

## SPS TECHNOLOGIES - ABINGTON PA OUTFALL SAMPLING RESULTS REPORT FOR MAY 4, 2025

**PREPARED FOR:** SPS TECHNOLOGIES

**PREPARED BY:** TRC Environmental Corporation, Inc 1617 JFK Boulevard, Suite 510 Philadelphia, PA 19103

MAY 8, 2025

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#### 1.0 EXECUTIVE SUMMARY

TRC Environmental Corporation (TRC), on behalf of SPS Technologies Abington PA (SPS), collected one outfall sample in accordance with TRC Surface Water and Outfall Sampling Plan revised on March 25, 2025 (Sampling Plan). The sample was collected on May 4, 2025 and submitted to a Pennsylvania-certified analytical laboratory for analysis. The sample location is shown in the attached **Figure 1** and the results of the analysis are shown below. Please note that surface water is sampled once weekly and was not sampled during this event. No sheet flow sample was collected due to lack of flow.

Outfall	Outfall 006	Outfall 006 (Duplicate)		
Parameter	Parameter Units			
Volatile Organic Compounds				
Toluene	mg/L	ND	ND	
2-Butanone (MEK)	mg/L	ND	ND	
General Chemistry				
Chromium, Trivalent	mg/L	ND	ND	
Chromium, Hexavalent	mg/L	ND	ND	
Total Cyanide	mg/L	ND	ND	
Free Cyanide	mg/L	ND	ND	
Oil & Grease	mg/L	ND	ND	
Total Suspended Solids	mg/L	ND	ND	
Nitrate/Nitrite as Nitrogen	mg/L	3.3	3.6	
Chemical Oxygen Demand	mg/L	26 J+	ND	
Total Metals				
Total Aluminum	mg/L	0.04902 J	0.03127 J	
Total Chromium	mg/L	ND	ND	
Total Copper	mg/L	0.00579	0.00581	
Total Iron	mg/L	0.1678 J	0.1037 J	
Total Lead	mg/L	0.00089 J	0.00054 J	
Total Nickel	mg/L	0.00228	0.00157 J	
Total Zinc	mg/L	0.01773	0.01864	
Dissolved Metals				
Dissolved Chromium	mg/L	0.0003 J	0.0002 J	
Dissolved Nickel	mg/L	0.0025	0.0015 J	
Total Hardness				
Hardness	mg/L	191.1	189.8	
Field Parameters				
рН	SU	6.31	6.31	



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 report, including Quality Assurance/Quality Control (QA/QC) are attached.



### 2.0 INTRODUCTION

This Outfall Sampling Results Report for May 4, 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 outfall sampling results from May 4, 2025, which were collected in accordance with the TRC Surface Water and Outfall Sampling Plan revised on March 25, 2025 and approved by the PADEP on April 2, 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 STORMWATER INVESTIGATION

TRC collected one stormwater sample from one permitted outfall as a result of the qualifying precipitation event on May 4, 2025.

#### 3.1 Outfall Sampling Methodology

TRC collected the outfall sample in accordance with the Sampling Plan. Field data collected from the location 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)

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 Outfall 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 Outfall Sampling Results

A stormwater sample was collected from one permitted outfall location in accordance with Sampling Plan for the following parameters:

- Chemical Oxygen Demand
- Total Suspended Solids
- Nitrate-Nitrite as N
- Hexavalent Chromium (calculated for Trivalent Chromium)
- Total Aluminum
- Total Copper
- Total Iron
- Total Lead
- Total Zinc
- Oil & Grease
- Free Cyanide
- Total Cyanide
- Total Nickel
- Dissolved Nickel
- Total Chromium
- Dissolved Chromium

SPS Technologies Outfall Sampling Results Report for May 4, 2025



- Methyl ethyl ketone (2-Butanone)
- Toluene
- Hardness

The validated analytical results are summarized in **Table 1**. The sampling location is shown on **Figure 1**.



#### 4.0 DATA QUALITY ASSURANCE/QUALITY CONTROL MANAGEMENT

### 4.1 Field Quality Assurance/Quality Control Requirements.

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

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

#### 4.2 Analytical QA/QC Samples

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

#### 4.3 Data Evaluation

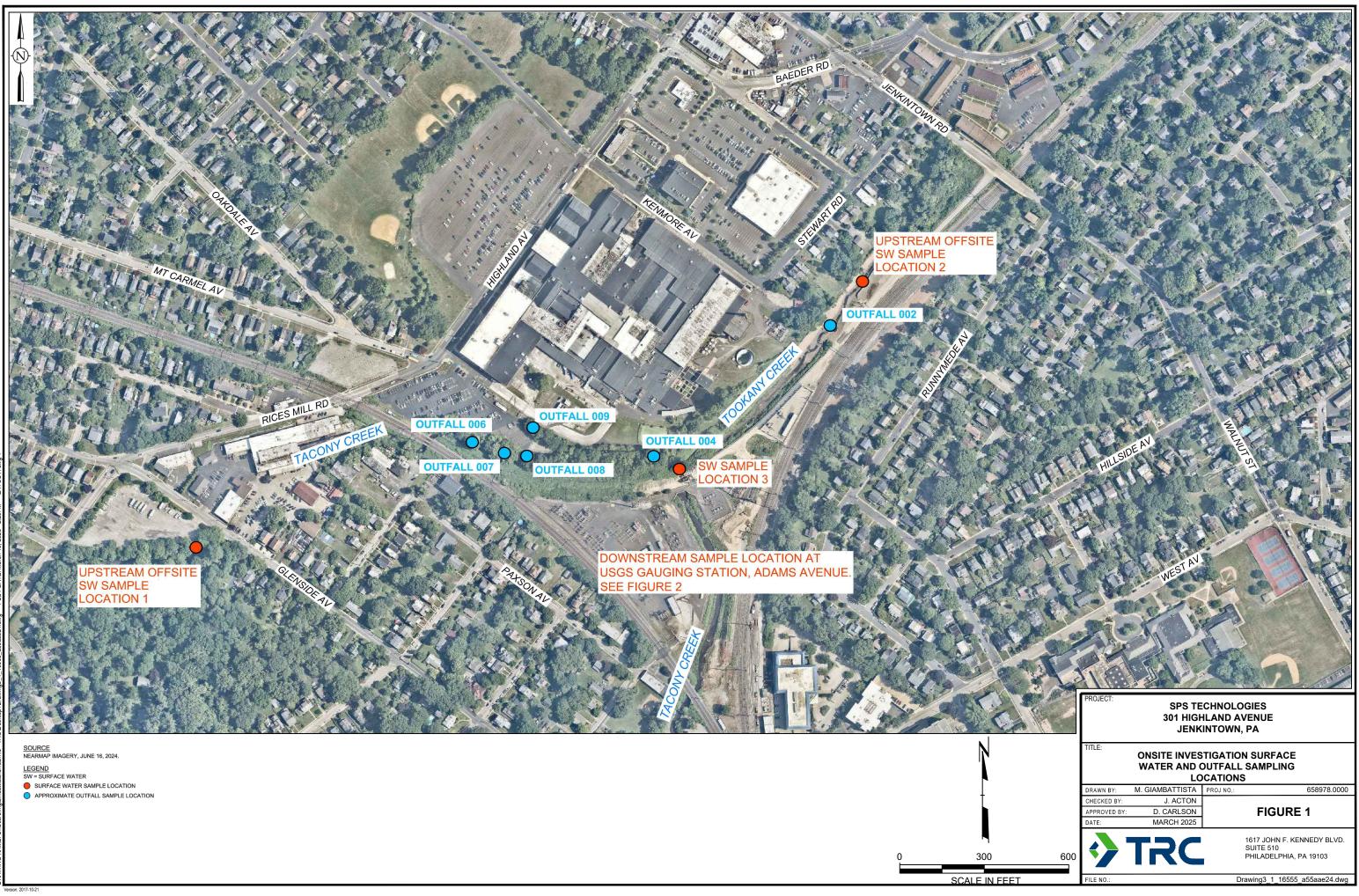
The reliability of the analytical data was evaluated to assess its suitability for use in off-Site surface water monitoring. In particular, the data's precision, accuracy, and sensitivity were evaluated based on field sampling documentation, adherence to sample holding times, and analysis of the QC samples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

#### 4.4 References

• SPS Technologies Surface Water and Outfall Sampling Plan, revised on March 25, 2025



Figure



Table

#### May 2025

#### Table 1

Surface Water Analytical Results Outfall and Sheet Flow Sampling Results Report SPS Technologies Jenkintown, Pennsylvania

Outfall 006 Outfall 006 (Duplicate) Sample Location Field Sample ID OF006-050425 DUP-050425 Lab Sample ID L2527452-01 L2527452-02 Sampling Date 5/04/2025 5/04/2025 Matrix Water Water MDL Result MDL Units Result RL RL Parameter Q Ω Volatile Organic Compounds ND 0.0010 0.00031 ND 0.0010 0.00031 Toluene mg/L 2-Butanone (MEK) 0.0010 0.010 0.0010 mg/L ND 0.010 ND General Chemistry Chromium, Trivalent mg/L ND 0.010 0.003 ND 0.010 0.003 0.003 0.010 Chromium, Hexavalent mg/L ND 0.010 ND 0.003 Total Cyanide mg/L ND 0.005 0.001 ND 0.005 0.001 Free Cyanide mg/L ND 0.010 0.003 ND 0.010 0.003 ND Oil & Grease ND 4.0 mg/L 4.0 4.0 4.0 Total Suspended Solids mg/L ND 5.0 NA ND 5.0 NA Nitrate/Nitrite as Nitrogen 3.3 0.10 0.046 0.10 0.046 mg/L 3.6 Chemical Oxygen Demand 26 J+ ND 6.0 mg/L 20 6.0 20 Total Metals Total Aluminum 0.04902 0.01000 0.00327 0.03127 0.01000 0.00327 mg/L J J Total Chromium ND 0.00100 0.00017 ND 0.00100 0.00017 mg/L Total Copper mg/L 0.00579 0.00100 0.00038 0.00581 0.00100 0.00038 Total Iron 0.1678 0.05000 0.01910 0.1037 0.05000 0.01910 mg/L J J Total Lead 0.00089 0.00100 0.00034 0.00054 0.00100 0.00034 J J mg/L Total Nickel mg/L 0.00228 0.00200 0.00055 0.00157 J 0.00200 0.00055 Total Zinc 0.01773 0.00500 0.00341 0.01864 0.00500 0.00341 mg/L **Dissolved Metals** 0.0002 Dissolved Chromium mg/L 0.0003 0.0010 0.0002 0.0002 J 0.0010 Dissolved Nickel mg/L 0.0025 0.0020 0.0006 0.0015 J 0.0020 0.0006 **Total Hardness** 0.5400 Hardness mg/L 191.1 NA 189.8 0.5400 NA Field Parameters SU 6.31 6.31  $pH^1$ 

