SPS TECHNOLOGIES - ABINGTON PA
OUTFALL SAMPLING RESULTS REPORT FOR MAY 9, 2025

PREPARED FOR:
SPS TECHNOLOGIES

PREPARED BY:
TRC ENVIRONMENTAL CORPORATION, INC
1617 JFK BOULEVARD, SUITE 510
PHILADELPHIA, PA 19103

MAY 15, 2025

TABLE OF CONTENTS

Page No.

Figures

Table

Appendices

1.0 EXECUTIVE SUMMARY

TRC Environmental Corporation (TRC), on behalf of SPS Technologies Abington PA (SPS), collected three outfall samples in accordance with TRC Surface Water and Outfall Sampling Plan revised on March 25, 2025 (Sampling Plan). The samples were collected on May 9, 2025 and submitted to a Pennsylvania-certified analytical laboratory for analysis. The sample locations are 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 002	Outfall 002 (Duplicate)	Outfall 006	Outfall 009
Parameter	**Units**	Result	Result	Result	Result
Volatile Organic Compounds					
Toluene	mg/L	ND	ND	ND	ND
2-Butanone (MEK)	mg/L	ND	ND	ND	ND
General Chemistry					
Chromium, Trivalent	mg/L	0.071	0.056	ND	ND
Chromium, Hexavalent	mg/L	ND	ND	ND	J 0.006
Total Cyanide	mg/L	0.044 J	0.063 J	J 0.008	J 0.011
Free Cyanide	mg/L	0.006 J	0.006 J	ND	ND
Oil & Grease	mg/L	ND	ND	ND	ND
Total Suspended Solids	mg/L	1,100 J	3,100 J	J 5.1	ND
Nitrate/Nitrite as Nitrogen	mg/L	1.6	1.7	3	0.44
Chemical Oxygen Demand	mg/L	280 J+	290 J+	J+ 20	J+ 62
Total Metals					
Total Aluminum	mg/L	8.456	6.732	J+ 0.09576	0.1455
Total Chromium	mg/L	0.07118	0.05667	J 0.00054	0.00332
Total Copper	mg/L	0.1278	0.1408	0.00717	0.01793
Total Iron	mg/L	12.04 J	7.671 J	J 0.2324	J 0.9648
Total Lead	mg/L	0.1814	0.2312	0.00127	0.00509
Total Nickel	mg/L	0.08957	0.09669	ND	J+ 0.00413
Total Zinc	mg/L	0.5817	0.5873	0.02049	0.0681
Dissolved Metals					
Dissolved Chromium	mg/L	0.0033 J	0.0011 J	J 0.0003	J 0.0013
Dissolved Nickel	mg/L	0.0024	ND	ND	J 0.0018
Total Hardness					
Hardness	mg/L	232.4	251.1	150.9	53.04
Field Parameters					
pH	SU	7.87	7.87	7.23	7.36

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 9, 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 9, 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 three stormwater samples from three permitted outfalls as a result of the qualifying precipitation event on May 9, 2025.

3.1 Outfall Sampling Methodology

TRC collected the outfall samples 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 field sampling form included as **Appendix A**, except for the in-field 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

Stormwater samples were collected from three permitted outfall locations 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

- 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

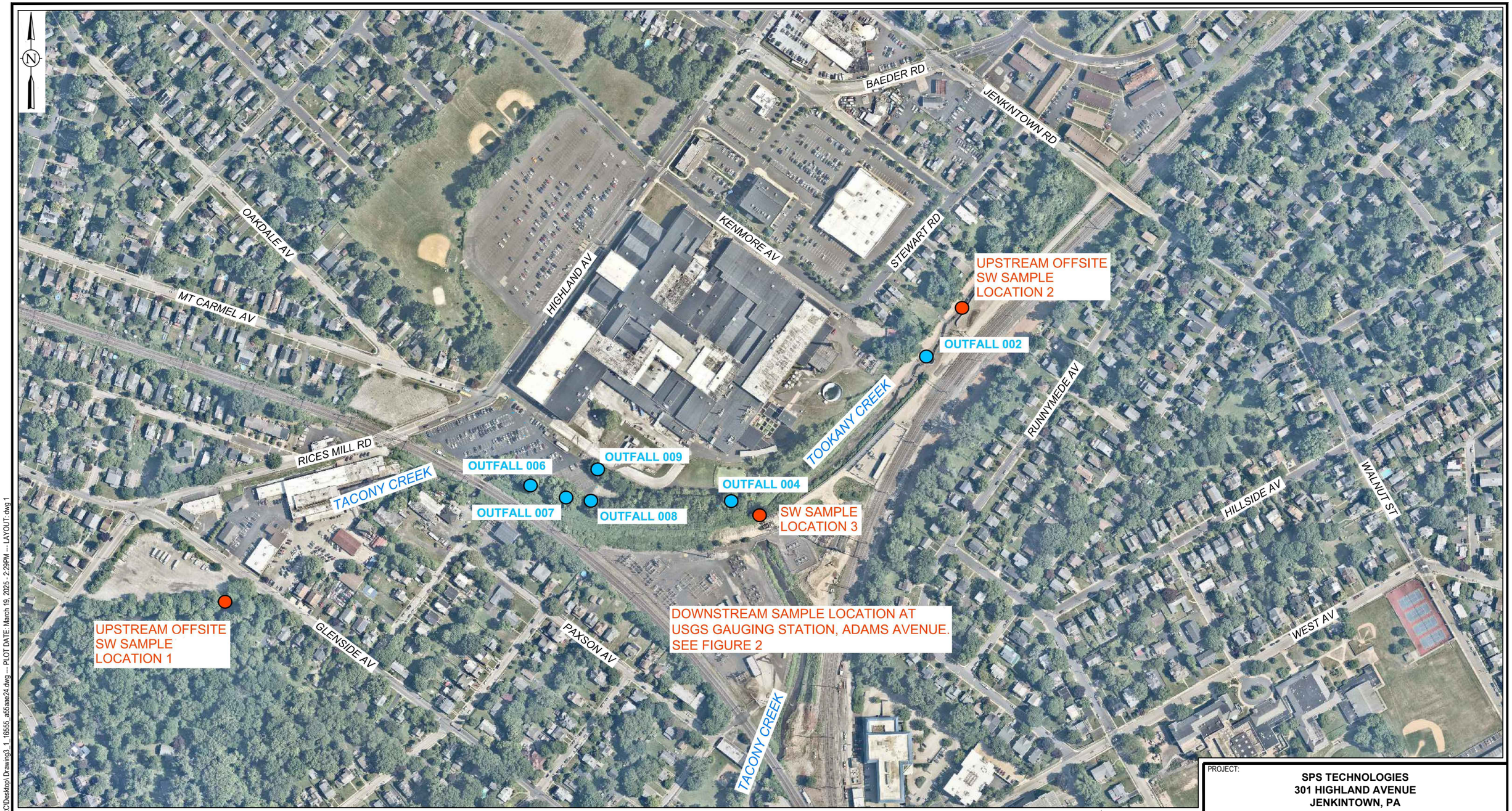
All quality assurance and quality control (QA/QC), field duplicates and matrix spikes/matrix spike duplicates (MS/MSD) were collected in accordance with the Sampling Plan at a rate of 1 per 20 samples per day. A trip blank was included daily for volatile organic compounds (VOCs). A field blank was not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



SOURCE
NEARMAP IMAGERY, JUNE 16, 2024.

LEGEND
SW = SURFACE WATER
- SURFACE WATER SAMPLE LOCATION
- APPROXIMATE OUTFALL SAMPLE LOCATION

0 300 600
SCALE IN FEET

PROJECT:
SPS TECHNOLOGIES
301 HIGHLAND AVENUE
JENKINTOWN, PA

TITLE:
ONSITE INVESTIGATION SURFACE WATER AND OUTFALL SAMPLING LOCATIONS

DRAWN BY:	M. GIAMBATTISTA	PROJ NO.:	658978.0000
CHECKED BY:	J. ACTON		
APPROVED BY:	D. CARLSON		**FIGURE 1**
DATE:	MARCH 2025		

TRC
1617 JOHN F. KENNEDY BLVD.
SUITE 510
PHILADELPHIA, PA 19103

FILE NO.: Drawing3_1_16555_a55aae24.dwg

11:47 - USER: MGiambattista - - ATTACHED XREFS: - - ATTACHED IMAGES:
DRAWING NAME: C:\Users\mgiambattista\OneDrive - TRC\Desktop\Drawing3_1_16555_a55aae24.dwg -- PLOT DATE: March 19, 2025 - 2:29PM -- LAYOUT: dwg 1
Version: 2017-10-21

