



SPS Technologies Abington PA  
February 22, 2025 Daily Surface Water  
and Outfall Sampling Results Report

SPS Technologies

2025-02-27



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## 1. Executive Summary

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

		Upstream Offsite SW Sample Location 1	Upstream Offsite SW Sample Location 2	SW Sample Location 3	High School Road Sample Location	High School Road Sample Location Duplicate	Downstream SW Sample Location
Parameter	Units	Result	Result	Result	Result	Result	Result
Toluene	mg/L	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	mg/L	ND	ND	0.016	0.002	0.0021	ND
Chromium, Trivalent (III)	mg/L	ND	ND	ND	ND	ND	ND
Chromium, Hexavalent (VI)	mg/L	ND	ND	ND	ND	ND	ND
Total Cyanide	mg/L	0.00191	ND	0.0713	0.0319	0.0339	0.00459
Free Cyanide	mg/L	ND	ND	0.02	0.007	0.007	0.005
Oil & Grease	mg/L	ND	ND	ND	ND	ND	ND
Total Chromium	mg/L	0.0003326	0.0002828	0.0005071	0.001009	0.0004648	0.0004544
Total Nickel	mg/L	0.0009133	0.001774	0.03344	0.01997	0.01824	0.00726
Hardness	mg/L	241.3	273.2	266.7	261.6	243.7	219.9
pH	SU	7.90	7.48	7.35	7.35	7.35	6.86

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

## 2. Introduction

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

Outfall sampling commenced on February 25, 2025 as requested by PADEP, therefore, no outfall data is included in this report for February 22, 2025.

## 3. Site Background

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

## 4. Tookany Creek Offsite Investigation

### 4.1 Sampling Locations

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

### 4.2 Surface Water Sampling Field Methodology

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

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

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

This data is documented on the daily surface water sampling form attached as **Appendix A**. The in-field measurement of pH is provided on **Table 1**.

### 4.3 Sample Analysis

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

### 4.4 Surface Water Sampling Daily Results

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

- Oil & grease
- Free cyanide
- Total cyanide
- Total nickel
- Total chromium
- Hexavalent chromium (speciated)
- Methyl ethyl ketone (MEK)
- Toluene

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

### 4.5 Outfall Sampling Daily Results

On the date covered by this report, no outfall samples were collected.

## 5. Daily Quality Assurance/Quality Control and Management

### 5.1 Field Quality Assurance/Quality Control Requirements

Field personnel performed data quality control (QC) verification of field measurements in consultation with the Pennsylvania Department of Environmental Protection Sampling and Analysis Plan (PADEP,

2023). This process included reviewing calibration records and duplicate readings to ensure data accuracy. Field measurements were documented in notebooks or field information forms. pH readings are also summarized in **Table 1**.

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

## **5.2 Analytical QA/QC Samples**

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

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

## **5.3 Data Evaluation**

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

## **6. References**

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

## FIGURES & TABLES & APPENDICES





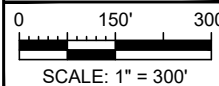
**SOURCE**  
NEARMAP IMAGERY, JUNE 16, 2024.

**LEGEND**  
 SW = SURFACE WATER  
 ● SURFACE WATER SAMPLE LOCATION  
 ● APPROXIMATE OUTFALL SAMPLE LOCATION



WSP USA Inc.  
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PROJECTION / DATUM: PA83-SF  
 PREPARED BY: PJC  
 CHECKED BY: KM  
 REVIEWED BY: TK



CLIENT

PROJECT

**SURFACE WATER AND  
OUTFALL SAMPLING  
RESULTS REPORT**

TITLE

**SURFACE WATER AND  
OUTFALL SAMPLE LOCATIONS**

PROJECT NO.: US0043268.2150  
 REVISION NO.: 0  
 DATE: FEBRUARY 2025  
 FIGURE NO.:

**1**





**SOURCE**  
 GEOMAP IMAGERY, 2025.

**LEGEND**  
 SW = SURFACE WATER  
 ● SURFACE WATER SAMPLE LOCATION



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PROJECTION / DATUM: PA83-SF  
 PREPARED BY: PJC  
 CHECKED BY: KM  
 REVIEWED BY: TK  
 SCALE: 1" = 3,000'

CLIENT

PROJECT  
**SURFACE WATER AND  
 OUTFALL SAMPLING  
 RESULTS REPORT**

TITLE  
**OFF-SITE SURFACE WATER SAMPLE LOCATIONS**

PROJECT NO.: US0043268.2150  
 REVISION NO.: 0  
 DATE: FEBRUARY 2025  
 FIGURE NO.:



**Table 1**  
**Surface Water Analytical Results**  
**Daily Surface Water Sampling Results Report**  
**SPS Technologies**  
**Jenkintown, Pennsylvania**

Sample Location	Upstream Offsite SW Sample Location 1			Upstream Offsite SW Sample Location 2			SW Sample Location 3			High School Road Sample Location			High School Road Sample Location Duplicate			Downstream SW Sample Location			
	Field Sample ID	Lab Sample ID	Sampling Date	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	
Matrix	Water			Water			Water			Water			Water			Water			
<b>Parameter</b>	<b>Units</b>																		
<b>Volatile Organic Compounds</b>																			
Toluene	mg/L	ND		0.001	ND		0.001	ND		0.001	ND		0.001	ND		0.001	ND		0.001
2-Butanone (MEK)	mg/L	ND		0.01	ND		0.01	0.016		0.01	0.002	J	0.01	0.0021	J	0.01	ND		0.01
<b>General Chemistry</b>																			
Chromium, Trivalent (III)	mg/L	ND	UJ	0.01	ND	UJ	0.01	ND	UJ	0.01	ND	UJ	0.01	ND	UJ	0.01	ND	UJ	0.01
Chromium, Hexavalent (VI)	mg/L	ND	R	0.01	ND	R	0.01	ND	R	0.01	ND	R	0.01	ND	R	0.01	ND	R	0.01
Total Cyanide	mg/L	0.00191	J	0.005	ND		0.005	0.0713		0.005	0.0319		0.005	0.0339		0.005	0.00459	J	0.005
Free Cyanide	mg/L	ND	R	0.01	ND	R	0.01	0.02	J	0.01	0.007	J	0.01	0.007	J	0.01	0.005	J	0.01
Oil & Grease	mg/L	ND		3.6	ND		4	ND		4	ND		4.4	ND		4	ND		4
<b>Total Metals</b>																			
Total Chromium	mg/L	0.0003326	J	0.001	0.0002828	J	0.001	0.0005071	J	0.001	0.001009		0.001	0.0004648	J	0.001	0.0004544	J	0.001
Total Nickel	mg/L	0.0009133	J	0.002	0.001774	J	0.002	0.03344		0.002	0.01997		0.002	0.01824		0.002	0.00726		0.002
<b>Total Hardness</b>																			
Hardness	mg/L	241.3		0.54	273.2		0.54	266.7		0.54	261.6		0.54	243.7		0.54	219.9		0.54
<b>Field Parameters</b>																			
pH <sup>1</sup>	SU	7.90			7.48			7.35			7.35			7.35			6.86		

**Notes:**

- 1.) Field measurements for pH were performed by WSP field personnel prior to sample collection using a Horiba U-52. Field measurements were not validated.
- 2.) Field duplicate sample FDSW\_022225 was collected from the High School Road SW4 sampling location.