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:

MDL: Method Detection Limit

mg/L: milligrams per liter

ND: Non-Detect

NA: Not Applicable

Q: Qualifier

RL: Reporting Limit

SU: Standard Units

#### Qualifiers: Qualifiers:

J: Estimated Result

J+: Estimated Result, Potential High Bias

Created By: JA 5/7/25 Checked By: MO 5/8/25

Appendix A

Date: 5/4/65

SURFACE WATER/OUTFALL SAMPLE FIELD INFORMATION FORM

Site:	SPS TECHNONOGICS
Location:	Jakinform, PA
Project Number:	158978
Water Quality Meter:	10-51- V-5000 S/N:
Meter Calibrated @:	6145 5/4/25
Flow Meter:	S/N:
Sampling Date/Time:	0F006 @ 0915
Sampling Device:	J-LANSEN CAST A. D'DUMCHI MUSCOPAN DEPPN POIL N/ CUP CILCY NO ONN

Analytical Parameters: SLC Chim of CVSHSIV

Project Number: 658978

Additional Notes: UE002-CWIL NOT CUIRCH SUMPLE INC to ru FUN 10 FUOY - Could not collect scapic he 0F006 - (aller ms/psp ont por-05-425 (0930)

Weather Conditions: DVerCSY, 70°F, VINJ 1.22 mplt, Light-roder run @ 8:30 enting count 9:00 pm

SAMPLE / STATION	N STATION DESCRIPTION				SAMPLE	WATER TEMP	SALINITY	рН	COND	ORP	TURBIDITY	DO	VELOCITY
	(stream, lake river)	DATE MM/DD/YY	TIME hr:min	TOTAL DEPTH inches	DEPTH	Celsius	ppt	SU	mS/cm	mV	NTU	mg/L	ft/sec
012006	sw outfull		0915	Z	l" -				0.626		1-4	6-90	6-427
	Sample Characteristics :		1	· · · · · ·		1		1	1	<del></del>	1	<del></del>	
	Sample Characteristics :												
	Sample Characteristics :			<u> </u>						<u> </u>			1
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Appendix B



#### Data Validation Report

Site:	SPS Technologies, Outfall Sampling							
Laboratory:	Pace Analytical, Westborough and Mansfield, MA							
SDG No.:	L2527452 (Revised 05/07/2025)							
Parameters:	Select Volatile Organic Compounds (VOCs), Select Metals, Hardness, Total Suspended Solids (TSS), Total Cyanide, Free Cyanide, Nitrate/Nitrite, Chemical Oxygen Demand (COD), Oil & Grease, Hexavalent Chromium, Trivalent Chromium							
Data Reviewer:	Jessica Esser/TRC							
Peer Reviewer:	Nancy Bergstrom/TRC							
Date:	May 7, 2025							

#### Samples Reviewed and Evaluation Summary

2 Outfall Samples: OF006-050425, DUP-050425<sup>1</sup>

1 Trip Blank: TRIP BLANK-050425

<sup>1</sup>Field duplicate of OF006-050425

The above-listed samples were collected on May 4, 2025 and were analyzed for one or more of the following parameters.

- Select VOCs (toluene, 2-butanone) using EPA Method 624.1
- Select total metals (aluminum, chromium, copper, iron, lead, nickel, zinc) using EPA Method 200.8
- Select dissolved metals (chromium, nickel) using EPA Method 200.8
- Total hardness (by calculation) using EPA Method 200.8
- TSS using Standard Methods (SM) 2540D
- Total cyanide using SM 4500 CN-CE
- Free cyanide using SM 4500 CN-E (M)
- Nitrate/nitrite using EPA Method 353.2
- COD using EPA Method 410.4
- Oil and grease using EPA Method 1664B
- Hexavalent chromium using SM 3500 CR-B
- Trivalent chromium by calculation

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

The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
  - Blanks

\*

- Surrogate Recoveries (VOCs only)
  - Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results



- \* Laboratory Duplicate Results
  - Laboratory Control Sample (LCS) Results
  - Field Duplicate Results
  - Sample Results and Reported Quantitation Limits (QLs)
- \* All criteria were met.

#### **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 aluminum and total iron in both outfall samples in this data set were qualified as estimated (J) due to field duplicate variability. These results can be used for project objectives as estimated values, which may have a minor 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 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.
- The positive result for COD was qualified as estimated with a potential high bias (J+) in sample OF006-050425 due to method blank contamination. This result can be used for project objectives as an estimated value, which may have a minor impact on the data usability.
- The positive result for COD was qualified as nondetect (U) in sample DUP-050425 due to method blank contamination. This result can be used for project objectives as a nondetect, which should not have an impact on the data usability.

#### Data Completeness

The revised data package was a complete Level 2 data package with the following exceptions/notes.

- The date of collection for the trip blank was listed as 4/25/25 on the chain-of-custody (COC). For purposes of this assessment, it was assumed the date of collection was the same as the associated samples.
- The laboratory performed MS/laboratory duplicate analyses on sample OF006-050425 for nitrate/nitrite and COD rather than MS/MSD analyses as requested on the COC.
- MS/MSD analyses were not performed on sample OF006-050425 for TSS as requested on the COC; a laboratory duplicate analysis was performed instead due to the nature of the analysis.

There is no impact on the data usability due to these issues and no validation actions were taken on this basis.



#### Holding Times and Sample Preservation

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

#### <u>Blanks</u>

Target VOCs were not detected in the trip blank. A field blank was not submitted with the data set. With the exception of COD, target analytes were not detected in the associated laboratory method blanks. COD was detected in the laboratory method blank associated with all samples in this data set at a concentration of 11 mg/L. The positive result for COD in sample OF006-050425 was qualified as estimated with a potential high bias (J+) since the result was  $\geq$  the QL but < 10x the amount detected in the method blank. The positive result for COD in sample DUP-050425 was qualified as nondetect (U) at the QL since the result was < the QL.

#### Surrogate Recoveries (VOCs only)

All criteria were met.

#### MS/MSD Results

MS/MSD analyses were performed on sample OF006-050425 for VOCs, total and dissolved metals, hardness, total cyanide, free cyanide, oil and grease, and hexavalent chromium. MS analyses were performed on sample OF006-050425 for nitrate/nitrite and COD. With the exception of 2-butanone, all criteria were met. The %Rs for 2-butanone in the MS/MSD (148%/148%) performed on sample OF006-050425 were above the laboratory acceptance criteria (60-140%). No qualification was required on this basis since 2-butanone was nondetect (ND) in sample OF006-050425.

#### Laboratory Duplicate Results

Laboratory duplicate analyses were performed on sample OF006-050425 for TSS, total cyanide, free cyanide, nitrate/nitrite, COD, oil and grease, and hexavalent chromium. All criteria were met.

#### LCS Results

All criteria were met for all parameters.

#### **Field Duplicate Results**

Samples OF006-050425 and DUP-050425 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. The QL was used in the calculation of the AbsD for ND results. With the exceptions listed in the table below, all criteria were met.

Analyte	QLs (mg/L)	OF006- 050425 (mg/L)	DUP- 050425 (mg/L)	RPD (%) or AbsD (mg/L)	Validation Action
Total Aluminum	0.010	0.04902	0.03127	AbsD = 0.01775 (≥QL)	The positive results for total aluminum and total iron in both outfall samples in this
Total Iron	0.050	0.1678	0.1037	AbsD = 0.0641 (≥QL)	data set were qualified as estimated (J).



Analyte	QLs (mg/L)	OF006- 050425 (mg/L)	DUP- 050425 (mg/L)	RPD (%) or AbsD (mg/L)	Validation Action
Total Copper	0.001	0.00579	0.00581	RPD = 0.3	
Total Lead	0.001	0.00089 J	0.00054 J	AbsD = 0.00035	
Total Nickel	0.002	0.00228	0.00157 J	AbsD = 0.00071	
Total Zinc	0.005	0.01773	0.01864	AbsD = 0.00091	
Hardness	0.54	191.1	189.8	RPD = 0.7	None; all criteria were met.
Dissolved Chromium	0.001	0.0003 J	0.0002 J	AbsD = 0.0001	
Dissolved Nickel	0.002	0.0025	0.0015 J	AbsD = 0.001	
Nitrate/Nitrite	0.10	3.3	3.6	RPD = 8.7	
COD	20	26	ND	AbsD = 6	

Field duplicate criteria are as follows:

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

#### Sample Results and Reported Quantitation Limits

Select metals and COD 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. Note that positive result for COD in sample DUP-050425 was subsequently qualified as nondetect (U) due to method blank contamination as noted above.

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 < 5x the QL, then the AbsD should be  $\leq$  2x the QL. These criteria were met for all samples.