May 2025

Table 1

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

Project Number: 658978

Sample Location		Outfall 002				Outfall 002 (Duplicate)				Outfall 006				Outfall 009			
Field Sample ID		OF002-050925				DUP-050925				OF006-050925				OF009-050925			
Lab Sample ID		L2529103-01				L2529103-04				L2529103-02				L2529103-03			
Sampling Date		5/09/2025				5/09/2025				5/09/2025				5/09/2025			
Matrix		Water				Water				Water				Water			
Parameter	**Units**	Result	Q	RL	MDL	Result	Q	RL	MDL	Result	Q	RL	MDL	Result	Q	RL	MDL
Volatile Organic Compounds																	
Toluene	mg/L	ND		0.0025	0.00078	ND		0.0025	0.00078	ND		0.0010	0.00031	ND		0.0010	0.00031
2-Butanone (MEK)	mg/L	ND		0.025	0.0026	ND		0.025	0.0026	ND		0.010	0.0010	ND		0.010	0.0010
General Chemistry																	
Chromium, Trivalent	mg/L	0.071		0.010	0.003	0.056		0.010	0.003	ND		0.010	0.003	ND		0.010	0.003
Chromium, Hexavalent	mg/L	ND		0.010	0.003	ND		0.010	0.003	ND		0.010	0.003	0.006	J	0.010	0.003
Total Cyanide	mg/L	0.044	J	0.005	0.001	0.063	J	0.005	0.001	0.008	J	0.005	0.001	0.011	J	0.005	0.001
Free Cyanide	mg/L	0.006	J	0.010	0.003	0.006	J	0.010	0.003	ND		0.010	0.003	ND		0.010	0.003
Oil & Grease	mg/L	ND		4.0	4.0	ND		4.0	4.0	ND		4.0	4.0	ND		4.0	4.0
Total Suspended Solids	mg/L	1,100	J	20	NA	3,100	J	50.0	NA	5.1	J	5.0	NA	ND		5.0	NA
Nitrate/Nitrite as Nitrogen	mg/L	1.6		0.10	0.046	1.7		0.10	0.046	3.0		0.10	0.046	0.44		0.10	0.046
Chemical Oxygen Demand	mg/L	280	J+	20	6.0	290	J+	20	6.0	20	J+	20	6.0	62	J+	20	6.0
Total Metals																	
Total Aluminum	mg/L	8.456		0.01000	0.00327	6.732		0.01000	0.00327	0.09576	J+	0.01000	0.00327	0.1455		0.01000	0.00327
Total Chromium	mg/L	0.07118		0.00100	0.00017	0.05667		0.00100	0.00017	0.00054	J	0.00100	0.00017	0.00332		0.00100	0.00017
Total Copper	mg/L	0.1278		0.00100	0.00038	0.1408		0.00100	0.00038	0.00717		0.00100	0.00038	0.01793		0.00100	0.00038
Total Iron	mg/L	12.04	J	0.05000	0.01910	7.671	J	0.05000	0.01910	0.2324	J	0.05000	0.01910	0.9648	J	0.05000	0.01910
Total Lead	mg/L	0.1814		0.00100	0.00034	0.2312		0.00100	0.00034	0.00127		0.00100	0.00034	0.00509		0.00100	0.00034
Total Nickel	mg/L	0.08957		0.00200	0.00055	0.09669		0.00200	0.00055	ND		0.00200	0.00055	0.00413	J+	0.00200	0.00055
Total Zinc	mg/L	0.5817		0.00500	0.00341	0.5873		0.00500	0.00341	0.02049		0.00500	0.00341	0.06810		0.00500	0.00341
Dissolved Metals																	
Dissolved Chromium	mg/L	0.0033	J	0.0010	0.0002	0.0011	J	0.0010	0.0002	0.0003	J	0.0010	0.0002	0.0013	J	0.0010	0.0002
Dissolved Nickel	mg/L	0.0024		0.0020	0.0006	ND		0.0020	0.0006	ND		0.0020	0.0006	0.0018	J	0.0020	0.0006
Total Hardness																	
Hardness	mg/L	232.4		0.5400	NA	251.1		0.5400	NA	150.9		0.5400	NA	53.04		0.5400	NA
Field Parameters																	
pH[1]	SU	7.87				7.87				7.23				7.36			

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: JM 5/14/25 Checked By: MO 5/14/25

Date: 5/9/25

Project Number: 658578

SURFACE WATER/OUTFALL SAMPLE FIELD INFORMATION FORM

Site: SPS

Location: Al-[illegible] [illegible]

Project Number: 658578

Water Quality Meter: Horiba U-50 S/N: U12C603X

Meter Calibrated @: 5/9/25 @ 0830

Flow Meter: [illegible] S/N: 337466

Sampling Date/Time: OF002 @ 0900 OF009 @ 0945 OF006 @ 1045

Sampler(s): [illegible] T. Thompson

Sampling Device: Dipper Pole

Sample Characteristics:

Analytical Parameters:

Additional Notes: [illegible] observed at OF002
Dup-050925 collected from OF002
MS/MSD collected from OF006
[illegible] observed at OF006

Weather Conditions: Rain H:62 L:57

SAMPLE / STATION	STATION DESCRIPTION (stream, lake river)	DATE MM/DD/YY	TIME hh:mm	TOTAL DEPTH inches	SAMPLE DEPTH	WATER TEMP Celsius	SALINITY ppt	pH SU	COND mS/cm	ORP mV	TURBIDITY NTU	DO mg/L	VELOCITY ft/sec
OF002	outfall	5/9/25	0900	0.5	0.25	18.05	0.28	7.87	0.586	395	753	9.68	NM
	Sample Characteristics	↑ turb light brn color grass + suspended debris in water											
OF009	outfall	5/9/25	0945	0.5	0.25	15.61	0.17	7.36	0.367	412	11.7	10.79	NM
	Sample Characteristics	Clear	Some	debris									
OF006	outfall	5/9/25	1045	1.5	0.75	15.60	0.30	7.23	0.615	352	26.5	8.66	0.356
	Sample Characteristics	Clear	slight	Brown	tint								
	Sample Characteristics												
	Sample Characteristics												
	Sample Characteristics												

TRC

Data Validation Report

Site: SPS Technologies, Outfall Sampling
Laboratory: Pace Analytical, Westborough and Mansfield, MA
SDG No.: L2529103
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 13, 2025

Samples Reviewed and Evaluation Summary

4 Outfall Samples: OF002-050925, OF006-050925, OF009-050925, DUP-050925[1]

1 Trip Blank: TRIP BLANK-050925

[1]Field duplicate of OF002-050925

The above-listed samples were collected on May 9, 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 iron, dissolved chromium, and total cyanide in all samples in this data set and the positive results for TSS in samples OF002-050925, OF006-050925, and DUP-050925 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, free cyanide, and hexavalent chromium results that were below the lowest calibration standard and QL. These results were qualified as estimated (J) by the laboratory in the associated samples. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

- The positive results for total aluminum in sample OF006-050925 and total nickel in sample OF009-050925 were qualified as estimated with a potential high bias (J+) and the positive result for total iron in sample OF006-050925 was qualified as estimated (J) due to method blank contamination. 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 total nickel in sample OF006-050925 was qualified as nondetect (U) 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.

- The positive results for COD in all samples in this data set were qualified as estimated with a potential high bias (J+) due to a high MS recovery (%R). These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

Data Completeness

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

- The date of collection for the trip blank was listed as 5/8/25 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 OF006-050925 for nitrate/nitrite and COD rather than MS/MSD analyses as requested on the COC.
- MS/MSD analyses were not performed on sample OF006-050925 for TSS as requested on the COC; a laboratory duplicate analysis was performed instead due to the nature of the analysis.

- The sample receipt and container information section of the laboratory report noted that the filtration was unclear for the nitric acid preserved containers for sample OF002-050925. The laboratory alerted the project team to the issue and the project team confirmed that the filtered and unfiltered volumes were labeled incorrectly. The laboratory prepared additional nitric preserved sample containers utilizing volume from the unpreserved sample containers. The sample volume was preserved and filtered (for the dissolved metals analysis) within 24 hours of collection. The analysis was conducted > 24 hours after the samples were preserved.

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 criteria were met for all parameters. With the exception of total metals for sample OF002-050925, all preservation criteria were met for all parameters. The case narrative noted that the nitric acid preserved container for the analysis of total metals in sample OF002-050925 was received above the appropriate pH. The laboratory was contacted during this review and confirmed that this comment is in reference to the sample container prepared by the laboratory as discussed in the data completeness section. The laboratory added additional nitric acid to achieve a pH of <2. No validation action was required on this basis since the sample was appropriately preserved prior to analysis.

Blanks

Target VOCs were not detected in the trip blank. A field blank was not submitted with the data set. With the exceptions listed below, target analytes were not detected in the associated laboratory method blanks.