**Abbreviations:**

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

**Qualifiers:**

J - Estimated Result  
 R - Rejected Result  
 UJ - Non-Detect Result, RL is Estimated





**APPENDIX A – DAILY SURFACE WATER SAMPLING LOG**



Attorney-Client Privileged & Confidential

**SURFACE WATER SAMPLE FIELD INFORMATION FORM**

Site: SPS  
 Location: Asington  
 Project Number: \_\_\_\_\_  
 Meter/Type/Serial #: Horiba U-52 # S/N: SV5R3376  
 Meter Calibrated @: 1030  
 Flow Meter: 1950 Meter # SN- Visual Flow rate fast (stop watch + yards tick) + bath creeks / confluence + wading throughout  
 Sampling Date/Time: 2/22/25 10:50  
 Sampler(s): SET VVR MS G  
 Sampling Device: Telesonic Dipper pole + Sample Lid  
 Sample Characteristics: Class No odor  
 Analytical Parameters: \_\_\_\_\_

Weather Conditions: Clear 34-38°F

Additional Notes: MS/MSD @ SW5.022225  
SW-3: Lewis Env. actively setting up beams around confluence + wading throughout  
both creeks / confluence upstreams + downstream  
@ confluence heavily disturbing  
confluence + creek bed.

STATION / SAMPLE	STATION DESCRIPTION (stream/lake/river)	DATE mm/dd/yy	TIME hr:min	TOTAL	SAMPLE	WATER		pH	COND mS/cm	ORP mV	TURBIDITY NTU	DO mg/L	VELOCITY ft/sec
				DEPTH inches	DEPTH inches	TEMP Celsius	SU						
Sample Characteristics: <u>Clear No odor</u>													
SW4-022225	Creek	2/22/25	12:20	~72	~36	4.89	7.35	0.896	4233	0.0	11.12	1.5	1.5
Sample Characteristics: <u>Clear No odor</u>													
SW3-022225	Creek	2/22/25	13:30	21.5	10.75	8.50	7.35	0.786	4168	0.0	10.95	Negligible	
Sample Characteristics: <u>Clear no odor</u>													
SW2-022225	Creek	2/22/25	14:10	4	28.92	8.99	7.90	0.786	+189	0.0	11.17	~1	
Sample Characteristics: <u>Clear no odor</u>													
Staff Gauge-Reading													
SW1-022225	Creek	2/22/25	14:45	13.5	6.5	7.74	7.98	0.977	209	0.0	12.08	~1	

*John Lee*  
*ATL*  
*Andrew Williamson*





## **APPENDIX B – DATA VALIDATION REPORT**



**QA LEVEL 2A - DATA VERIFICATION/DATA VALIDATION CHECKLIST**

---

**Project Name:** SPS Technologies

**Project Number/Phase/Task:** US0043268.2150-US-SPS Client Support. Task 01

**Reviewing Company:** WSP USA

**Project Manager:** Tovah Karl

**Data Evaluator:** Julia Campbell

**Data Evaluation Date:** February 25, 2025

**Checked by:** Julie Lehrman

**Review Date:** February 26, 2025

**Laboratory:** Pace Analytical LLC

**Lab SDG #:** L2509865

**Matrix:**  Aqueous    Soil    Sediment    Waste    Air    Other:

**Analytical Methods:** See Table B-1

**Sample Information:** See Table B-1

**Work Plan or QAPP:** NA

**Data Validation Guidance:**

USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (Nov. 2020)

USEPA NFG for Inorganic Superfund Methods Data Review (Nov. 2020)

<b>COC and Sample Receipt</b>	<b>YES</b>	<b>NO</b>	<b>NA</b>	<b>COMMENT</b>
a) COC complete and correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) COC documents release of custody (signed and dated)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c) Field QC types provided (note types)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TB; see Table 1
d) Did the cooler contents match the COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
e) Were samples received in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
f) Were cooler temperatures within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

<b>Data Package Information</b>	<b>YES</b>	<b>NO</b>	<b>NA</b>	<b>COMMENT</b>
a) Laboratory name and location documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) All samples on COC reported in data package?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c) Requested analytical methods used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		See Note 1
d) Requested sample preparation methods used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e) Requested analyte list reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
f) Requested units reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
g) Did the laboratory define the qualifiers used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
h) Data package contains all information necessary to complete the data quality review?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