# **QUALIFIED FORM 1s**

## VOLATILES



			Serial_No	0:05072513:47
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2527452
Project Number:	658978		Report Date:	05/07/25
		SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2527452-01 OF006-050425 JENKINTOWN, PA		Date Collected: Date Received: Field Prep:	05/04/25 09:15 05/04/25 Refer to COC
Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst:	Water 128,624.1 05/05/25 17:52 GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	tborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			98		6	60-140
Fluorobenzene			105		6	60-140
4-Bromofluorobenzene			82		6	60-140

Pace

			Serial_No	0:05072513:47
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2527452
Project Number:	658978		Report Date:	05/07/25
		SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2527452-02 DUP-050425 JENKINTOWN, PA		Date Collected: Date Received: Field Prep:	05/04/25 09:30 05/04/25 Refer to COC
Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst:	Water 128,624.1 05/05/25 18:27 GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes		quanter	Units			
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			97		6	60-140
Fluorobenzene			104		6	60-140
4-Bromofluorobenzene			82		6	60-140



			Serial_N	0:05072513:47
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2527452
Project Number:	658978		Report Date:	05/07/25
		SAMPLE RESULTS		
Lab ID:	L2527452-03		Date Collected:	04/25/25 00:00
Client ID:	TRIP BLANK-050425		Date Received:	05/04/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Refer to COC
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	05/05/25 17:18			
Analyst:	GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	tborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			96		6	60-140
Fluorobenzene			104		6	60-140
4-Bromofluorobenzene			83		6	60-140



### METALS



Serial\_No:05072513:47

Project Name:	SPS TECHNOLOGIES		Lab Number:	L2527452
Project Number:	658978		Report Date:	05/07/25
		SAMPLE RESULTS		
Lab ID:	L2527452-01		Date Collected:	05/04/25 09:15
Client ID:	OF006-050425		Date Received:	05/04/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Refer to COC

### Sample Depth:

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Ma	nsfield Lab										
Aluminum, Total	0.04902	J	mg/l	0.01000	0.00327	1	05/05/25 13:33	05/06/25 08:01	EPA 3005A	3,200.8	BLR
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/05/25 13:33	05/06/25 08:01	EPA 3005A	3,200.8	BLR
Copper, Total	0.00579		mg/l	0.00100	0.00038	1	05/05/25 13:33	05/06/25 08:01	EPA 3005A	3,200.8	BLR
Iron, Total	0.1678	J	mg/l	0.05000	0.01910	1	05/05/25 13:33	05/06/25 08:01	EPA 3005A	3,200.8	BLR
Lead, Total	0.00089	J	mg/l	0.00100	0.00034	1	05/05/25 13:33	05/06/25 08:01	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00228		mg/l	0.00200	0.00055	1	05/05/25 13:33	05/06/25 08:01	EPA 3005A	3,200.8	BLR
Zinc, Total	0.01773		mg/l	0.00500	0.00341	1	05/05/25 13:33	05/06/25 08:01	EPA 3005A	3,200.8	BLR
Total Hardness (b	y calculatio	n) - Mansfi	eld Lab								
Hardness	191.1		mg/l	0.5400	NA	1	05/05/25 13:33	05/06/25 08:01	EPA 3005A	3,200.8	BLR

General Chemistry	- Mansfield Lab					
Chromium, Trivalent	ND	mg/l	0.010	0.003	1	05/06/25 08:01 NA 107,-
Dissolved Metals -	Mansfield Lab					

Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	05/06/25 08:06 05/06/25 14:16 EPA 3005A	3,200.8	NTB
Nickel, Dissolved	0.0025		mg/l	0.0020	0.0006	1	05/06/25 08:06 05/06/25 14:16 EPA 3005A	3,200.8	NTB

Pace

Serial\_No:05072513:47

Project Name:	SPS TECHNOLOGIES		Lab Number:	L2527452
Project Number:	658978		Report Date:	05/07/25
		SAMPLE RESULTS		
Lab ID:	L2527452-02		Date Collected:	05/04/25 09:30
Client ID:	DUP-050425		Date Received:	05/04/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Refer to COC

### Sample Depth:

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Ma	nsfield Lab										
Aluminum, Total	0.03127	J	mg/l	0.01000	0.00327	1	05/05/25 13:33	05/06/25 08:15	EPA 3005A	3,200.8	BLR
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/05/25 13:33	05/06/25 08:15	EPA 3005A	3,200.8	BLR
Copper, Total	0.00581		mg/l	0.00100	0.00038	1	05/05/25 13:33	05/06/25 08:15	EPA 3005A	3,200.8	BLR
Iron, Total	0.1037	J	mg/l	0.05000	0.01910	1	05/05/25 13:33	05/06/25 08:15	EPA 3005A	3,200.8	BLR
Lead, Total	0.00054	J	mg/l	0.00100	0.00034	1	05/05/25 13:33	05/06/25 08:15	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00157	J	mg/l	0.00200	0.00055	1	05/05/25 13:33	05/06/25 08:15	EPA 3005A	3,200.8	BLR
Zinc, Total	0.01864		mg/l	0.00500	0.00341	1	05/05/25 13:33	05/06/25 08:15	EPA 3005A	3,200.8	BLR
Total Hardness (b	y calculatio	n) - Mansfi	eld Lab								
Hardness	189.8		mg/l	0.5400	NA	1	05/05/25 13:33	05/06/25 08:15	EPA 3005A	3,200.8	BLR

General Chemistry - Mansfield Lab										
Chromium, Trivalent	ND	mg/l	0.010	0.003	1		05/06/25 08:15	NA	107,-	
Dissolved Metals - I	Mansfield Lab									

Chromium, Dissolved	0.0002	J	mg/l	0.0010	0.0002	1	05/06/25 08:06 05/06/25 12:11 EPA 3005A	3,200.8	NTB
Nickel, Dissolved	0.0015	J	mg/l	0.0020	0.0006	1	05/06/25 08:06 05/06/25 12:11 EPA 3005A	3,200.8	NTB

Pace

# INORGANICS & MISCELLANEOUS



Serial\_No:05072513:47

L2527452

05/07/25

Lab Number:

**Report Date:** 

Project Name: SPS TECHNOLOGIES

Project Number: 658978

#### SAMPLE RESULTS

Lab ID:	L2527452-01	Date Collected:	05/04/25 09:15
Client ID:	OF006-050425	Date Received:	05/04/25
Sample Location:	JENKINTOWN, PA	Field Prep:	Refer to COC

Sample Depth: Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analysi
General Chemistry - Wes	tborough Lat	D								
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	05/05/25 07:46	121,2540D	BAY
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/05/25 15:10	05/06/25 11:51	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	05/04/25 20:19	121,4500CN-	KAF
Nitrogen, Nitrate/Nitrite	3.3		mg/l	0.10	0.046	1	-	05/06/25 05:34	E(M) 44,353.2	KAF
Chemical Oxygen Demand	26. J+		mg/l	20	6.0	1	05/05/25 10:00	05/05/25 12:49	44,410.4	MRW
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/05/25 08:46	05/05/25 10:25	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/04/25 20:40	05/04/25 20:53	121,3500CR-B	KAF

Pace

Serial\_No:05072513:47

L2527452

05/07/25

Lab Number:

**Report Date:** 

Project Name: SPS TECHNOLOGIES

Project Number: 658978

#### SAMPLE RESULTS

Lab ID:	L2527452-02	Date Collected:	05/04/25 09:30
Client ID:	DUP-050425	Date Received:	05/04/25
Sample Location:	JENKINTOWN, PA	Field Prep:	Refer to COC

Sample Depth: Matrix:

Water

Deremeter	Decul		Unite	ы	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Ameliat
Parameter	Result	t Qualifier	Units	RL	MDL		Topaloa	Analyzeu		Analyst
General Chemistry - Wes	stborough L	ab								
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	05/05/25 07:46	121,2540D	BAY
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/05/25 15:10	05/06/25 11:57	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	05/04/25 20:19	121,4500CN-	KAF
Nitrogen, Nitrate/Nitrite	3.6		mg/l	0.10	0.046	1	-	05/06/25 05:38	E(M) 44,353.2	KAF
Chemical Oxygen Demand	<del>16.</del> NC	) 1	mg/l	20	6.0	1	05/05/25 10:00	05/05/25 12:49	44,410.4	MRW
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/05/25 08:46	05/05/25 13:26	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/04/25 20:40	05/04/25 20:53	121,3500CR-B	KAF



Appendix C



#### ANALYTICAL REPORT

Lab Number:	L2527452
Client:	TRC Environmental
	1617 JFK Blvd.
	Suite 510
	Philadelphia, PA 19103
ATTN:	Julie Acton
Phone:	(215) 563-2122
Project Name:	SPS TECHNOLOGIES
Project Number:	658978
Report Date:	05/07/25

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

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

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



Serial\_No:05072513:47

Project Name:SPS TECHNOLOGIESProject Number:658978

 Lab Number:
 L2527452

 Report Date:
 05/07/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2527452-01	OF006-050425	WATER	JENKINTOWN, PA	05/04/25 09:15	05/04/25
L2527452-02	DUP-050425	WATER	JENKINTOWN, PA	05/04/25 09:30	05/04/25
L2527452-03	TRIP BLANK-050425	WATER	JENKINTOWN, PA	04/25/25 00:00	05/04/25



Project Name: SPS TECHNOLOGIES Project Number: 658978 Lab Number: L2527452 Report Date: 05/07/25

#### **Case Narrative**

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

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

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

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

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

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



Project Name: SPS TECHNOLOGIES Project Number: 658978 
 Lab Number:
 L2527452

 Report Date:
 05/07/25

#### **Case Narrative (continued)**

**Report Revision** 

May 07, 2025: The Total Metals WG2062548-5/-6 MS/MSD has been amended to include Iron.

**Report Submission** 

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

Volatile Organics by Method 624

The WG2063026-5/-6 MS/MSD recoveries performed on L2527452-01 are above the acceptance criteria for 2-butanone (148%/148%); however, the associated LCS recovery is within overall method allowances.