- Total aluminum, total iron, and total nickel were detected in the laboratory method blank associated with all samples in this data set at concentrations of 0.00972 J mg/L, 0.02338 J mg/L, and 0.00058 J mg/L, respectively. The positive results for total aluminum in sample OF006-050925 and total nickel in sample OF009-050925 were qualified as estimated with a potential high bias (J+) since the results were ≥ the QL but < 10x the amount detected in the method blank. The positive result for total iron in sample OF006-050925 was qualified as estimated (J) without direction of bias due to further qualification based on field duplicate variability discussed later in this report. The positive result for total nickel in sample OF006-050925 was qualified as nondetect (U) at the QL since the result was < the QL. No qualification was required on this basis for the remaining associated samples since the results for the listed analytes were ≥ the QL and ≥ 10x the amount detected in the method blank.
- COD was detected in the laboratory method blank associated with samples OF002-050925 and DUP-050925 at a concentration of 14 J mg/L. No qualification was required on this basis since the results for COD in samples OF002-050925 and DUP-050925 were ≥ the QL and ≥ 10x the amount detected in the method blank.

Surrogate Recoveries (VOCs only)

All criteria were met.

MS/MSD Results

MS/MSD analyses were performed on sample OF006-050925 for VOCs, total and dissolved metals,

hardness, total cyanide, free cyanide, oil and grease, and hexavalent chromium. MS analyses were performed on sample OF006-050925 for nitrate/nitrite and COD. With the exception of COD, all criteria were met. The %R for COD in the MS (121%) performed on sample OF006-050925 was above the laboratory acceptance criteria (90-110%). Therefore, the positive results for COD in all samples in this data set were qualified as estimated with a potential high bias (J+).

Laboratory Duplicate Results

Laboratory duplicate analyses were performed on sample OF006-050925 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 OF002-050925 and DUP-050925 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. 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)	OF002-050925 (mg/L)	DUP-050925 (mg/L)	RPD (%) or AbsD (mg/L)	Validation Action
Total Iron	0.050	12.04	7.671	RPD = 44.3 (>30%)	The positive results for total iron, dissolved chromium, and total cyanide in all samples in this data set were qualified as estimated (J). The positive results for TSS in samples OF002-050925, OF006-050925, and DUP-050925 were qualified as estimated (J). No qualification was required on this basis for sample OF009-050925 since TSS was not detected in this sample.
Dissolved Chromium	0.001	0.0033	0.0011	AbsD = 0.0022 (>QL)	
TSS	20/50	1100	3100	RPD = 95.2 (>30%)	
Total Cyanide	0.005	0.044	0.063	RPD = 35.5 (>30%)	
Total Aluminum	0.010	8.456	6.732	RPD = 22.7	None; all criteria were met.
Total Chromium	0.001	0.07118	0.05667	RPD = 22.7	
Total Copper	0.001	0.1278	0.01408	RPD = 9.7	
Total Lead	0.001	0.1814	0.2312	RPD = 24.1	
Total Nickel	0.002	0.08957	0.09669	RPD = 7.6	
Total Zinc	0.005	0.5817	0.5873	RPD = 1.0	
Hardness	0.54	232.4	251.1	RPD = 7.7	
Trivalent Chromium	0.01	0.071	0.056	RPD = 23.6	
Dissolved Nickel	0.002	0.0024	ND	AbsD = 0.0004	
Free Cyanide	0.01	0.006 J	0.006 J	AbsD = 0	

Analyte	QLs (mg/L)	OF002-050925 (mg/L)	DUP-050925 (mg/L)	RPD (%) or AbsD (mg/L)	Validation Action
Nitrate/Nitrite	0.10	1.6	1.7	RPD = 6.1	None; all criteria were met.
COD	20	280	290	RPD = 3.5	

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, free cyanide, and hexavalent chromium results were reported that were below the lowest calibration standard level and QL. These results were qualified as estimated (J) in the associated samples by the laboratory.

The following table summarizes the dilutions performed on the samples in this data set. The QLs for these samples were elevated accordingly.

Sample ID(s)	Analytes	Dilution Factor(s)	Reason for Dilution
OF002-050925	Toluene, 2-Butanone	2.5-fold	Dilution was required due to the sample matrix. The case narrative noted that the sample was cloudy and had sediment present. Toluene and 2-butanone were not detected in these samples.
DUP-050925			
OF002-050925	TSS	4-fold	Dilutions were likely due to the concentration of TSS and/or the sample matrix. Dilutions were associated with positive detections above the QL.
DUP-050925		10-fold	

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 ≤ 20% when dissolved results are greater than total results and both results are ≥ 5x the QL. If the dissolved result was > the total and one or both results were < 5x the QL, then the AbsD should be ≤ 2x the QL. These criteria were met for all samples.

QUALIFIED FORM 1s

VOLATILES

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-01 D
Client ID: OF002-050925
Sample Location: JENKINTOWN, PA

Date Collected: 05/09/25 09:00
Date Received: 05/09/25
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/12/25 11:00
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Toluene	ND		mg/l	0.0025	0.00078	2.5
2-Butanone	ND		mg/l	0.025	0.0026	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	95		60-140
Fluorobenzene	94		60-140
4-Bromofluorobenzene	96		60-140

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-02
Client ID: OF006-050925
Sample Location: JENKINTOWN, PA
Date Collected: 05/09/25 10:45
Date Received: 05/09/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/12/25 12:39
Analyst: GMT

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	90		60-140
Fluorobenzene	106		60-140
4-Bromofluorobenzene	101		60-140

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-03
Client ID: OF009-050925
Sample Location: JENKINTOWN, PA

Date Collected: 05/09/25 09:45
Date Received: 05/09/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/12/25 11:33
Analyst: GMT

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	92		60-140
Fluorobenzene	92		60-140
4-Bromofluorobenzene	99		60-140

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-04 D
Client ID: DUP-050925
Sample Location: JENKINTOWN, PA

Date Collected: 05/09/25 00:00
Date Received: 05/09/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/12/25 12:05
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Toluene	ND		mg/l	0.0025	0.00078	2.5
2-Butanone	ND		mg/l	0.025	0.0026	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	82		60-140
Fluorobenzene	91		60-140
4-Bromofluorobenzene	96		60-140

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-05
Client ID: TRIP BLANK-050925
Sample Location: JENKINTOWN, PA

Date Collected: 05/08/25 00:00
Date Received: 05/09/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/12/25 10:25
Analyst: GMT

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	98		60-140
Fluorobenzene	99		60-140
4-Bromofluorobenzene	95		60-140

METALS

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-01
Client ID: OF002-050925
Sample Location: JENKINTOWN, PA
Sample Depth:
Matrix: Water

Date Collected: 05/09/25 09:00
Date Received: 05/09/25
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8.456		mg/l	0.01000	0.00327	1	05/12/25 07:22	05/12/25 11:31	EPA 3005A	3,200.8	NTB
Chromium, Total	0.07118		mg/l	0.00100	0.00017	1	05/12/25 07:22	05/12/25 11:31	EPA 3005A	3,200.8	NTB
Copper, Total	0.1278		mg/l	0.00100	0.00038	1	05/12/25 07:22	05/12/25 11:31	EPA 3005A	3,200.8	NTB
Iron, Total	12.04	J	mg/l	0.05000	0.01910	1	05/12/25 07:22	05/12/25 11:31	EPA 3005A	3,200.8	NTB
Lead, Total	0.1814		mg/l	0.00100	0.00034	1	05/12/25 07:22	05/12/25 11:31	EPA 3005A	3,200.8	NTB
Nickel, Total	0.08957		mg/l	0.00200	0.00055	1	05/12/25 07:22	05/12/25 11:31	EPA 3005A	3,200.8	NTB
Zinc, Total	0.5817		mg/l	0.00500	0.00341	1	05/12/25 07:22	05/12/25 11:31	EPA 3005A	3,200.8	NTB
Total Hardness (by calculation) - Mansfield Lab											
Hardness	232.4		mg/l	0.5400	NA	1	05/12/25 07:22	05/12/25 11:31	EPA 3005A	3,200.8	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	0.071		mg/l	0.010	0.003	1		05/12/25 11:31	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0033	J	mg/l	0.0010	0.0002	1	05/12/25 07:22	05/12/25 11:09	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0024		mg/l	0.0020	0.0006	1	05/12/25 07:22	05/12/25 11:09	EPA 3005A	3,200.8	BLR

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-02
Client ID: OF006-050925
Sample Location: JENKINTOWN, PA
Sample Depth:
Matrix: Water

