCN(1)
L2513343-05G1	Plastic 500ml unpreserved	С	7	7	2.1	Υ	Absent		HEXCR-3500(1),FCN(1)
L2513343-05G2	Plastic 500ml unpreserved	С	7	7	2.1	Υ	Absent		HEXCR-3500(1),FCN(1)
L2513343-05H	Amber 1L HCl preserved	С	NA		2.1	Υ	Absent		OG-1664(28)
L2513343-05H1	Amber 1L HCl preserved	С	NA		2.1	Υ	Absent		OG-1664(28)
L2513343-05H2	Amber 1L HCl preserved	С	NA		2.1	Υ	Absent		OG-1664(28)
L2513343-05J	Amber 1L HCl preserved	С	NA		2.1	Υ	Absent		OG-1664(28)
L2513343-05J1	Amber 1L HCl preserved	С	NA		2.1	Υ	Absent		OG-1664(28)
L2513343-05J2	Amber 1L HCl preserved	С	NA		2.1	Υ	Absent		OG-1664(28)
L2513343-06A	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-06B	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-07A	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-07B	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-07C	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-07D	Plastic 250ml HNO3 preserved	В	<2	<2	2.0	Υ	Absent		CR-2008S(180),NI-2008S(180)
L2513343-07E	Plastic 250ml HNO3 preserved	В	<2	<2	2.0	Υ	Absent		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2513343-07F	Plastic 250ml NaOH preserved	В	>12	>12	2.0	Υ	Absent		TCN-4500(14)
L2513343-07G	Plastic 500ml unpreserved	В	7	7	2.0	Υ	Absent		HEXCR-3500(1),FCN(1)
L2513343-07H	Amber 1L HCl preserved	В	NA		2.0	Υ	Absent		OG-1664(28)



*Lab Number:* L2513343

Report Date: 03/11/25

Project Number: 658978

Project Name:

SPS TECHNOLOGIES

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2513343-07J	Amber 1L HCl preserved	В	NA		2.0	Υ	Absent		OG-1664(28)
L2513343-08A	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-08B	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-08C	Vial Na2S2O3 preserved	D	NA		2.6	Υ	Absent		624.1-PPM(7)
L2513343-08D	Plastic 250ml HNO3 preserved	В	<2	<2	2.0	Υ	Absent		CR-2008S(180),NI-2008S(180)
L2513343-08E	Plastic 250ml HNO3 preserved	В	<2	<2	2.0	Υ	Absent		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2513343-08F	Plastic 250ml NaOH preserved	В	>12	>12	2.0	Υ	Absent		TCN-4500(14)
L2513343-08G	Plastic 500ml unpreserved	В	7	7	2.0	Υ	Absent		HEXCR-3500(1),FCN(1)
L2513343-08H	Amber 1L HCl preserved	В	NA		2.0	Υ	Absent		OG-1664(28)
L2513343-08J	Amber 1L HCl preserved	В	NA		2.0	Υ	Absent		OG-1664(28)



**Project Name:** Lab Number: SPS TECHNOLOGIES L2513343 **Project Number:** 658978

**Report Date:** 03/11/25

#### GLOSSARY

#### **Acronyms**

LOD

MS

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

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

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

of PAHs using Solid-Phase Microextraction (SPME).

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

**EPA** Environmental Protection Agency.

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

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

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

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

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

where applicable. (DoD report formats only.)

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

Organic TIC only requests.

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

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

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

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

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

associated field samples.

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

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

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

and then summing the resulting values.

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

Report Format: DU Report with 'J' Qualifiers



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#### **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, Benzo(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

### Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers



Project Name:SPS TECHNOLOGIESLab Number:L2513343Project Number:658978Report Date:03/11/25

#### Data Qualifiers

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

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

Report Format: DU Report with 'J' Qualifiers



Project Name: SPS TECHNOLOGIES Lab Number: L2513343

Project Number: 658978 Report Date: 03/11/25

#### **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

ID No.:**17873** Revision 27

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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,

 ${\sf EPA~180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B}$ 

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

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

Non-Potable Water

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

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

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

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

**Drinking Water** 

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

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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

**Pace Analytical Services LLC** 

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 27

Published Date: 01/24/2025

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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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Client: TRC Environ		Project #: 65897							-									-	
Address: 1617 John	F. Kennedy Blvd.	Project Manager	: Julie Actor	n				+	-			-							_
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These samples have t	seen Previously analyzed by Alpha	Due Date:	Time:	1-Day			NE E	Ö	SM3		E200.8		810					Lab to do Preservation	8
Other Project Spe	cific Requirements/Comment			Of the Store	C200.001 Av.	200	00C	000	200	8	E2(		8.00			8.0		☐ Lab to do	T
All VOAs in 1 Coole		D:220	ALI WLYD	115 81719	MARKED	and Grease E1664B	SM45	SM45	Chris	m E20	romium	200.8	kel E200.		2	ss E200.		(Please specify below)	E
EK 20mb	142					Greas	ranide	yanide	ed He	romin	ed Ch	ickel	ed Nic	E624.1	E624	Hardness		.80	
ALPHA Lab ID (Lab Use Only)	Sample ID	Colle	rction Time	Sample Matrix	Sampler's Initials	Oil and	Free Cyanide SM4500CN-E(M)	Total Cyanide SM4500CN-CE	Specialed Hex Shound SM3500-CrB	Test Chromium E200.8	Dissolved Chromium	Total Nickel E200.8	Dissolved Nickel	MEK E	Toluene E624.1	Total H		Sample Specific Comments	
334301	sw1-931025	3118125	1155	sw	75				×		$\boxtimes$								9
02	SW2 - 031025	3114125	1225	SW	22		$\boxtimes$			$\boxtimes$	$\boxtimes$	$\boxtimes$			$\boxtimes$	$\boxtimes$			0
03	sw3 - 63/615	3110125	1300	sw	75		M				$\boxtimes$	$\boxtimes$		$\boxtimes$		$\boxtimes$			9
09	SW4-031025	3114125	1120	sw	22		$\boxtimes$				$\boxtimes$	$\boxtimes$		$\boxtimes$	$\boxtimes$	$\boxtimes$			9
05	SW5 - 631025	3116125	1025	sw	-35	Ø	M				$\boxtimes$	$\boxtimes$			×	M		Bazera WEIGHT	2
06	TBSW- 031025	319125	_	w															2
9	049-431425	3110/25	0000	SW	22	N	X	K	K	X	X	X	N	X	N	X			0
80	650150 - Hall 6117	3110125	1330	M	35	X	X	X	X	X	X	X	X	X	X	X			0
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				0	Container Type	Α	Р	P	P	Р	Р	P	P	V	٧		*	Diames prost stone . In	milyl-
					Preservative	В	A	E	1	C	Α		C K	Н	н		*	Please print clearly, leg and completely. Samp not be logged in and	
Upoch Soulges ATEC				7/16/25 14(5 Mul) Pa (							a CE	Date/Time				turnaround time clock will r start until any ambiguities a resolved. All samples			
POWM NO: \$1-\$1(I-NJ) (NV: 5-JAN-12)		My	MA	× PAC	e .	3.1	21	83	500	Inth	onu	i Co	een	MAR	30	2025	200	submitted are subject Alpha's Payment Term	
Page 51 of 51		- A	nthong	Green	31	his	Ci	395	2	L	Ling	-6/	A-	hough of the bids	3/4	250	an	2	