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

Melissa Sturgis Melissa Sturgis

Authorized Signature:

Title: Technical Director/Representative

Date: 05/07/25

# ORGANICS



# VOLATILES



			Serial_No	0:05072513:47
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2527452
Project Number:	658978		Report Date:	05/07/25
		SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2527452-01 OF006-050425 JENKINTOWN, PA		Date Collected: Date Received: Field Prep:	05/04/25 09:15 05/04/25 Refer to COC
Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst:	Water 128,624.1 05/05/25 17:52 GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	tborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			98		6	60-140
Fluorobenzene			105		6	60-140
4-Bromofluorobenzene			82		6	60-140

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			Serial_No	0:05072513:47
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2527452
Project Number:	658978		Report Date:	05/07/25
		SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2527452-02 DUP-050425 JENKINTOWN, PA		Date Collected: Date Received: Field Prep:	05/04/25 09:30 05/04/25 Refer to COC
Sample Depth:				
Matrix:	Water			
Analytical Method: Analytical Date: Analyst:	128,624.1 05/05/25 18:27 GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes		quanter	Units			
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			97		6	60-140
Fluorobenzene			104		6	60-140
4-Bromofluorobenzene			82		6	60-140



			Serial_N	0:05072513:47
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2527452
Project Number:	658978		Report Date:	05/07/25
		SAMPLE RESULTS		
Lab ID:	L2527452-03		Date Collected:	04/25/25 00:00
Client ID:	TRIP BLANK-050425		Date Received:	05/04/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Refer to COC
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	05/05/25 17:18			
Analyst:	GMT			

Parameter	Result	Qualifier	Units	RL	MDL	<b>Dilution Factor</b>
Volatile Organics by GC/MS - Wes	stborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifie		ptance iteria
Pentafluorobenzene			96		6	60-140
Fluorobenzene			104		6	60-140
4-Bromofluorobenzene			83		6	60-140



Project Name: SPS TECHNOLOGIES

Project Number: 658978

 Lab Number:
 L2527452

 Report Date:
 05/07/25

## Method Blank Analysis Batch Quality Control

Analytical Method:128,624.1Analytical Date:05/05/25 13:36Analyst:GMT

Parameter	Result	Qualifier Uni	its	RL	MDL	
Volatile Organics by GC/MS - W	/estborough Lab	for sample(s)	: 01-03	Batch:	WG2063026-4	
Toluene	ND	m	g/l	0.0010	0.00031	
2-Butanone	ND	m	g/l	0.010	0.0010	

		Acceptance
Surrogate	%Recovery	Qualifier Criteria
Pentafluorobenzene	99	60-140
Fluorobenzene	107	60-140
4-Bromofluorobenzene	87	60-140



## Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: 658978

 Lab Number:
 L2527452

 Report Date:
 05/07/25

	LCS		LCSD		%Recovery			RPD	
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits	
Volatile Organics by GC/MS - Westbor	ough Lab Associat	ed sample(s)	: 01-03 Batch	: WG206	63026-3				
Toluene	95		-		70-130	-		41	
2-Butanone	136		-		60-140	-		30	

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
Pentafluorobenzene	98		60-140
Fluorobenzene	105		60-140
4-Bromofluorobenzene	84		60-140



## Matrix Spike Analysis

Project Name:	SPS TECHNOLOGIES	Batch Quality Control	L
Project Number:	658978	I	R

 Lab Number:
 L2527452

 Report Date:
 05/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/ Client ID: OF006-05042		gh Lab As	sociated sam	ple(s): 01-03	QC Ba	tch ID: WG	62063026-5 V	VG206	3026-6 QC	Samp	ole: L252	7452-01
Toluene	ND	0.02	0.020	100		0.019	95		47-150	5		41
2-Butanone	ND	0.05	0.074	148	Q	0.074	148	Q	60-140	0		30

	MS	MSD	Acceptance
Surrogate	% Recovery Qualifier	% Recovery Qualifier	Criteria
4-Bromofluorobenzene	82	82	60-140
Fluorobenzene	105	106	60-140
Pentafluorobenzene	98	99	60-140



## METALS



Serial\_No:05072513:47

Project Name:	SPS TECHNOLOGIES		Lab Number:	L2527452
Project Number:	658978		Report Date:	05/07/25
		SAMPLE RESULTS		
Lab ID:	L2527452-01		Date Collected:	05/04/25 09:15
Client ID:	OF006-050425		Date Received:	05/04/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Refer to COC

## Sample Depth:

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mar	nsfield Lab										
Aluminum, Total	0.04902		mg/l	0.01000	0.00327	1	05/05/25 13:33	3 05/06/25 08:01	EPA 3005A	3,200.8	BLR
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/05/25 13:33	8 05/06/25 08:01	EPA 3005A	3,200.8	BLR
Copper, Total	0.00579		mg/l	0.00100	0.00038	1	05/05/25 13:33	8 05/06/25 08:01	EPA 3005A	3,200.8	BLR
Iron, Total	0.1678		mg/l	0.05000	0.01910	1	05/05/25 13:33	8 05/06/25 08:01	EPA 3005A	3,200.8	BLR
Lead, Total	0.00089	J	mg/l	0.00100	0.00034	1	05/05/25 13:33	8 05/06/25 08:01	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00228		mg/l	0.00200	0.00055	1	05/05/25 13:33	3 05/06/25 08:01	EPA 3005A	3,200.8	BLR
Zinc, Total	0.01773		mg/l	0.00500	0.00341	1	05/05/25 13:33	3 05/06/25 08:01	EPA 3005A	3,200.8	BLR
Total Hardness (b	y calculatio	n) - Mansfi	eld Lab								
Hardness	191.1		mg/l	0.5400	NA	1	05/05/25 13:33	3 05/06/25 08:01	EPA 3005A	3,200.8	BLR

General Chemistry - Mansfield Lab										
Chromium, Trivalent	ND	mg/l	0.010	0.003	1	05/06/25 08:01	NA	107,-		
Dissolved Metals - N	Mansfield Lab									

Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	05/06/25 08:06 05/06/25 14:16 EPA 3005A	3,200.8	NTB
Nickel, Dissolved	0.0025		mg/l	0.0020	0.0006	1	05/06/25 08:06 05/06/25 14:16 EPA 3005A	3,200.8	NTB

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Serial\_No:05072513:47

Project Name:	SPS TECHNOLOGIES		Lab Number:	L2527452
Project Number:	658978		Report Date:	05/07/25
		SAMPLE RESULTS		
Lab ID:	L2527452-02		Date Collected:	05/04/25 09:30
Client ID:	DUP-050425		Date Received:	05/04/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Refer to COC

## Sample Depth:

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	sfield Lab										
Aluminum, Total	0.03127		mg/l	0.01000	0.00327	1	05/05/25 13:33	05/06/25 08:15	EPA 3005A	3,200.8	BLR
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/05/25 13:33	05/06/25 08:15	EPA 3005A	3,200.8	BLR
Copper, Total	0.00581		mg/l	0.00100	0.00038	1	05/05/25 13:33	05/06/25 08:15	EPA 3005A	3,200.8	BLR
Iron, Total	0.1037		mg/l	0.05000	0.01910	1	05/05/25 13:33	05/06/25 08:15	EPA 3005A	3,200.8	BLR
Lead, Total	0.00054	J	mg/l	0.00100	0.00034	1	05/05/25 13:33	05/06/25 08:15	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00157	J	mg/l	0.00200	0.00055	1	05/05/25 13:33	05/06/25 08:15	EPA 3005A	3,200.8	BLR
Zinc, Total	0.01864		mg/l	0.00500	0.00341	1	05/05/25 13:33	05/06/25 08:15	EPA 3005A	3,200.8	BLR
Total Hardness (by	calculatio	n) - Mansfi	eld Lab								
Hardness	189.8		mg/l	0.5400	NA	1	05/05/25 13:33	05/06/25 08:15	EPA 3005A	3,200.8	BLR

General Chemistry - Mansfield Lab										
Chromium, Trivalent	ND	mg/l	0.010	0.003	1	05/06/25 08:15	NA	107,-		
Dissolved Metals - N	Mansfield Lab									

Chromium, Dissolved	0.0002	J	mg/l	0.0010	0.0002	1	05/06/25 08:06 05/06/25 12:11 EPA 3005A	3,200.8	NTB
Nickel, Dissolved	0.0015	J	mg/l	0.0020	0.0006	1	05/06/25 08:06 05/06/25 12:11 EPA 3005A	3,200.8	NTB

Pace

 Lab Number:
 L2527452

 Report Date:
 05/07/25

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfie	eld Lab for sample(s):	01-02 E	Batch: WC	G206254	48-1				
Aluminum, Total	ND	mg/l	0.01000	0.00327	<sup>'</sup> 1	05/05/25 13:33	05/05/25 17:10	3,200.8	NTB
Chromium, Total	ND	mg/l	0.00100	0.00017	<sup>'</sup> 1	05/05/25 13:33	05/05/25 17:10	3,200.8	NTB
Copper, Total	ND	mg/l	0.00100	0.00038	1	05/05/25 13:33	05/05/25 17:10	3,200.8	NTB
Iron, Total	ND	mg/l	0.05000	0.01910	1	05/05/25 13:33	05/05/25 17:10	3,200.8	NTB
Lead, Total	ND	mg/l	0.00100	0.00034	· 1	05/05/25 13:33	05/05/25 17:10	3,200.8	NTB
Nickel, Total	ND	mg/l	0.00200	0.00055	1	05/05/25 13:33	05/05/25 17:10	3,200.8	NTB
Zinc, Total	ND	mg/l	0.00500	0.00341	1	05/05/25 13:33	05/05/25 17:10	3,200.8	NTB

## **Prep Information**

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	l Analyst
Total Hardness (by	calculation) - Mansfield L	ab for sa	ample(s):	01-02	Batch: W	/G2062548-1			
Hardness	ND	mg/l	0.5400	NA	1	05/05/25 13:33	05/05/25 17:10	3,200.8	NTB

### **Prep Information**

Digestion Method: EPA 3005A

Parameter	Result Qu	ualifier Un	its	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Ma	ansfield Lab fo	r sample(s):	01-02	Batch:	WG20	062811-1				
Chromium, Dissolved	ND	m	g/l	0.0010	0.0002	1	05/06/25 08:06	05/06/25 11:48	3,200.8	NTB
Nickel, Dissolved	ND	m	g/l	0.0020	0.0006	1	05/06/25 08:06	05/06/25 11:48	3,200.8	NTB