Date Collected: 05/09/25 10:45
Date Received: 05/09/25
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.09576	J+	mg/l	0.01000	0.00327	1	05/12/25 07:22	05/12/25 11:17	EPA 3005A	3,200.8	NTB
Chromium, Total	0.00054	J	mg/l	0.00100	0.00017	1	05/12/25 07:22	05/12/25 11:17	EPA 3005A	3,200.8	NTB
Copper, Total	0.00717		mg/l	0.00100	0.00038	1	05/12/25 07:22	05/12/25 11:17	EPA 3005A	3,200.8	NTB
Iron, Total	0.2324	J	mg/l	0.05000	0.01910	1	05/12/25 07:22	05/12/25 11:17	EPA 3005A	3,200.8	NTB
Lead, Total	0.00127		mg/l	0.00100	0.00034	1	05/12/25 07:22	05/12/25 11:17	EPA 3005A	3,200.8	NTB
Nickel, Total	~~0.00163~~	ND ~~J~~	mg/l	0.00200	0.00055	1	05/12/25 07:22	05/12/25 11:17	EPA 3005A	3,200.8	NTB
Zinc, Total	0.02049		mg/l	0.00500	0.00341	1	05/12/25 07:22	05/12/25 11:17	EPA 3005A	3,200.8	NTB
Total Hardness (by calculation) - Mansfield Lab											
Hardness	150.9		mg/l	0.5400	NA	1	05/12/25 07:22	05/12/25 11:17	EPA 3005A	3,200.8	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		05/12/25 11:17	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0003	~~J~~ J	mg/l	0.0010	0.0002	1	05/12/25 07:22	05/12/25 10:57	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	1	05/12/25 07:22	05/12/25 10:57	EPA 3005A	3,200.8	BLR

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-03
Client ID: OF009-050925
Sample Location: JENKINTOWN, PA
Date Collected: 05/09/25 09:45
Date Received: 05/09/25
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 - Mansfield Lab											
Aluminum, Total	0.1455		mg/l	0.01000	0.00327	1	05/12/25 07:22	05/12/25 11:35	EPA 3005A	3,200.8	NTB
Chromium, Total	0.00332		mg/l	0.00100	0.00017	1	05/12/25 07:22	05/12/25 11:35	EPA 3005A	3,200.8	NTB
Copper, Total	0.01793		mg/l	0.00100	0.00038	1	05/12/25 07:22	05/12/25 11:35	EPA 3005A	3,200.8	NTB
Iron, Total	0.9648	J	mg/l	0.05000	0.01910	1	05/12/25 07:22	05/12/25 11:35	EPA 3005A	3,200.8	NTB
Lead, Total	0.00509		mg/l	0.00100	0.00034	1	05/12/25 07:22	05/12/25 11:35	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00413	J+	mg/l	0.00200	0.00055	1	05/12/25 07:22	05/12/25 11:35	EPA 3005A	3,200.8	NTB
Zinc, Total	0.06810		mg/l	0.00500	0.00341	1	05/12/25 07:22	05/12/25 11:35	EPA 3005A	3,200.8	NTB
Total Hardness (by calculation) - Mansfield Lab											
Hardness	53.04		mg/l	0.5400	NA	1	05/12/25 07:22	05/12/25 11:35	EPA 3005A	3,200.8	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		05/12/25 11:35	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0013	J	mg/l	0.0010	0.0002	1	05/12/25 07:22	05/12/25 11:12	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0018	J	mg/l	0.0020	0.0006	1	05/12/25 07:22	05/12/25 11:12	EPA 3005A	3,200.8	BLR

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-04
Client ID: DUP-050925
Sample Location: JENKINTOWN, PA
Sample Depth:
Matrix: Water

Date Collected: 05/09/25 00:00
Date Received: 05/09/25
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6.732		mg/l	0.01000	0.00327	1	05/12/25 07:22	05/12/25 11:40	EPA 3005A	3,200.8	NTB
Chromium, Total	0.05667		mg/l	0.00100	0.00017	1	05/12/25 07:22	05/12/25 11:40	EPA 3005A	3,200.8	NTB
Copper, Total	0.1408		mg/l	0.00100	0.00038	1	05/12/25 07:22	05/12/25 11:40	EPA 3005A	3,200.8	NTB
Iron, Total	7.671	J	mg/l	0.05000	0.01910	1	05/12/25 07:22	05/12/25 11:40	EPA 3005A	3,200.8	NTB
Lead, Total	0.2312		mg/l	0.00100	0.00034	1	05/12/25 07:22	05/12/25 11:40	EPA 3005A	3,200.8	NTB
Nickel, Total	0.09669		mg/l	0.00200	0.00055	1	05/12/25 07:22	05/12/25 11:40	EPA 3005A	3,200.8	NTB
Zinc, Total	0.5873		mg/l	0.00500	0.00341	1	05/12/25 07:22	05/12/25 11:40	EPA 3005A	3,200.8	NTB
Total Hardness (by calculation) - Mansfield Lab											
Hardness	251.1		mg/l	0.5400	NA	1	05/12/25 07:22	05/12/25 11:40	EPA 3005A	3,200.8	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	0.056		mg/l	0.010	0.003	1		05/12/25 11:40	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0011	J	mg/l	0.0010	0.0002	1	05/12/25 07:22	05/12/25 11:16	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	1	05/12/25 07:22	05/12/25 11:16	EPA 3005A	3,200.8	BLR

INORGANICS
&
MISCELLANEOUS

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-01
Client ID: OF002-050925
Sample Location: JENKINTOWN, PA

Date Collected: 05/09/25 09:00
Date Received: 05/09/25
Field Prep: None

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	1100	J	mg/l	20	NA	4	-	05/10/25 16:34	121,2540D	REM
Cyanide, Total	0.044	J	mg/l	0.005	0.001	1	05/11/25 11:35	05/12/25 14:40	121,4500CN-CE	JER
Cyanide, Free	0.006	J	mg/l	0.010	0.003	1	-	05/10/25 08:25	121,4500CN-E(M)	KAF
Nitrogen, Nitrate/Nitrite	1.6		mg/l	0.10	0.046	1	-	05/10/25 08:11	44,353.2	KAF
Chemical Oxygen Demand	280	J+	mg/l	20	6.0	1	05/12/25 11:00	05/12/25 13:24	44,410.4	MRW
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/12/25 09:04	05/12/25 13:17	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/10/25 06:45	05/10/25 07:06	121,3500CR-B	DMO

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-02
Client ID: OF006-050925
Sample Location: JENKINTOWN, PA

Date Collected: 05/09/25 10:45
Date Received: 05/09/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	5.1	J	mg/l	5.0	NA	1	-	05/10/25 16:34	121,2540D	REM
Cyanide, Total	0.008	J	mg/l	0.005	0.001	1	05/11/25 11:35	05/12/25 14:41	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	05/10/25 08:25	121,4500CN-E(M)	KAF
Nitrogen, Nitrate/Nitrite	3.0		mg/l	0.10	0.046	1	-	05/10/25 08:12	44,353.2	KAF
Chemical Oxygen Demand	20.	J+	mg/l	20	6.0	1	05/10/25 13:24	05/10/25 17:01	44,410.4	CVN
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/12/25 09:04	05/12/25 10:41	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/10/25 06:45	05/10/25 07:07	121,3500CR-B	DMO

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-03
Client ID: OF009-050925
Sample Location: JENKINTOWN, PA

Date Collected: 05/09/25 09:45
Date Received: 05/09/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	05/10/25 16:34	121,2540D	REM
Cyanide, Total	0.011	J	mg/l	0.005	0.001	1	05/11/25 11:35	05/12/25 14:47	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	05/10/25 08:25	121,4500CN-E(M)	KAF
Nitrogen, Nitrate/Nitrite	0.44		mg/l	0.10	0.046	1	-	05/10/25 08:19	44,353.2	KAF
Chemical Oxygen Demand	62.	J+	mg/l	20	6.0	1	05/10/25 13:24	05/10/25 17:01	44,410.4	CVN
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/12/25 09:04	05/12/25 13:18	140,1664B	TPR
Chromium, Hexavalent	0.006	J	mg/l	0.010	0.003	1	05/10/25 06:45	05/10/25 07:09	121,3500CR-B	DMO

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-04
Client ID: DUP-050925
Sample Location: JENKINTOWN, PA

Date Collected: 05/09/25 00:00
Date Received: 05/09/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	3100	J	mg/l	50	NA	10	-	05/10/25 16:34	121,2540D	REM
Cyanide, Total	0.063	J	mg/l	0.005	0.001	1	05/11/25 11:35	05/12/25 14:48	121,4500CN-CE	JER
Cyanide, Free	0.006	J	mg/l	0.010	0.003	1	-	05/10/25 08:25	121,4500CN-E(M)	KAF
Nitrogen, Nitrate/Nitrite	1.7		mg/l	0.10	0.046	1	-	05/10/25 08:20	44,353.2	KAF
Chemical Oxygen Demand	290	J+	mg/l	20	6.0	1	05/12/25 11:00	05/12/25 13:24	44,410.4	MRW
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/12/25 09:04	05/12/25 13:21	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/10/25 06:45	05/10/25 07:10	121,3500CR-B	DMO