<b>Analytical Assessment</b>	<b>YES</b>	<b>NO</b>	<b>NA</b>	<b>COMMENT</b>
a) Solid samples reported on a dry-weight basis?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b) Were solid samples percent moisture criteria acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c) Were sample dilutions noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		



<b>Analytical Assessment</b>	<b>YES</b>	<b>NO</b>	<b>NA</b>	<b>COMMENT</b>
d) Were detected concentrations less than the QL qualified by the laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
e) Were detected concentrations above the calibration range reported by the laboratory?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
f) Did the laboratory satisfy the requested sensitivity requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

<b>Laboratory Case Narrative</b>	<b>YES</b>	<b>NO</b>	<b>NA</b>	<b>COMMENT</b>
a) Do the laboratory narrative or laboratory qualifiers indicate deficiencies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Notes below
b) Were all deficiencies noted in the laboratory qualifiers or narrative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

<b>Sample Preservation and Holding Time</b>	<b>YES</b>	<b>NO</b>	<b>NA</b>	<b>COMMENT</b>
a) Were samples properly preserved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) Were holding times met for sample preparation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Were holding times met for sample analysis?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		See Note 2,3

<b>Blanks</b>	<b>YES</b>	<b>NO</b>	<b>NA</b>	<b>COMMENTS</b>
a) Were blanks analyzed at the appropriate frequency?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) Were any analytes detected in the associated preparation/method blank?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
c) Were any analytes detected in the associated trip blanks?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d) Were any analytes detected in the associated field or equipment/rinsate blanks?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e) Were any analytes detected in the associated storage blanks?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

<b>Surrogates or Deuterated Monitoring Compounds</b>	<b>YES</b>	<b>NO</b>	<b>NA</b>	<b>COMMENTS</b>
a) Were the correct surrogate compounds added to each sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b) Were surrogate recoveries within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) If not, were samples analyzed at dilution factors of 20x or greater?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

<b>LCS/LCSD</b>	<b>YES</b>	<b>NO</b>	<b>NA</b>	<b>COMMENTS</b>
a) Were LCS/LCSD reported at the appropriate frequency?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) Were proper analytes included in the LCS/LCSD?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c) Were LCS/LCSD recoveries within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
d) Were RPD values within control limits (if LCSD was analyzed)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

<b>MS/MSDs</b>	<b>YES</b>	<b>NO</b>	<b>NA</b>	<b>COMMENTS</b>
a) Were project-specific MS (and MSD) reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		SW5_022225
b) Were proper analytes reported in the MS/MSD?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

MS/MSDs	YES	NO	NA	COMMENTS
c) Were project-specific MS/MSD recoveries within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d) If not, were sample concentrations greater than 4x the spiking concentration?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e) Was the RPD or absolute difference within control limits (if project-specific MSD analyzed)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f) Were project-specific post-digestion spikes analyzed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g) Were project-specific post-digestion spike recoveries within control limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Duplicates	YES	NO	NA	COMMENTS
a) Were project-specific laboratory duplicates reported?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b) Was laboratory duplicate RPD or absolute difference criteria acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c) Were field duplicates reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SW4_022225/ FDSW_022225
d) Was field duplicate RPD or absolute difference criteria acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	30% RPD for results >5x RL
ICP Serial Dilution (SD)	YES	NO	NA	COMMENTS
a) Was project-specific ICP SD data provided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b) Were project-specific ICP SD within acceptable criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Overall Evaluation	YES	NO	NA	COMMENTS
a) Were there any other technical problems not previously addressed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b) Were data acceptable and usable, except where noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**Comments/Notes:**

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

1. The chain of custody requested the analysis of total chromium and total nickel by method 6020. After discussion with the client and the laboratory, the analytical method for metals analysis was changed to E200.8. No further action is required other than to note.
2. The holding time for the analysis of hexavalent chromium is 24 hours. The samples were analyzed more than 48 hours after sampling. Using professional judgement, when non-detect results were analyzed more than 2x outside the required holding times, non-detect results were rejected (R). Trivalent chromium is calculated from the difference between total chromium and hexavalent chromium. Using professional judgement, the trivalent



chromium results were qualified as estimated (UJ) due to the uncertainty in the hexavalent chromium determination.