## **Prep Information**

Digestion Method: EPA 3005A

Pace

## Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: 658978

Lab Number: L2527452

**Report Date:** 05/07/25

Parameter	LCS %Recovery		LCSD ecovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated same	ble(s): 01-02	Batch: WG2062	548-2					
Aluminum, Total	102		-		85-115	-		
Chromium, Total	99		-		85-115	-		
Copper, Total	102		-		85-115	-		
Iron, Total	104		-		85-115	-		
Lead, Total	101		-		85-115	-		
Nickel, Total	101		-		85-115	-		
Zinc, Total	102		-		85-115	-		
Total Hardness (by calculation) - Mansfield La	b Associated	sample(s): 01-02	2 Batch: V	/G2062548	3-2			
Hardness	95		-		85-115	-		
Dissolved Metals - Mansfield Lab Associated	sample(s): 01	-02 Batch: WG	2062811-2					
Chromium, Dissolved	100		-		85-115	-		
Nickel, Dissolved	103		-		85-115	-		

## Matrix Spike Analysis Batch Quality Control

**Project Name:** SPS TECHNOLOGIES

**Project Number:** 658978 Lab Number: L2527452 **Report Date:** 05/07/25

70-130

11

20

Pace

arameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield L	ab Associated san	nple(s): 01-0	2 QC Bat	ch ID: WG206	2548-3	QC Sam	ple: L2526009-	01 CI	ient ID: MS	Samp	ble	
Aluminum, Total	5.992	2	9.234	162	Q	-	-		70-130	-		20
Chromium, Total	0.010	0.2	0.2164	103		-	-		70-130	-		20
Copper, Total	0.00649	0.25	0.2738	107		-	-		70-130	-		20
Iron, Total	4.431	1	5.829	140	Q	-	-		70-130	-		20
Lead, Total	0.00473	0.53	0.5511	103		-	-		70-130	-		20
Nickel, Total	0.0039	0.5	0.5308	105		-	-		70-130	-		20
Zinc, Total	0.00720	0.5	0.5371	106		-	-		70-130	-		20
otal Hardness (by calcul	ation) - Mansfield L 175.3	ab Associat	ed sample( 235.3	(s): 01-02 QC	Batch I	D: WG206	2548-3 QC S -	Sample:	: L2526009· 70-130	-01 C	Client ID	D: MS
otal Hardness (by calcul Sample Hardness otal Metals - Mansfield L	175.3	66.2	235.3	91		-	2548-3 QC S - 48-6 QC Samp	•	70-130	-	Client ID	20
otal Hardness (by calcul Sample Hardness otal Metals - Mansfield L	175.3	66.2	235.3	91		-	-	•	70-130	-		20
otal Hardness (by calcul Sample Hardness otal Metals - Mansfield L 50425	175.3 ab Associated san	66.2 nple(s): 01-0	235.3 2 QC Bat	91 cch ID: WG206		- WG206254	- 48-6 QC Samı	•	70-130 527452-01	Clien		20 9F006-
otal Hardness (by calcul Sample Hardness otal Metals - Mansfield L 50425 Aluminum, Total	175.3 ab Associated san 0.04902	66.2 nple(s): 01-0 2	235.3 2 QC Bat 2.390	91 cch ID: WG206 117		- WG206254 2.367	- 48-6 QC Samı 116	•	70-130 527452-01 70-130	- Clien 1		20 <b>PF006-</b> 20
Total Hardness (by calcul Sample Hardness Total Metals - Mansfield L 150425 Aluminum, Total Chromium, Total	175.3 ab Associated san 0.04902 ND	66.2 nple(s): 01-0 2 0.2	235.3 2 QC Bat 2.390 0.2172	91 ch ID: WG206 117 109		- WG206254 2.367 0.1966	- 48-6 QC Samp 116 98	•	70-130 527452-01 70-130 70-130	Clien 1 10		20 DF006- 20 20
Fotal Hardness (by calcula Sample Hardness Fotal Metals - Mansfield L 050425 Aluminum, Total Chromium, Total Copper, Total	175.3 ab Associated san 0.04902 ND 0.00579	66.2 nple(s): 01-0 2 0.2 0.25	235.3 2 QC Bat 2.390 0.2172 0.2815	91 ach ID: WG206 117 109 110		- WG206254 2.367 0.1966 0.2656	- 48-6 QC Samp 116 98 104	•	70-130 527452-01 70-130 70-130 70-130	- Clien 1 10 6		20 DF006- 20 20 20
Total Hardness (by calculation         Sample         Hardness         Total Metals - Mansfield L         050425         Aluminum, Total         Chromium, Total         Copper, Total         Iron, Total	175.3 ab Associated sam 0.04902 ND 0.00579 0.1678	66.2 nple(s): 01-0 2 0.2 0.25 1	235.3 2 QC Bat 2.390 0.2172 0.2815 1.322	91 ach ID: WG206 117 109 110 115		- WG206254 2.367 0.1966 0.2656 1.270	- 48-6 QC Samp 116 98 104 110	•	70-130 527452-01 70-130 70-130 70-130 70-130	- Clien 1 10 6 4		20 DF006- 20 20 20 20

129

247.1

85

Hardness

191.1

66.2

276.7

L2527452

## Matrix Spike Analysis

Project Name:	SPS TECHNOLOGIES	Batch Quality Control	Lab Number:
Draiget Number	050030		Donort Doto

Project Number: 658978

**Report Date:** 05/07/25

arameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield La Sample	b Associated	d sample(s):	01-02 Q(	C Batch ID: WG	G2062811-3 WG20	62811-4 QC Sa	ample: L2527509	-03 Cli	ent ID: MS
Chromium, Dissolved	0.0002J	0.2	0.1967	98	0.1973	99	70-130	0	20
Nickel, Dissolved	0.0020	0.5	0.5108	102	0.5008	100	70-130	2	20
Dissolved Metals - Mansfield La 050425	b Associated	d sample(s):	01-02 Q(	C Batch ID: WG	G2062811-5 WG20	62811-6 QC Sa	ample: L2527452	-01 Cli	ent ID: OF00
Chromium, Dissolved	0.0003J	0.2	0.2048	102	0.2087	104	70-130	2	20

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# Lab Duplicate Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: 658978

Lab Number: L2527452 Report Date: 05/07/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual I	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02	2 QC Batch ID:	WG2062548-4 QC Sample:	L2526009-01	Client ID:	DUP Sample	e
Copper, Total	0.00649	0.00602	mg/l	8		20
Iron, Total	4.431	5.139	mg/l	15		20
Lead, Total	0.00473	0.00497	mg/l	5		20
Zinc, Total	0.00720	0.00833	mg/l	15		20



# INORGANICS & MISCELLANEOUS



Serial\_No:05072513:47

L2527452

05/07/25

Lab Number:

**Report Date:** 

Project Name: SPS TECHNOLOGIES

Project Number: 658978

### SAMPLE RESULTS

Lab ID:	L2527452-01	Date Collected:	05/04/25 09:15
Client ID: Sample Location:	OF006-050425 JENKINTOWN, PA	Date Received: Field Prep:	05/04/25 Refer to COC
Sample Location:	JENKINTOWN, PA	Field Prep:	Refer to CC

Sample Depth: Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lat	)								
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	05/05/25 07:46	121,2540D	BAY
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/05/25 15:10	05/06/25 11:51	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	05/04/25 20:19	121,4500CN- E(M)	KAF
Nitrogen, Nitrate/Nitrite	3.3		mg/l	0.10	0.046	1	-	05/06/25 05:34	44,353.2	KAF
Chemical Oxygen Demand	26.		mg/l	20	6.0	1	05/05/25 10:00	05/05/25 12:49	44,410.4	MRW
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/05/25 08:46	05/05/25 10:25	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/04/25 20:40	05/04/25 20:53	121,3500CR-B	KAF

Pace

Serial\_No:05072513:47

L2527452

05/07/25

Lab Number:

**Report Date:** 

Project Name: SPS TECHNOLOGIES

Project Number: 658978

### SAMPLE RESULTS

Lab ID:	L2527452-02	Date Collected:	05/04/25 09:30
Client ID: Sample Location:	DUP-050425 JENKINTOWN, PA	Date Received: Field Prep:	05/04/25 Refer to COC
Campio Location.			

Sample Depth: Matrix:

Water

Matrix.	valer									
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough La	b								
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	05/05/25 07:46	121,2540D	BAY
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/05/25 15:10	05/06/25 11:57	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	05/04/25 20:19	121,4500CN- E(M)	KAF
Nitrogen, Nitrate/Nitrite	3.6		mg/l	0.10	0.046	1	-	05/06/25 05:38	44,353.2	KAF
Chemical Oxygen Demand	16.	J	mg/l	20	6.0	1	05/05/25 10:00	05/05/25 12:49	44,410.4	MRW
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/05/25 08:46	05/05/25 13:26	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/04/25 20:40	05/04/25 20:53	121,3500CR-B	KAF

Pace

 Lab Number:
 L2527452

 Report Date:
 05/07/25

## Method Blank Analysis Batch Quality Control

Parameter	Result Qu	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	estborough Lab	for sam	ple(s): 01	I-02 E	Batch: WC	G2062244-	1			
Cyanide, Free	ND		mg/l	0.01	0 0.003	1	-	05/04/25 20:19	121,4500CN-E(M	) KAF
General Chemistry - We	estborough Lab	for sam	ple(s): 01	I-02 E	Batch: WC	92062245-	1			
Chromium, Hexavalent	ND		mg/l	0.01	0 0.003	1	05/04/25 20:40	05/04/25 20:51	121,3500CR-B	KAF
General Chemistry - We	estborough Lab	for sam	ple(s): 01	I-02 E	Batch: WC	32062356-	1			
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	05/05/25 07:46	121,2540D	BAY
General Chemistry - We	estborough Lab	for sam	ple(s): 01	I-02 E	Batch: WC	G2062422-	1			
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/05/25 08:46	05/05/25 10:29	140,1664B	TPR
General Chemistry - We	estborough Lab	for sam	ple(s): 01	I-02 E	Batch: WC	92062436-	1			
Chemical Oxygen Demand	11.	J	mg/l	20	6.0	1	05/05/25 10:00	05/05/25 12:43	44,410.4	MRW
General Chemistry - We	estborough Lab	for sam	ple(s): 01	I-02 E	Batch: WC	32062585-	1			
Cyanide, Total	ND		mg/l	0.00	5 0.001	1	05/05/25 15:10	05/06/25 11:43	121,4500CN-CE	JER
General Chemistry - We	estborough Lab	for sam	ple(s): 01	I-02 E	Batch: WC	92062763-	1			
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	05/06/25 05:14	44,353.2	KAF



#### Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: 658978

Lab Number: L2527452 Report Date: 05/07/25

LCS LCSD %Recovery %Recovery %Recovery Limits RPD **RPD** Limits Qual Parameter Qual Qual General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2062244-2 Cyanide, Free 104 90-110 -General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2062245-2 Chromium, Hexavalent 104 85-115 20 General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2062356-2 Solids, Total Suspended 80-120 88 -General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2062422-2 Oil & Grease, Hem-Grav 96 78-114 18 General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2062436-2 Chemical Oxygen Demand 101 90-110 General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2062585-2 Cyanide, Total 91 90-110 -General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2062763-2 Nitrogen, Nitrate/Nitrite 98 -90-110



## Matrix Spike Analysis

Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: 658978

Lab Number: L2527452 Report Date: 05/07/25

RPD Native MS MS MS MSD MSD Recovery Qual Found Sample Added Found %Recovery Limits Limits **RPD** Qual %Recoverv Qual Parameter QC Batch ID: WG2062244-4 WG2062244-5 QC Sample: L2527452-01 General Chemistry - Westborough Lab Associated sample(s): 01-02 Client ID: OF006-050425 Cyanide, Free ND 0.25 0.267 107 0.263 105 80-120 2 20 General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG2062245-4 WG2062245-5 QC Sample: L2527452-01 Client ID: OF006-050425 Chromium, Hexavalent ND 0.1 0.096 0.097 96 97 85-115 20 1 General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG2062422-4 WG2062422-5 QC Sample: L2527452-01 Client ID: OF006-050425 39.2 Oil & Grease. Hem-Grav ND 38 96 37 93 78-114 4 18 General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG2062436-4 QC Sample: L2527452-01 Client ID: OF006-050425 Chemical Oxygen Demand 26. 238 280 107 90-110 20 General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG2062585-3 WG2062585-4 QC Sample: L2527452-01 Client ID: OF006-050425 0.2 Cyanide, Total ND 0.198 99 0.200 100 90-110 30 1 General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG2062763-4 QC Sample: L2525532-02 Client ID: MS Sample Nitrogen, Nitrate/Nitrite 5.2 4 9.1 80-120 98 20 QC Batch ID: WG2062763-6 QC Sample: L2527452-01 Client ID: OF006-050425 General Chemistry - Westborough Lab Associated sample(s): 01-02 Nitrogen, Nitrate/Nitrite 3.3 4 7.3 100 80-120 20

## Lab Duplicate Analysis Batch Quality Control

Project Name:SPS TECHNOLOGIESProject Number:658978

Lab Number: Report Date:

ber: L2527452 ate: 05/07/25

General Chemistry - Westborough Lab Associated sample(s): 01-02         QC Batch ID: WG2062244-3         QC Sample:         L2527452-01         Client ID:         OF006-0504           Cyanide, Free         ND         ND         mg/l         NC         20           General Chemistry - Westborough Lab Associated sample(s):         01-02         QC Batch ID:         WG2062245-3         QC Sample:         L2527452-01         Client ID:         OF006-0504           Chromium, Hexavalent         ND         ND         mg/l         NC         20         20           General Chemistry - Westborough Lab Associated sample(s):         01-02         QC Batch ID:         WG2062236-3         QC Sample:         L2527452-01         Client ID:         DF006-0504           Solids, Total Suspended         520         470         mg/l         10         32         20           General Chemistry - Westborough Lab Associated sample(s):         01-02         QC Batch ID:         WG2062422-3         QC Sample:         L2527452-01         Client ID:         OF006-0504           Solds, Total Suspended         ND         ND         mg/l         NC         32         20         20         20         20         20         20         20         20         20         20         20         20         20 </th <th>Parameter</th> <th>Nativ</th> <th>ve Sam</th> <th>ple D</th> <th>uplicate Sample</th> <th>Units</th> <th>RPD</th> <th>Qual</th> <th>RPD Limits</th>	Parameter	Nativ	ve Sam	ple D	uplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab         Associated sample(s):         01-02         QC Batch ID:         WG2062245-3         QC Sample:         L2527452-01         Client ID:         O F006-0504           Chromium, Hexavalent         ND         ND         mg/l         NC         20           General Chemistry - Westborough Lab         Associated sample(s):         01-02         QC Batch ID:         WG2062356-3         QC Sample:         L2526658-03         Client ID:         DUP Sample           Solids, Total Suspended         520         470         mg/l         10         32           General Chemistry - Westborough Lab         Associated sample(s):         01-02         QC Batch ID:         WG2062356-4         QC Sample:         L2527452-01         Client ID:         OF006-0504           Solids, Total Suspended         ND         ND         mg/l         NC         32           General Chemistry - Westborough Lab         Associated sample(s):         01-02         QC Batch ID:         WG2062422-3         QC Sample:         L2527452-01         Client ID:         OF006-0504           Oll & Grease, Hem-Grav         ND         ND         mg/l         NC         18           General Chemistry - Westborough Lab         Associated sample(s):         01-02         QC Batch ID:         WG20624	General Chemistry - Westborough Lab	Associated sample(s):	01-02	QC Batch ID:	WG2062244-3	QC Sample:	L2527452-01	Client ID:	OF006-050425
Chromium, Hexavalent         ND         mg/l         NC         20           General Chemistry - Westborough Lab         Associated sample(s): 01-02         QC Batch ID:         WG2062356-3         QC Sample:         L2526658-03         Client ID:         DUP Sample           Solids, Total Suspended         520         470         mg/l         10         32           General Chemistry - Westborough Lab         Associated sample(s): 01-02         QC Batch ID:         WG2062356-4         QC Sample:         L2527452-01         Client ID:         OF006-0504           Solids, Total Suspended         ND         ND         mg/l         NC         32           General Chemistry - Westborough Lab         Associated sample(s): 01-02         QC Batch ID:         WG2062422-3         QC Sample:         L2527452-01         Client ID:         OF006-0504           Oil & Grease, Hem-Grav         ND         ND         mg/l         NC         18           General Chemistry - Westborough Lab         Associated sample(s): 01-02         QC Batch ID:         WG2062436-3         QC Sample:         L2527452-01         Client ID:         OF006-0504           Oil & Grease, Hem-Grav         ND         ND         mg/l         NC         18           General Chemistry - Westborough Lab         Associated sample(s): 01-02	Cyanide, Free		ND		ND	mg/l	NC		20
General Chemistry - Westborough Lab       Associated sample(s):       01-02       QC Batch ID:       WG2062356-3       QC Sample:       L2526658-03       Client ID:       DUP Sample         Solids, Total Suspended       520       470       mg/l       10       32         General Chemistry - Westborough Lab       Associated sample(s):       01-02       QC Batch ID:       WG2062356-4       QC Sample:       L2527452-01       Client ID:       OF006-0504         Solids, Total Suspended       ND       ND       mg/l       NC       32         General Chemistry - Westborough Lab       Associated sample(s):       01-02       QC Batch ID:       WG2062422-3       QC Sample:       L2527452-01       Client ID:       OF006-0504         Oil & Grease, Hem-Grav       ND       ND       Mg/l       NC       18         General Chemistry - Westborough Lab       Associated sample(s):       01-02       QC Batch ID:       WG2062436-3       QC Sample:       L2527452-01       Client ID:       OF006-0504         Chemical Oxygen Demand       26.       26       mg/l       0       20       20         General Chemistry - Westborough Lab       Associated sample(s):       01-02       QC Batch ID:       WG2062763-5       QC Sample:       L2527452-01       Client ID:       OF	General Chemistry - Westborough Lab	Associated sample(s):	01-02	QC Batch ID:	WG2062245-3	QC Sample:	L2527452-01	Client ID:	OF006-050425
Solids, Total Suspended520470mg/l1032General Chemistry - Westborough LabAssociated sample(s): 01-02QC Batch ID: WG2062356-4QC Sample: L2527452-01Client ID: OF006-0504Solids, Total SuspendedNDNDmg/lNC32General Chemistry - Westborough LabAssociated sample(s): 01-02QC Batch ID: WG2062422-3QC Sample: L2527452-01Client ID: OF006-0504Oil & Grease, Hem-GravNDNDmg/lNC18General Chemistry - Westborough LabAssociated sample(s): 01-02QC Batch ID: WG2062436-3QC Sample: L2527452-01Client ID: OF006-0504Chemical Oxygen Demand26.26mg/l020General Chemistry - Westborough LabAssociated sample(s): 01-02QC Batch ID: WG2062585-5QC Sample: L2527452-01Client ID: OF006-0504Cyanide, TotalNDNDmg/l020General Chemistry - Westborough LabAssociated sample(s): 01-02QC Batch ID: WG2062585-5QC Sample: L2527452-01Client ID: OF006-0504Cyanide, TotalNDNDmg/lNC30General Chemistry - Westborough LabAssociated sample(s): 01-02QC Batch ID: WG2062763-3QC Sample: L2525532-02Client ID: DUP SampleNitrogen, Nitrate/Nitrite5.25.2mg/l020General Chemistry - Westborough LabAssociated sample(s): 01-02QC Batch ID: WG2062763-3QC Sample: L2525532-02Client ID: DUP SampleNitrogen, Nitrate/Nitrite5.25.2mg/l0 <t< td=""><td>Chromium, Hexavalent</td><td></td><td>ND</td><td></td><td>ND</td><td>mg/l</td><td>NC</td><td></td><td>20</td></t<>	Chromium, Hexavalent		ND		ND	mg/l	NC		20
General Chemistry - Westborough LabAssociated sample(s):01-02QC Batch ID:WG2062356-4QC Sample:L2527452-01Client ID:OF006-0504Solids, Total SuspendedNDMDmg/lNC32General Chemistry - Westborough LabAssociated sample(s):01-02QC Batch ID:WG2062422-3QC Sample:L2527452-01Client ID:OF006-0504Oil & Grease, Hem-GravNDNDmg/lNC18General Chemistry - Westborough LabAssociated sample(s):01-02QC Batch ID:WG2062436-3QC Sample:L2527452-01Client ID:OF006-0504Chemical Oxygen Demand26.26mg/l02020General Chemistry - Westborough LabAssociated sample(s):01-02QC Batch ID:WG2062585-5QC Sample:L2527452-01Client ID:OF006-0504General Chemistry - Westborough LabAssociated sample(s):01-02QC Batch ID:WG2062585-5QC Sample:L2527452-01Client ID:OF006-0504General Chemistry - Westborough LabAssociated sample(s):01-02QC Batch ID:WG2062585-5QC Sample:L2527452-01Client ID:OF006-0504General Chemistry - Westborough LabAssociated sample(s):01-02QC Batch ID:WG2062763-3QC Sample:L252532-02Client ID:DUP SampleNitrogen, Nitrate/Nitrite5.25.2mg/l02020General Chemistry - Westborough LabAssociated sample(s):01-02QC Batch ID:WG	General Chemistry - Westborough Lab	Associated sample(s):	01-02	QC Batch ID:	WG2062356-3	QC Sample:	L2526658-03	Client ID:	DUP Sample
Solids, Total SuspendedNDNDmg/lNC32General Chemistry - Westborough LabAssociated sample(s):01-02QC Batch ID:WG2062422-3QC Sample:L2527452-01Client ID:OF006-0504Oil & Grease, Hem-GravNDNDmg/lNC18General Chemistry - Westborough LabAssociated sample(s):01-02QC Batch ID:WG2062436-3QC Sample:L2527452-01Client ID:OF006-0504Chemical Oxygen Demand26.26mg/l020General Chemistry - Westborough LabAssociated sample(s):01-02QC Batch ID:WG2062585-5QC Sample:L2527452-01Client ID:OF006-0504Cyanide, TotalNDNDmg/l02020General Chemistry - Westborough LabAssociated sample(s):01-02QC Batch ID:WG2062763-3QC Sample:L2527452-01Client ID:OF006-0504General Chemistry - Westborough LabAssociated sample(s):01-02QC Batch ID:WG2062763-3QC Sample:L2527452-01Client ID:OF006-0504Nitrogen, Nitrate/Nitrite5.25.2mg/l02020General Chemistry - Westborough LabAssociated sample(s):01-02QC Batch ID:WG2062763-5QC Sample:L2527452-01Client ID:DUP SampleNitrogen, Nitrate/Nitrite5.25.2mg/l0202020General Chemistry - Westborough LabAssociated sample(s):01-02202020 </td <td>Solids, Total Suspended</td> <td></td> <td>520</td> <td></td> <td>470</td> <td>mg/l</td> <td>10</td> <td></td> <td>32</td>	Solids, Total Suspended		520		470	mg/l	10		32
General Chemistry - Westborough Lab Associated sample(s): 01-02QC Batch ID: WG2062422-3QC Sample: L2527452-01Client ID: OF006-0504Oil & Grease, Hem-GravNDNDmg/lNC18General Chemistry - Westborough Lab Associated sample(s): 01-02QC Batch ID: WG2062436-3QC Sample: L2527452-01Client ID: OF006-0504Chemical Oxygen Demand26.26mg/l020General Chemistry - Westborough Lab Associated sample(s): 01-02QC Batch ID: WG2062585-5QC Sample: L2527452-01Client ID: OF006-0504Cyanide, TotalNDNDmg/lNC30General Chemistry - Westborough Lab Associated sample(s): 01-02QC Batch ID: WG2062763-3QC Sample: L252532-02Client ID: DUP SampleNitrogen, Nitrate/Nitrite5.25.2mg/l020General Chemistry - Westborough Lab Associated sample(s): 01-02QC Batch ID: WG2062763-5QC Sample: L2527452-01Client ID: DUP SampleNitrogen, Nitrate/Nitrite5.25.2mg/l020General Chemistry - Westborough Lab Associated sample(s): 01-02QC Batch ID: WG2062763-5QC Sample: L2527452-01Client ID: DUP SampleNitrogen, Nitrate/Nitrite5.25.2mg/l020General Chemistry - Westborough Lab Associated sample(s): 01-02QC Batch ID: WG2062763-5QC Sample: L2527452-01Client ID: OF006-0504NDMDMDMDMDMDMD20General Chemistry - Westborough Lab Associated sample(s): 01-02QC Batch ID: WG2062763-5QC Sample: L252745	General Chemistry - Westborough Lab	Associated sample(s):	01-02	QC Batch ID:	WG2062356-4	QC Sample:	L2527452-01	Client ID:	OF006-050425
NDNDmg/lNC18General Chemistry - Westborough LabAssociated sample(s): 01-02QC Batch ID: WG2062436-3QC Sample:L2527452-01Client ID: OF006-0504Chemical Oxygen Demand26.26mg/l020General Chemistry - Westborough LabAssociated sample(s): 01-02QC Batch ID: WG2062585-5QC Sample:L2527452-01Client ID: OF006-0504General Chemistry - Westborough LabAssociated sample(s): 01-02QC Batch ID: WG2062763-5QC Sample:L2527452-01Client ID: OF006-0504General Chemistry - Westborough LabAssociated sample(s): 01-02QC Batch ID: WG2062763-3QC Sample:L252532-02Client ID: DUP SampleNitrogen, Nitrate/Nitrite5.25.2mg/l020General Chemistry - Westborough LabAssociated sample(s): 01-02QC Batch ID: WG2062763-5QC Sample:L2527452-01Client ID: DUP SampleNitrogen, Nitrate/Nitrite5.25.2mg/l020General Chemistry - Westborough LabAssociated sample(s): 01-02QC Batch ID: WG2062763-5QC Sample:L2527452-01Client ID: DUP SampleNitrogen, Nitrate/Nitrite5.25.2mg/l02020General Chemistry - Westborough LabAssociated sample(s): 01-02QC Batch ID: WG2062763-5QC Sample:L2527452-01Client ID: DF006-0504General Chemistry - Westborough LabAssociated sample(s): 01-02QC Batch ID: WG2062763-5QC Sample:L2527452-01Client ID: DF006-0504	Solids, Total Suspended		ND		ND	mg/l	NC		32
General Chemistry - Westborough Lab       Associated sample(s): 01-02       QC Batch ID: WG2062436-3       QC Sample: L2527452-01       Client ID: OF006-0504         Chemical Oxygen Demand       26.       26       mg/l       0       20         General Chemistry - Westborough Lab       Associated sample(s): 01-02       QC Batch ID: WG2062585-5       QC Sample: L2527452-01       Client ID: OF006-0504         Cyanide, Total       ND       ND       mg/l       NC       30         General Chemistry - Westborough Lab       Associated sample(s): 01-02       QC Batch ID: WG2062763-3       QC Sample: L2525532-02       Client ID: DUP Sample         Nitrogen, Nitrate/Nitrite       5.2       5.2       mg/l       0       20         General Chemistry - Westborough Lab       Associated sample(s): 01-02       QC Batch ID: WG2062763-3       QC Sample: L2527452-01       Client ID: DUP Sample         Nitrogen, Nitrate/Nitrite       5.2       mg/l       0       20         General Chemistry - Westborough Lab       Associated sample(s): 01-02       QC Batch ID: WG2062763-5       QC Sample: L2527452-01       Client ID: OF006-0504         General Chemistry - Westborough Lab       Associated sample(s): 01-02       QC Batch ID: WG2062763-5       QC Sample: L2527452-01       Client ID: OF006-0504	General Chemistry - Westborough Lab	Associated sample(s):	01-02	QC Batch ID:	WG2062422-3	QC Sample:	L2527452-01	Client ID:	OF006-050425
Chemical Oxygen Demand       26.       26       mg/l       0       20         General Chemistry - Westborough Lab       Associated sample(s):       01-02       QC Batch ID:       WG2062585-5       QC Sample:       L2527452-01       Client ID:       OF006-0504         Cyanide, Total       ND       ND       Mg/l       NC       30         General Chemistry - Westborough Lab       Associated sample(s):       01-02       QC Batch ID:       WG2062763-3       QC Sample:       L252732-02       Client ID:       DUP Sample         Nitrogen, Nitrate/Nitrite       5.2       5.2       mg/l       0       20         General Chemistry - Westborough Lab       Associated sample(s):       01-02       QC Batch ID:       WG2062763-3       QC Sample:       L2527452-01       Client ID:       DUP Sample         Nitrogen, Nitrate/Nitrite       5.2       5.2       mg/l       0       20         General Chemistry - Westborough Lab       Associated sample(s):       01-02       QC Batch ID:       WG2062763-5       QC Sample:       L2527452-01       Client ID:       OF006-0504	Oil & Grease, Hem-Grav		ND		ND	mg/l	NC		18
General Chemistry - Westborough Lab Associated sample(s):       01-02       QC Batch ID:       WG2062585-5       QC Sample:       L2527452-01       Client ID:       OF006-0504         Cyanide, Total       ND       MD       Mg/l       NC       30         General Chemistry - Westborough Lab       Associated sample(s):       01-02       QC Batch ID:       WG2062763-3       QC Sample:       L2525532-02       Client ID:       DUP Sample         Nitrogen, Nitrate/Nitrite       5.2       5.2       mg/l       0       20         General Chemistry - Westborough Lab       Associated sample(s):       01-02       QC Batch ID:       WG2062763-3       QC Sample:       L2527452-01       Client ID:       DUP Sample         General Chemistry - Westborough Lab       Associated sample(s):       01-02       QC Batch ID:       WG2062763-5       QC Sample:       L2527452-01       Client ID:       OF006-0504	General Chemistry - Westborough Lab	Associated sample(s):	01-02	QC Batch ID:	WG2062436-3	QC Sample:	L2527452-01	Client ID:	OF006-050425
Cyanide, Total       ND       MD       mg/l       NC       30         General Chemistry - Westborough Lab Associated sample(s):       01-02       QC Batch ID:       WG2062763-3       QC Sample:       L2525532-02       Client ID:       DUP Sample         Nitrogen, Nitrate/Nitrite       5.2       5.2       mg/l       0       20         General Chemistry - Westborough Lab Associated sample(s):       01-02       QC Batch ID:       WG2062763-5       QC Sample:       L2527452-01       Client ID:       OF006-0504	Chemical Oxygen Demand		26.		26	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-02       QC Batch ID: WG2062763-3       QC Sample: L2525532-02       Client ID: DUP Sample         Nitrogen, Nitrate/Nitrite       5.2       5.2       mg/l       0       20         General Chemistry - Westborough Lab Associated sample(s): 01-02       QC Batch ID: WG2062763-5       QC Sample: L2527452-01       Client ID: OF006-0504	General Chemistry - Westborough Lab	Associated sample(s):	01-02	QC Batch ID:	WG2062585-5	QC Sample:	L2527452-01	Client ID:	OF006-050425
Nitrogen, Nitrate/Nitrite       5.2       5.2       mg/l       0       20         General Chemistry - Westborough Lab Associated sample(s): 01-02       QC Batch ID: WG2062763-5       QC Sample: L2527452-01       Client ID: OF006-0504	Cyanide, Total		ND		ND	mg/l	NC		30
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG2062763-5 QC Sample: L2527452-01 Client ID: OF006-0504	General Chemistry - Westborough Lab	Associated sample(s):	01-02	QC Batch ID:	WG2062763-3	QC Sample:	L2525532-02	Client ID:	DUP Sample
	Nitrogen, Nitrate/Nitrite		5.2		5.2	mg/l	0		20
	General Chemistry - Westborough Lab	Associated sample(s):	01-02	QC Batch ID:	WG2062763-5	QC Sample:	L2527452-01	Client ID:	OF006-050425
Nitrogen, Nitrate/Nitrite 3.3 3.2 mg/l 3 20	Nitrogen, Nitrate/Nitrite		3.3		3.2	mg/l	3		20