ANALYTICAL REPORT

Lab Number:	L2529103
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:	05/12/25

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

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2529103-01	OF002-050925	WATER	JENKINTOWN, PA	05/09/25 09:00	05/09/25
L2529103-02	OF006-050925	WATER	JENKINTOWN, PA	05/09/25 10:45	05/09/25
L2529103-03	OF009-050925	WATER	JENKINTOWN, PA	05/09/25 09:45	05/09/25
L2529103-04	DUP-050925	WATER	JENKINTOWN, PA	05/09/25 00:00	05/09/25
L2529103-05	TRIP BLANK-050925	WATER	JENKINTOWN, PA	05/08/25 00:00	05/09/25

Project Name:	SPS TECHNOLOGIES	**Lab Number:**	L2529103
Project Number:	658978	**Report Date:**	05/12/25

Case Narrative

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

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

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

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

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

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

Project Name: SPS TECHNOLOGIES **Lab Number:** L2529103
Project Number: 658978 **Report Date:** 05/12/25

Case Narrative (continued)

Report Submission

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

Sample Receipt

L2529103-01: The sample was received above the appropriate pH for the Total Metals analysis. The laboratory added HNO3 to a pH <2.

Volatile Organics by Method 624

L2529103-01D and -04D: The sample has elevated detection limits due to the dilution required by the sample matrix (cloudy, sediment).

Chemical Oxygen Demand

The WG2064961-3 MS recovery performed on L2529103-02 is outside the acceptance criteria for chemical oxygen demand (121%); however, the associated LCS recovery is within criteria. No further action was taken.

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

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 05/12/25

ORGANICS

VOLATILES

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-01 D
Client ID: OF002-050925
Sample Location: JENKINTOWN, PA

Date Collected: 05/09/25 09:00
Date Received: 05/09/25
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/12/25 11:00
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Toluene	ND		mg/l	0.0025	0.00078	2.5
2-Butanone	ND		mg/l	0.025	0.0026	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	95		60-140
Fluorobenzene	94		60-140
4-Bromofluorobenzene	96		60-140

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-02
Client ID: OF006-050925
Sample Location: JENKINTOWN, PA
Date Collected: 05/09/25 10:45
Date Received: 05/09/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/12/25 12:39
Analyst: GMT

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	90		60-140
Fluorobenzene	106		60-140
4-Bromofluorobenzene	101		60-140

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-03
Client ID: OF009-050925
Sample Location: JENKINTOWN, PA
Date Collected: 05/09/25 09:45
Date Received: 05/09/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/12/25 11:33
Analyst: GMT

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	92		60-140
Fluorobenzene	92		60-140
4-Bromofluorobenzene	99		60-140

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-04 D
Client ID: DUP-050925
Sample Location: JENKINTOWN, PA

Date Collected: 05/09/25 00:00
Date Received: 05/09/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/12/25 12:05
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Toluene	ND		mg/l	0.0025	0.00078	2.5
2-Butanone	ND		mg/l	0.025	0.0026	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	82		60-140
Fluorobenzene	91		60-140
4-Bromofluorobenzene	96		60-140

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-05
Client ID: TRIP BLANK-050925
Sample Location: JENKINTOWN, PA

Date Collected: 05/08/25 00:00
Date Received: 05/09/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/12/25 10:25
Analyst: GMT

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	98		60-140
Fluorobenzene	99		60-140
4-Bromofluorobenzene	95		60-140

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 05/12/25 09:50
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG2065580-4					
Toluene	ND		mg/l	0.0010	0.00031
2-Butanone	ND		mg/l	0.010	0.0010

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	96		60-140
Fluorobenzene	96		60-140
4-Bromofluorobenzene	93		60-140

Lab Control Sample Analysis
Batch Quality Control

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG2065580-3								
Toluene	110		-		70-130	-		41
2-Butanone	134		-		60-140	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	106				60-140
Fluorobenzene	114				60-140
4-Bromofluorobenzene	94				60-140

Matrix Spike Analysis
Batch Quality Control

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

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/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2065580-5 WG2065580-6 QC Sample: L2529103-02 Client ID: OF006-050925												
Toluene	ND	0.02	0.023	115		0.023	115		47-150	0		41
2-Butanone	ND	0.05	0.065	130		0.066	132		60-140	2		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
4-Bromofluorobenzene	97		96		60-140
Fluorobenzene	98		101		60-140
Pentafluorobenzene	90		87		60-140

METALS

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-01
Client ID: OF002-050925
Sample Location: JENKINTOWN, PA
Date Collected: 05/09/25 09:00
Date Received: 05/09/25
Field Prep: None

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8.456		mg/l	0.01000	0.00327	1	05/12/25 07:22	05/12/25 11:31	EPA 3005A	3,200.8	NTB
Chromium, Total	0.07118		mg/l	0.00100	0.00017	1	05/12/25 07:22	05/12/25 11:31	EPA 3005A	3,200.8	NTB
Copper, Total	0.1278		mg/l	0.00100	0.00038	1	05/12/25 07:22	05/12/25 11:31	EPA 3005A	3,200.8	NTB
Iron, Total	12.04		mg/l	0.05000	0.01910	1	05/12/25 07:22	05/12/25 11:31	EPA 3005A	3,200.8	NTB
Lead, Total	0.1814		mg/l	0.00100	0.00034	1	05/12/25 07:22	05/12/25 11:31	EPA 3005A	3,200.8	NTB
Nickel, Total	0.08957		mg/l	0.00200	0.00055	1	05/12/25 07:22	05/12/25 11:31	EPA 3005A	3,200.8	NTB
Zinc, Total	0.5817		mg/l	0.00500	0.00341	1	05/12/25 07:22	05/12/25 11:31	EPA 3005A	3,200.8	NTB
Total Hardness (by calculation) - Mansfield Lab											
Hardness	232.4		mg/l	0.5400	NA	1	05/12/25 07:22	05/12/25 11:31	EPA 3005A	3,200.8	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	0.071		mg/l	0.010	0.003	1		05/12/25 11:31	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0033		mg/l	0.0010	0.0002	1	05/12/25 07:22	05/12/25 11:09	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0024		mg/l	0.0020	0.0006	1	05/12/25 07:22	05/12/25 11:09	EPA 3005A	3,200.8	BLR

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-02
Client ID: OF006-050925
Sample Location: JENKINTOWN, PA
Date Collected: 05/09/25 10:45
Date Received: 05/09/25
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 - Mansfield Lab											
Aluminum, Total	0.09576		mg/l	0.01000	0.00327	1	05/12/25 07:22	05/12/25 11:17	EPA 3005A	3,200.8	NTB
Chromium, Total	0.00054	J	mg/l	0.00100	0.00017	1	05/12/25 07:22	05/12/25 11:17	EPA 3005A	3,200.8	NTB
Copper, Total	0.00717		mg/l	0.00100	0.00038	1	05/12/25 07:22	05/12/25 11:17	EPA 3005A	3,200.8	NTB
Iron, Total	0.2324		mg/l	0.05000	0.01910	1	05/12/25 07:22	05/12/25 11:17	EPA 3005A	3,200.8	NTB
Lead, Total	0.00127		mg/l	0.00100	0.00034	1	05/12/25 07:22	05/12/25 11:17	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00163	J	mg/l	0.00200	0.00055	1	05/12/25 07:22	05/12/25 11:17	EPA 3005A	3,200.8	NTB
Zinc, Total	0.02049		mg/l	0.00500	0.00341	1	05/12/25 07:22	05/12/25 11:17	EPA 3005A	3,200.8	NTB
Total Hardness (by calculation) - Mansfield Lab											
Hardness	150.9		mg/l	0.5400	NA	1	05/12/25 07:22	05/12/25 11:17	EPA 3005A	3,200.8	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		05/12/25 11:17	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	05/12/25 07:22	05/12/25 10:57	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	1	05/12/25 07:22	05/12/25 10:57	EPA 3005A	3,200.8	BLR