3. The laboratory performs the analysis of free cyanide from unpreserved samples via method SM4500CN-E(M). The holding time for the analysis of unpreserved samples for free cyanide is 24 hours. The samples were analyzed more than 48 hours after sampling. Using professional judgement, when non-detect results were analyzed more than 2x outside the required holding times, non-detect results were rejected (R) and detected results were qualified as estimated (J).

**Data Qualification:** See Table B-2

**Table B-1  
Sample Collection and Analysis Summary  
SPS Technologies  
Jenkintown, PA**

Laboratory Job	Field Identification	Matrix	Lab Identification	QC Samples	Collection Date	Analyses/Parameters							
						MEK and Toluene	Oil and Grease	Total Metals	Total Hardness	Trivalent Chromium	Free Cyanide	Total Cyanide	Hexavalent Chromium
						E624.1	E1664B	200.8	200.8	SM3500	SM4500CN-E(M)	SM4500CN-CE	SM3500CR-B
L2509865	SW5 022225	WS	L2509865-01	MS/MSD	2/22/2025	X	X	X	X	X	X	X	X
L2509865	SW4 022225	WS	L2509865-02	--	2/22/2025	X	X	X	X	X	X	X	X
L2509865	FDSW 022225	WS	L2509865-03	FD (SW4 022225)	2/22/2025	X	X	X	X	X	X	X	X
L2509865	SW3 022225	WS	L2509865-04	--	2/22/2025	X	X	X	X	X	X	X	X
L2509865	SW2 022225	WS	L2509865-05	--	2/22/2025	X	X	X	X	X	X	X	X
L2509865	SW1 022225	WS	L2509865-06	--	2/22/2025	X	X	X	X	X	X	X	X
L2509865	TBSW 022225	WQ	L2509865-07	TB	2/22/2025	X	--	--	--	--	--	--	X

**Notes:**

- 1) All analyses performed by Pace Analytical Westborough Facility, except for metals, hardness, and trivalent chromium which were performed at Pace Analytical Mansfield Lab.
- 2) Total Metals include: chromium and nickel.

**Abbreviations:**

- MEK: methyl ethyl ketone
- MS/MSD: Matrix Spike/Matrix Spike Duplicate
- QC: Quality Control
- TB: Trip Blank
- WS: Surface Water
- WQ: Quality Control Water