Serial No:05072513:47 Lab Number: L2527452 Report Date: 05/07/25

#### Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

#### **Cooler Information**

Container Information

Cooler	Custody Seal
A	Absent
В	Absent
С	Absent

#### Initial Final Temp Frozen pН deg C Pres Seal Date/Time Cooler pH Container ID Container Type Analysis(\*) L2527452-01A Vial Na2S2O3 preserved С NA 2.1 624.1-PPM(7) Υ Absent L2527452-01A1 Vial Na2S2O3 preserved С 2.1 624.1-PPM(7) NA Υ Absent L2527452-01A2 Vial Na2S2O3 preserved С 2.1 Υ 624.1-PPM(7) NA Absent L2527452-01B Vial Na2S2O3 preserved С 2.1 Υ 624.1-PPM(7) NA Absent L2527452-01B1 Vial Na2S2O3 preserved С NA 2.1 Υ Absent 624.1-PPM(7) С L2527452-01B2 Vial Na2S2O3 preserved NA 2.1 Υ Absent 624.1-PPM(7) L2527452-01C Vial Na2S2O3 preserved С Υ NA 2.1 Absent 624.1-PPM(7) С L2527452-01C1 Vial Na2S2O3 preserved NA 2.1 Υ 624.1-PPM(7) Absent С L2527452-01C2 Vial Na2S2O3 preserved NA 2.1 Υ Absent 624.1-PPM(7) L2527452-01D В Υ Plastic 250ml HNO3 preserved <2 <2 2.5 Absent CR-2008S(180),NI-2008S(180) А <2 <2 Υ L2527452-01D1 Plastic 250ml HNO3 preserved 4.6 Absent CR-2008S(180),NI-2008S(180) L2527452-01D2 Plastic 250ml HNO3 preserved А <2 <2 4.6 Υ CR-2008S(180),NI-2008S(180) Absent в L2527452-01E Plastic 250ml HNO3 preserved <2 <2 2.5 Υ AL-2008T(180),NI-2008T(180),ZN-Absent 2008T(180),CU-2008T(180),HARDT-2008(180),FE-2008T(180),CR-2008T(180),PB-2008T(180) L2527452-01E1 Plastic 250ml HNO3 preserved <2 А <2 4.6 Υ Absent AL-2008T(180),NI-2008T(180),ZN-2008T(180),CU-2008T(180),HARDT-2008(180),FE-2008T(180),CR-2008T(180),PB-2008T(180) L2527452-01E2 Plastic 250ml HNO3 preserved AL-2008T(180),NI-2008T(180),ZN-А <2 <2 4.6 Υ Absent 2008T(180),CU-2008T(180),HARDT-2008(180),FE-2008T(180),CR-2008T(180),PB-2008T(180) L2527452-01F Plastic 250ml H2SO4 preserved В <2 <2 2.5 Υ Absent NO3/NO2-353(28),COD-410(28)



Serial\_No:05072513:47 *Lab Number:* L2527452 *Report Date:* 05/07/25

Container Information			Initial	Final	Temp			Frozen	
Container ID Container Type		Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2527452-01F1	Plastic 250ml H2SO4 preserved	А	<2	<2	4.6	Y	Absent		NO3/NO2-353(28),COD-410(28)
L2527452-01F2	Plastic 250ml H2SO4 preserved	А	<2	<2	4.6	Y	Absent		NO3/NO2-353(28),COD-410(28)
L2527452-01G	Plastic 250ml NaOH preserved	В	>12	>12	2.5	Y	Absent		TCN-4500(14)
L2527452-01G1	Plastic 250ml NaOH preserved	А	>12	>12	4.6	Y	Absent		TCN-4500(14)
L2527452-01G2	Plastic 250ml NaOH preserved	А	>12	>12	4.6	Y	Absent		TCN-4500(14)
L2527452-01H	Plastic 950ml unpreserved	В	7	7	2.5	Y	Absent		HEXCR-3500(1),FCN(1)
L2527452-01H1	Plastic 950ml unpreserved	А	7	7	4.6	Y	Absent		HEXCR-3500(1),FCN(1)
L2527452-01H2	Plastic 950ml unpreserved	А	7	7	4.6	Y	Absent		HEXCR-3500(1),FCN(1)
L2527452-01J	Plastic 950ml unpreserved	В	7	7	2.5	Y	Absent		TSS-2540(7)
L2527452-01J1	Plastic 950ml unpreserved	А	7	7	4.6	Y	Absent		TSS-2540(7)
L2527452-01J2	Plastic 950ml unpreserved	А	7	7	4.6	Y	Absent		TSS-2540(7)
L2527452-01K	Amber 1L HCI preserved	В	NA		2.5	Y	Absent		OG-1664(28)
L2527452-01K1	Amber 1L HCI preserved	А	NA		4.6	Y	Absent		OG-1664(28)
L2527452-01K2	Amber 1L HCI preserved	А	NA		4.6	Y	Absent		OG-1664(28)
L2527452-01L	Amber 1L HCI preserved	В	NA		2.5	Y	Absent		OG-1664(28)
L2527452-01L1	Amber 1L HCI preserved	А	NA		4.6	Y	Absent		OG-1664(28)
L2527452-01L2	Amber 1L HCI preserved	А	NA		4.6	Y	Absent		OG-1664(28)
L2527452-02A	Vial Na2S2O3 preserved	С	NA		2.1	Y	Absent		624.1-PPM(7)
L2527452-02B	Vial Na2S2O3 preserved	С	NA		2.1	Y	Absent		624.1-PPM(7)
L2527452-02C	Vial Na2S2O3 preserved	С	NA		2.1	Y	Absent		624.1-PPM(7)
L2527452-02D	Plastic 250ml HNO3 preserved	В	<2	<2	2.5	Y	Absent		CR-2008S(180),NI-2008S(180)
L2527452-02E	Plastic 250ml HNO3 preserved	В	<2	<2	2.5	Y	Absent		AL-2008T(180),NI-2008T(180),ZN- 2008T(180),CU-2008T(180),HARDT- 2008(180),FE-2008T(180),PB- 2008T(180),CR-2008T(180)
L2527452-02F	Plastic 250ml H2SO4 preserved	В	<2	<2	2.5	Y	Absent		NO3/NO2-353(28),COD-410(28)
L2527452-02G	Plastic 250ml NaOH preserved	В	>12	>12	2.5	Y	Absent		TCN-4500(14)
L2527452-02H	Plastic 950ml unpreserved	В	7	7	2.5	Y	Absent		HEXCR-3500(1),FCN(1)
L2527452-02J	Plastic 950ml unpreserved	В	7	7	2.5	Y	Absent		TSS-2540(7)
L2527452-02K	Amber 1L HCI preserved	В	NA		2.5	Y	Absent		OG-1664(28)

\*Values in parentheses indicate holding time in days

Container Information				Final	Temp			Frozen			
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)		
L2527452-02L	Amber 1L HCI preserved	В	NA		2.5	Y	Absent		OG-1664(28)		
L2527452-03A	Vial Na2S2O3 preserved	С	NA		2.1	Y	Absent		624.1-PPM(7)		
L2527452-03B	Vial Na2S2O3 preserved	С	NA		2.1	Y	Absent		624.1-PPM(7)		



## Project Name: SPS TECHNOLOGIES

Project Number: 658978

## Lab Number: L2527452

**Report Date:** 05/07/25

### GLOSSARY

#### Acronyms

Actoryms	
DL	<ul> <li>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.)</li> </ul>
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	<ul> <li>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.</li> </ul>
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



#### **Project Name:** SPS TECHNOLOGIES

**Project Number:** 658978

#### Lab Number: L2527452 **Report Date:** 05/07/25

Footnotes

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

#### Terms

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

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

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

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

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

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

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

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

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

#### Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers



### Project Name: SPS TECHNOLOGIES

Project Number: 658978

Lab Number: L2527452

**Report Date:** 05/07/25

#### Data Qualifiers

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

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

Report Format: DU Report with 'J' Qualifiers



 Lab Number:
 L2527452

 Report Date:
 05/07/25

#### REFERENCES

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

#### LIMITATION OF LIABILITIES

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

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



## Certification Information

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

#### Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

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

EPA 625.1: alpha-Terpineol

EPA 8260D: <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270E: <u>NPW:</u> Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine. SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

## Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. MADEP-APH. Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048 EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Nonpotable Water: EPA RSK-175 Dissolved Gases

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

#### Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048 Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

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

#### Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

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

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

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

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

#### Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

#### Drinking Water

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

#### Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. EPA 245.1 Hg. SM2340B

#### **Certification IDs:**

#### Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

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

#### Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

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

#### Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

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

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

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