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-03
Client ID: OF009-050925
Sample Location: JENKINTOWN, PA
Date Collected: 05/09/25 09:45
Date Received: 05/09/25
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 - Mansfield Lab											
Aluminum, Total	0.1455		mg/l	0.01000	0.00327	1	05/12/25 07:22	05/12/25 11:35	EPA 3005A	3,200.8	NTB
Chromium, Total	0.00332		mg/l	0.00100	0.00017	1	05/12/25 07:22	05/12/25 11:35	EPA 3005A	3,200.8	NTB
Copper, Total	0.01793		mg/l	0.00100	0.00038	1	05/12/25 07:22	05/12/25 11:35	EPA 3005A	3,200.8	NTB
Iron, Total	0.9648		mg/l	0.05000	0.01910	1	05/12/25 07:22	05/12/25 11:35	EPA 3005A	3,200.8	NTB
Lead, Total	0.00509		mg/l	0.00100	0.00034	1	05/12/25 07:22	05/12/25 11:35	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00413		mg/l	0.00200	0.00055	1	05/12/25 07:22	05/12/25 11:35	EPA 3005A	3,200.8	NTB
Zinc, Total	0.06810		mg/l	0.00500	0.00341	1	05/12/25 07:22	05/12/25 11:35	EPA 3005A	3,200.8	NTB
Total Hardness (by calculation) - Mansfield Lab											
Hardness	53.04		mg/l	0.5400	NA	1	05/12/25 07:22	05/12/25 11:35	EPA 3005A	3,200.8	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		05/12/25 11:35	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0013		mg/l	0.0010	0.0002	1	05/12/25 07:22	05/12/25 11:12	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0018	J	mg/l	0.0020	0.0006	1	05/12/25 07:22	05/12/25 11:12	EPA 3005A	3,200.8	BLR

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-04
Client ID: DUP-050925
Sample Location: JENKINTOWN, PA
Date Collected: 05/09/25 00:00
Date Received: 05/09/25
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 - Mansfield Lab											
Aluminum, Total	6.732		mg/l	0.01000	0.00327	1	05/12/25 07:22	05/12/25 11:40	EPA 3005A	3,200.8	NTB
Chromium, Total	0.05667		mg/l	0.00100	0.00017	1	05/12/25 07:22	05/12/25 11:40	EPA 3005A	3,200.8	NTB
Copper, Total	0.1408		mg/l	0.00100	0.00038	1	05/12/25 07:22	05/12/25 11:40	EPA 3005A	3,200.8	NTB
Iron, Total	7.671		mg/l	0.05000	0.01910	1	05/12/25 07:22	05/12/25 11:40	EPA 3005A	3,200.8	NTB
Lead, Total	0.2312		mg/l	0.00100	0.00034	1	05/12/25 07:22	05/12/25 11:40	EPA 3005A	3,200.8	NTB
Nickel, Total	0.09669		mg/l	0.00200	0.00055	1	05/12/25 07:22	05/12/25 11:40	EPA 3005A	3,200.8	NTB
Zinc, Total	0.5873		mg/l	0.00500	0.00341	1	05/12/25 07:22	05/12/25 11:40	EPA 3005A	3,200.8	NTB
Total Hardness (by calculation) - Mansfield Lab											
Hardness	251.1		mg/l	0.5400	NA	1	05/12/25 07:22	05/12/25 11:40	EPA 3005A	3,200.8	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	0.056		mg/l	0.010	0.003	1		05/12/25 11:40	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0011		mg/l	0.0010	0.0002	1	05/12/25 07:22	05/12/25 11:16	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	1	05/12/25 07:22	05/12/25 11:16	EPA 3005A	3,200.8	BLR

Project Name: SPS TECHNOLOGIES **Lab Number:** L2529103

Project Number: 658978 **Report Date:** 05/12/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG2065322-1										
Aluminum, Total	0.00972	J	mg/l	0.01000	0.00327	1	05/12/25 07:22	05/12/25 11:07	3,200.8	NTB
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/12/25 07:22	05/12/25 11:07	3,200.8	NTB
Copper, Total	ND		mg/l	0.00100	0.00038	1	05/12/25 07:22	05/12/25 11:07	3,200.8	NTB
Iron, Total	0.02338	J	mg/l	0.05000	0.01910	1	05/12/25 07:22	05/12/25 11:07	3,200.8	NTB
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/12/25 07:22	05/12/25 11:07	3,200.8	NTB
Nickel, Total	0.00058	J	mg/l	0.00200	0.00055	1	05/12/25 07:22	05/12/25 11:07	3,200.8	NTB
Zinc, Total	ND		mg/l	0.00500	0.00341	1	05/12/25 07:22	05/12/25 11:07	3,200.8	NTB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab for sample(s): 01-04 Batch: WG2065322-1										
Hardness	ND		mg/l	0.5400	NA	1	05/12/25 07:22	05/12/25 11:07	3,200.8	NTB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-04 Batch: WG2065324-1										
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	05/12/25 07:22	05/12/25 11:36	3,200.8	BLR
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	1	05/12/25 07:22	05/12/25 11:36	3,200.8	BLR

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG2065322-2								
Aluminum, Total	97		-		85-115	-		
Chromium, Total	99		-		85-115	-		
Copper, Total	102		-		85-115	-		
Iron, Total	105		-		85-115	-		
Lead, Total	96		-		85-115	-		
Nickel, Total	104		-		85-115	-		
Zinc, Total	106		-		85-115	-		
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-04 Batch: WG2065322-2								
Hardness	97		-		85-115	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG2065324-2								
Chromium, Dissolved	106		-		85-115	-		
Nickel, Dissolved	108		-		85-115	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG2065322-3 WG2065322-4 QC Sample: L2529103-02 Client ID: OF006-050925												
Aluminum, Total	0.09576	2	1.982	94		1.978	94		70-130	0		20
Chromium, Total	0.00054J	0.2	0.1867	93		0.1850	92		70-130	1		20
Copper, Total	0.00717	0.25	0.2476	96		0.2492	97		70-130	1		20
Iron, Total	0.2324	1	1.180	95		1.182	95		70-130	0		20
Lead, Total	0.00127	0.53	0.4838	91		0.4875	92		70-130	1		20
Nickel, Total	0.00163J	0.5	0.4899	98		0.4860	97		70-130	1		20
Zinc, Total	0.02049	0.5	0.5137	99		0.5133	98		70-130	0		20
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG2065322-3 WG2065322-4 QC Sample: L2529103-02 Client ID: OF006-050925												
Hardness	150.9	66.2	204.2	80		201.1	76		70-130	2		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG2065324-3 WG2065324-4 QC Sample: L2529103-02 Client ID: OF006-050925												
Chromium, Dissolved	0.0003J	0.2	0.2049	102		0.2120	106		70-130	3		20
Nickel, Dissolved	ND	0.5	0.5140	103		0.5233	105		70-130	2		20

INORGANICS
&
MISCELLANEOUS

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-01
Client ID: OF002-050925
Sample Location: JENKINTOWN, PA

Date Collected: 05/09/25 09:00
Date Received: 05/09/25
Field Prep: None

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	1100		mg/l	20	NA	4	-	05/10/25 16:34	121,2540D	REM
Cyanide, Total	0.044		mg/l	0.005	0.001	1	05/11/25 11:35	05/12/25 14:40	121,4500CN-CE	JER
Cyanide, Free	0.006	J	mg/l	0.010	0.003	1	-	05/10/25 08:25	121,4500CN-E(M)	KAF
Nitrogen, Nitrate/Nitrite	1.6		mg/l	0.10	0.046	1	-	05/10/25 08:11	44,353.2	KAF
Chemical Oxygen Demand	280		mg/l	20	6.0	1	05/12/25 11:00	05/12/25 13:24	44,410.4	MRW
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/12/25 09:04	05/12/25 13:17	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/10/25 06:45	05/10/25 07:06	121,3500CR-B	DMO

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-02
Client ID: OF006-050925
Sample Location: JENKINTOWN, PA

Date Collected: 05/09/25 10:45
Date Received: 05/09/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	5.1		mg/l	5.0	NA	1	-	05/10/25 16:34	121,2540D	REM
Cyanide, Total	0.008		mg/l	0.005	0.001	1	05/11/25 11:35	05/12/25 14:41	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	05/10/25 08:25	121,4500CN-E(M)	KAF
Nitrogen, Nitrate/Nitrite	3.0		mg/l	0.10	0.046	1	-	05/10/25 08:12	44,353.2	KAF
Chemical Oxygen Demand	20.		mg/l	20	6.0	1	05/10/25 13:24	05/10/25 17:01	44,410.4	CVN
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/12/25 09:04	05/12/25 10:41	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/10/25 06:45	05/10/25 07:07	121,3500CR-B	DMO

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-03
Client ID: OF009-050925
Sample Location: JENKINTOWN, PA

Date Collected: 05/09/25 09:45
Date Received: 05/09/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	05/10/25 16:34	121,2540D	REM
Cyanide, Total	0.011		mg/l	0.005	0.001	1	05/11/25 11:35	05/12/25 14:47	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	05/10/25 08:25	121,4500CN-E(M)	KAF
Nitrogen, Nitrate/Nitrite	0.44		mg/l	0.10	0.046	1	-	05/10/25 08:19	44,353.2	KAF
Chemical Oxygen Demand	62.		mg/l	20	6.0	1	05/10/25 13:24	05/10/25 17:01	44,410.4	CVN
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/12/25 09:04	05/12/25 13:18	140,1664B	TPR
Chromium, Hexavalent	0.006	J	mg/l	0.010	0.003	1	05/10/25 06:45	05/10/25 07:09	121,3500CR-B	DMO

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2529103-04
Client ID: DUP-050925
Sample Location: JENKINTOWN, PA

Date Collected: 05/09/25 00:00
Date Received: 05/09/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	3100		mg/l	50	NA	10	-	05/10/25 16:34	121,2540D	REM
Cyanide, Total	0.063		mg/l	0.005	0.001	1	05/11/25 11:35	05/12/25 14:48	121,4500CN-CE	JER
Cyanide, Free	0.006	J	mg/l	0.010	0.003	1	-	05/10/25 08:25	121,4500CN-E(M)	KAF
Nitrogen, Nitrate/Nitrite	1.7		mg/l	0.10	0.046	1	-	05/10/25 08:20	44,353.2	KAF
Chemical Oxygen Demand	290		mg/l	20	6.0	1	05/12/25 11:00	05/12/25 13:24	44,410.4	MRW
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/12/25 09:04	05/12/25 13:21	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/10/25 06:45	05/10/25 07:10	121,3500CR-B	DMO

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2529103
Report Date: 05/12/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG2064862-1										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	05/10/25 06:18	44,353.2	KAF
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG2064881-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/10/25 06:45	05/10/25 07:05	121,3500CR-B	DMO
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG2064906-1										
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	05/10/25 08:25	121,4500CN-E(M)	KAF
General Chemistry - Westborough Lab for sample(s): 02-03 Batch: WG2064961-1										
Chemical Oxygen Demand	ND		mg/l	20	6.0	1	05/10/25 13:24	05/10/25 17:01	44,410.4	CVN
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG2065032-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	05/10/25 16:34	121,2540D	REM
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG2065145-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/11/25 11:35	05/12/25 14:18	121,4500CN-CE	JER
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG2065398-1										
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/12/25 09:04	05/12/25 10:38	140,1664B	TPR
General Chemistry - Westborough Lab for sample(s): 01,04 Batch: WG2065451-1										
Chemical Oxygen Demand	14.	J	mg/l	20	6.0	1	05/12/25 11:00	05/12/25 13:19	44,410.4	MRW

Lab Control Sample Analysis
Batch Quality Control

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG2064862-2								
Nitrogen, Nitrate/Nitrite	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG2064881-2								
Chromium, Hexavalent	101		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG2064906-2								
Cyanide, Free	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02-03 Batch: WG2064961-2								
Chemical Oxygen Demand	102		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG2065032-2								
Solids, Total Suspended	91		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG2065145-2								
Cyanide, Total	98		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG2065398-2								
Oil & Grease, Hem-Grav	99		-		78-114	-		18

Lab Control Sample Analysis
Batch Quality Control

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,04 Batch: WG2065451-2					
Chemical Oxygen Demand	99	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2064862-4 QC Sample: L2529103-02 Client ID: OF006-050925												
Nitrogen, Nitrate/Nitrite	3.0	4	6.4	85		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2064881-4 WG2064881-5 QC Sample: L2529103-02 Client ID: OF006-050925												
Chromium, Hexavalent	ND	0.1	0.100	100		0.101	101		85-115	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2064906-4 WG2064906-5 QC Sample: L2529103-02 Client ID: OF006-050925												
Cyanide, Free	ND	0.25	0.252	101		0.260	104		80-120	3		20
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG2064961-3 QC Sample: L2529103-02 Client ID: OF006-050925												
Chemical Oxygen Demand	20.	238	310	**121**	Q	-	-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2065145-3 WG2065145-4 QC Sample: L2529103-02 Client ID: OF006-050925												
Cyanide, Total	0.008	0.2	0.192	92		0.205	98		90-110	7		30
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2065398-4 WG2065398-5 QC Sample: L2529103-02 Client ID: OF006-050925												
Oil & Grease, Hem-Grav	ND	39.2	37	96		36	91		78-114	4		18
General Chemistry - Westborough Lab Associated sample(s): 01,04 QC Batch ID: WG2065451-4 QC Sample: L2527889-01 Client ID: MS Sample												
Chemical Oxygen Demand	160	238	380	91		-	-		90-110	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2064862-3 QC Sample: L2529103-02 Client ID: OF006-050925						
Nitrogen, Nitrate/Nitrite	3.0	3.0	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2064881-3 QC Sample: L2529103-02 Client ID: OF006-050925						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2064906-3 QC Sample: L2529103-02 Client ID: OF006-050925						
Cyanide, Free	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG2064961-4 QC Sample: L2529103-02 Client ID: OF006-050925						
Chemical Oxygen Demand	20.	20	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2065032-3 QC Sample: L2528720-02 Client ID: DUP Sample						
Solids, Total Suspended	94.	91	mg/l	3		32
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2065032-4 QC Sample: L2529103-02 Client ID: OF006-050925						
Solids, Total Suspended	5.1	6.8	mg/l	29		32
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2065145-5 QC Sample: L2529103-02 Client ID: OF006-050925						
Cyanide, Total	0.008	0.007	mg/l	14		30
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2065398-3 QC Sample: L2529103-02 Client ID: OF006-050925						
Oil & Grease, Hem-Grav	ND	ND	mg/l	NC		18
General Chemistry - Westborough Lab Associated sample(s): 01,04 QC Batch ID: WG2065451-3 QC Sample: L2527889-01 Client ID: DUP Sample						
Chemical Oxygen Demand	160	160	mg/l	0		20

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2529103-01A	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-01B	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-01C	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-01D	Plastic 250ml HNO3 preserved	D	<2	<2	3.1	Y	Absent		ARCHIVE()
L2529103-01E	Plastic 250ml HNO3 preserved	D	<2	<2	3.1	Y	Absent		ARCHIVE()
L2529103-01F	Plastic 250ml H2SO4 preserved	D	<2	<2	3.1	Y	Absent		NO3/NO2-353(28),COD-410(28)
L2529103-01G	Plastic 250ml NaOH preserved	D	>12	>12	3.1	Y	Absent		TCN-4500(14)
L2529103-01H	Plastic 950ml unpreserved	D	7	7	3.1	Y	Absent		HEXCR-3500(1),FCN(1)
L2529103-01J	Plastic 950ml unpreserved	D	7	7	3.1	Y	Absent		TSS-2540(7)
L2529103-01K	Amber 1L HCl preserved	D	NA		3.1	Y	Absent		OG-1664(28)
L2529103-01L	Amber 1L HCl preserved	D	NA		3.1	Y	Absent		OG-1664(28)
L2529103-01X	Plastic 120ml HNO3 preserved Filtrates	D	NA		3.1	Y	Absent		CR-2008S(180),NI-2008S(180)
L2529103-01Y	Plastic 120ml unpreserved split	D	NA		3.1	Y	Absent		-
L2529103-01Z	Plastic 120ml HNO3 preserved split	D	7	<2	3.1	N	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)
L2529103-02A	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-02A1	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-02A2	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-02B	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)

*Values in parentheses indicate holding time in days

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2529103-02B1	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-02B2	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-02C	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-02C1	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-02C2	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-02D	Plastic 250ml HNO3 preserved	B	<2	<2	3.8	Y	Absent		CR-2008S(180),NI-2008S(180)
L2529103-02D1	Plastic 250ml HNO3 preserved	C	<2	<2	4.1	Y	Absent		CR-2008S(180),NI-2008S(180)
L2529103-02D2	Plastic 250ml HNO3 preserved	C	<2	<2	4.1	Y	Absent		CR-2008S(180),NI-2008S(180)
L2529103-02E	Plastic 250ml HNO3 preserved	B	<2	<2	3.8	Y	Absent		AL-2008T(180),NI-2008T(180),ZN-2008T(180),HARDT-2008(180),CU-2008T(180),FE-2008T(180),PB-2008T(180),CR-2008T(180)
L2529103-02E1	Plastic 250ml HNO3 preserved	C	<2	<2	4.1	Y	Absent		AL-2008T(180),NI-2008T(180),ZN-2008T(180),HARDT-2008(180),CU-2008T(180),FE-2008T(180),PB-2008T(180),CR-2008T(180)
L2529103-02E2	Plastic 250ml HNO3 preserved	C	<2	<2	4.1	Y	Absent		AL-2008T(180),NI-2008T(180),ZN-2008T(180),HARDT-2008(180),CU-2008T(180),FE-2008T(180),PB-2008T(180),CR-2008T(180)
L2529103-02F	Plastic 250ml H2SO4 preserved	B	<2	<2	3.8	Y	Absent		NO3/NO2-353(28),COD-410(28)
L2529103-02F1	Plastic 250ml H2SO4 preserved	C	<2	<2	4.1	Y	Absent		NO3/NO2-353(28),COD-410(28)
L2529103-02F2	Plastic 250ml H2SO4 preserved	C	<2	<2	4.1	Y	Absent		NO3/NO2-353(28),COD-410(28)
L2529103-02G	Plastic 250ml NaOH preserved	B	>12	>12	3.8	Y	Absent		TCN-4500(14)
L2529103-02G1	Plastic 250ml NaOH preserved	C	>12	>12	4.1	Y	Absent		TCN-4500(14)
L2529103-02G2	Plastic 250ml NaOH preserved	C	>12	>12	4.1	Y	Absent		TCN-4500(14)
L2529103-02H	Plastic 950ml unpreserved	B	7	7	3.8	Y	Absent		HEXCR-3500(1),FCN(1)
L2529103-02H1	Plastic 950ml unpreserved	C	7	7	4.1	Y	Absent		HEXCR-3500(1),FCN(1)
L2529103-02H2	Plastic 950ml unpreserved	C	7	7	4.1	Y	Absent		HEXCR-3500(1),FCN(1)
L2529103-02J	Plastic 950ml unpreserved	B	7	7	3.8	Y	Absent		TSS-2540(7)
L2529103-02J1	Plastic 950ml unpreserved	C	7	7	4.1	Y	Absent		TSS-2540(7)
L2529103-02J2	Plastic 950ml unpreserved	C	7	7	4.1	Y	Absent		TSS-2540(7)
L2529103-02K	Amber 1L HCl preserved	B	NA		3.8	Y	Absent		OG-1664(28)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2529103-02K1	Amber 1L HCl preserved	C	NA		4.1	Y	Absent		OG-1664(28)
L2529103-02K2	Amber 1L HCl preserved	C	NA		4.1	Y	Absent		OG-1664(28)
L2529103-02L	Amber 1L HCl preserved	B	NA		3.8	Y	Absent		OG-1664(28)
L2529103-02L1	Amber 1L HCl preserved	C	NA		4.1	Y	Absent		OG-1664(28)
L2529103-02L2	Amber 1L HCl preserved	C	NA		4.1	Y	Absent		OG-1664(28)
L2529103-03A	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-03B	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-03C	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-03D	Plastic 250ml HNO3 preserved	B	<2	<2	3.8	Y	Absent		CR-2008S(180),NI-2008S(180)
L2529103-03E	Plastic 250ml HNO3 preserved	B	<2	<2	3.8	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)
L2529103-03F	Plastic 250ml H2SO4 preserved	B	<2	<2	3.8	Y	Absent		NO3/NO2-353(28),COD-410(28)
L2529103-03G	Plastic 250ml NaOH preserved	B	>12	>12	3.8	Y	Absent		TCN-4500(14)
L2529103-03H	Plastic 950ml unpreserved	B	7	7	3.8	Y	Absent		HEXCR-3500(1),FCN(1)
L2529103-03J	Plastic 950ml unpreserved	B	7	7	3.8	Y	Absent		TSS-2540(7)
L2529103-03K	Amber 1L HCl preserved	B	NA		3.8	Y	Absent		OG-1664(28)
L2529103-03L	Amber 1L HCl preserved	B	NA		3.8	Y	Absent		OG-1664(28)
L2529103-04A	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-04B	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-04C	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-04D	Plastic 250ml HNO3 preserved	D	<2	<2	3.1	Y	Absent		CR-2008S(180),NI-2008S(180)
L2529103-04E	Plastic 250ml HNO3 preserved	D	<2	<2	3.1	Y	Absent		AL-2008T(180),NI-2008T(180),ZN-2008T(180),HARDT-2008(180),CU-2008T(180),FE-2008T(180),PB-2008T(180),CR-2008T(180)
L2529103-04F	Plastic 250ml H2SO4 preserved	D	<2	<2	3.1	Y	Absent		NO3/NO2-353(28),COD-410(28)
L2529103-04G	Plastic 250ml NaOH preserved	D	>12	>12	3.1	Y	Absent		TCN-4500(14)
L2529103-04H	Plastic 950ml unpreserved	D	7	7	3.1	Y	Absent		HEXCR-3500(1),FCN(1)
L2529103-04J	Plastic 950ml unpreserved	D	7	7	3.1	Y	Absent		TSS-2540(7)

*Values in parentheses indicate holding time in days

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2529103
Report Date: 05/12/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2529103-04K	Amber 1L HCl preserved	D	NA		3.1	Y	Absent		OG-1664(28)
L2529103-04L	Amber 1L HCl preserved	D	NA		3.1	Y	Absent		OG-1664(28)
L2529103-05A	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)
L2529103-05B	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624.1-PPM(7)

Container Comments

L2529103-01D	filtration unclear - possible label swap
L2529103-01E	filtration unclear - possible label swap

*Values in parentheses indicate holding time in days

Project Name:	SPS TECHNOLOGIES	**Lab Number:**	L2529103
Project Number:	658978	**Report Date:**	05/12/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	SPS TECHNOLOGIES	**Lab Number:**	L2529103
Project Number:	658978	**Report Date:**	05/12/25

Footnotes

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

Terms

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

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

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

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

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

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).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	SPS TECHNOLOGIES	**Lab Number:**	L2529103
Project Number:	658978	**Report Date:**	05/12/25

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.)

Project Name: SPS TECHNOLOGIES **Lab Number:** L2529103

Project Number: 658978 **Report Date:** 05/12/25

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

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

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

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

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

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan 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: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

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

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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

Serial_No:05122516:36

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

Date Rec'd in Lab: 5/10/25

ALPHA Job #: L2529103 TRC

Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA
TEL: 508-822-9300
FAX: 508-822-3288

Project Information

Project Name: SPS Technologies

Project Location: Jenkintown, PA

Project #: 658978

Project Manager: Julie Acton

ALPHA Quote #:

Client Information

Client: TRC Environmental Corporation

Address: 1617 John F. Kennedy Blvd.

Suite 510, Philadelphia, PA 19103

Phone: 267-679-6728

Fax: 215-563-2339

Email: JActon@trccompanies.com

☐ These samples have been Previously analyzed by Alpha

Turn-Around Time

☐ Standard ☒ Rush (ONLY IF PRE-APPROVED)

Due Date: Time: 1-Day

Report Information Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info

PO #: 228588

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
PA	

Other Project Specific Requirements/Comments/Detection Limits:

Attorney-Client Privileged & Confidential
All VOAs in 1 Cooler
~~ER Project~~ (JS)
Dissolved Metals - Field Filtered

ANALYSIS

SAMPLE HANDLING
Filtration
☒ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Oil and Grease E1664B	Free Cyanide SM4500CN-E(M)	Total Cyanide SM4500CN-CE	Speciated Hex Chrome SM3500-CrB	Total Chromium, Nickel E200.8	Dissolved Chromium, Nickel E200.8	Total Al, Fe, Pb, Zn, Cu E200.8	Chemical Oxygn Demand E410.4	MEK, Toluene E624.1	Nitrate-Nitrite as N E353.2	Total Hardness E200.8	Total Suspended Solids SM 2540 D	Sample Specific Comments	TOTAL # BOTTLES
29103-01	OF002-050925	5/9/25	0900	SW	JS	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		11
	~~OF004~~ (JS) (JS)	~~5/9/25~~		SW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		
02	OF006-050925	5/9/25	1345	SW	JS/TT	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		
03	OF009-050925	5/9/25	0945	SW	JS	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	Perform MS/MSD	33
04	DUP-050925	5/9/25	00:00	SW	TT	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		11
05	TRIP BLANK-050925	5/8/25	—	W	—	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐		11
	~~SF-~~ (JS)			SW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		2
	~~SF-~~ (JS)			SW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
					Container Type	A	P	P	P	P	P	P	P	V	P	P	P		
					Preservative	B	A	E	A	C	A	C	-	H	-	-	-		

Relinquished By:	Date/Time	Received By:	Date/Time
James Sutyes (TRC)	5/9/25 1240	Pace	5-9-25 1240
[signature]	1830	[signature]	5-9 1830
Anthony Green	5-9	Anthony Green	MAY 0 9 2025 2215
Pace 5/10/25 0300		Pace 5/10/25 0125	
		05/10/25 0310	

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

FORM NO: 01-01(HN) (rev. 5-JAN-12)