**Table B-2**  
**Qualifier Summary Table**  
**SPS Technologies**  
**Jenkintown, PA**

<b>Laboratory Job</b>	<b>Sample Name</b>	<b>Analyte</b>	<b>New Result</b>	<b>New MDL</b>	<b>New RL</b>	<b>Qualifier</b>	<b>Reason</b>
L2509865	SW5_022225	Chromium, Hexavalent	--	--	--	R	Analysis Holding Time: exceeds criteria by more than 2x, sample non-detect
L2509865	SW4_022225	Chromium, Hexavalent	--	--	--	R	Analysis Holding Time: exceeds criteria by more than 2x, sample non-detect
L2509865	FDSW_022225	Chromium, Hexavalent	--	--	--	R	Analysis Holding Time: exceeds criteria by more than 2x, sample non-detect
L2509865	SW3_022225	Chromium, Hexavalent	--	--	--	R	Analysis Holding Time: exceeds criteria by more than 2x, sample non-detect
L2509865	SW2_022225	Chromium, Hexavalent	--	--	--	R	Analysis Holding Time: exceeds criteria by more than 2x, sample non-detect
L2509865	SW1_022225	Chromium, Hexavalent	--	--	--	R	Analysis Holding Time: exceeds criteria by more than 2x, sample non-detect
L2509865	SW5_022225	Chromium, Trivalent	--	--	--	UJ	Qualified due to uncertainty in hexavalent chromium analysis
L2509865	SW4_022225	Chromium, Trivalent	--	--	--	UJ	Qualified due to uncertainty in hexavalent chromium analysis
L2509865	FDSW_022225	Chromium, Trivalent	--	--	--	UJ	Qualified due to uncertainty in hexavalent chromium analysis
L2509865	SW3_022225	Chromium, Trivalent	--	--	--	UJ	Qualified due to uncertainty in hexavalent chromium analysis
L2509865	SW2_022225	Chromium, Trivalent	--	--	--	UJ	Qualified due to uncertainty in hexavalent chromium analysis
L2509865	SW1_022225	Chromium, Trivalent	--	--	--	UJ	Qualified due to uncertainty in hexavalent chromium analysis
L2509865	SW5_022225	Cyanide, Free	--	--	--	J	Analysis Holding Time: exceeds criteria by more than 2x
L2509865	SW4_022225	Cyanide, Free	--	--	--	J	Analysis Holding Time: exceeds criteria by more than 2x
L2509865	FDSW_022225	Cyanide, Free	--	--	--	J	Analysis Holding Time: exceeds criteria by more than 2x
L2509865	SW3_022225	Cyanide, Free	--	--	--	J	Analysis Holding Time: exceeds criteria by more than 2x
L2509865	SW2_022225	Cyanide, Free	--	--	--	R	Analysis Holding Time: exceeds criteria by more than 2x, sample non-detect
L2509865	SW1_022225	Cyanide, Free	--	--	--	R	Analysis Holding Time: exceeds criteria by more than 2x, sample non-detect

**Table B-2  
Qualifier Summary Table  
SPS Technologies  
Jenkintown, PA**

<i>Laboratory Job</i>	<i>Sample Name</i>	<i>Analyte</i>	<i>New Result</i>	<i>New MDL</i>	<i>New RL</i>	<i>Qualifier</i>	<i>Reason</i>
L2509865	All samples	--	--		--	--	Laboratory applied U-qualifiers indicating non-detect results and J-qualifiers indicating results below the reporting limit are retained unless other qualifications are indicated in this table. All other laboratory qualifiers are removed.

**Abbreviations:**

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

**Qualifiers:**

J: Estimated Result  
 R: Rejected  
 UJ: Non-Detect Result, RL is Estimated



**APPENDIX C – LABORATORY ANALYTICAL REPORT**



## ANALYTICAL REPORT

Lab Number:	L2509865
Client:	WSP USA Inc. 10 Lake Center Drive Suite 205 Marlton, NJ 08053
ATTN:	Julie Lehrman
Phone:	(856) 793-2005
Project Name:	SPS TECHNOLOGIES
Project Number:	US0043268.2150
Report Date:	02/26/25

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

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

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





**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

<b>Lab Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2509865-01	SW5_022225	WATER	JENKINTOWN, PA	02/22/25 10:50	02/22/25
L2509865-02	SW4_022225	WATER	JENKINTOWN, PA	02/22/25 12:20	02/22/25
L2509865-03	FDSW_022225	WATER	JENKINTOWN, PA	02/22/25 00:00	02/22/25
L2509865-04	SW3_022225	WATER	JENKINTOWN, PA	02/22/25 13:20	02/22/25
L2509865-05	SW2_022225	WATER	JENKINTOWN, PA	02/22/25 14:10	02/22/25
L2509865-06	SW1_022225	WATER	JENKINTOWN, PA	02/22/25 14:45	02/22/25
L2509865-07	TBSW_022225	WATER	JENKINTOWN, PA	02/22/25 00:00	02/22/25

**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

### Case Narrative

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

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

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

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

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

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

---



**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

### Case Narrative (continued)

#### Report Revision

February 26, 2025 (rev2): The project number has been updated.

February 26, 2025: This report includes the results of the Hardness analysis performed on L2509865-01 through -06.

#### Report Submission

February 25, 2025: This final report includes the results of all requested analyses.

February 25, 2025: This is a preliminary report.

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

#### Cyanide, Free

L2509865-01 through -06: The sample was analyzed with the method required holding time exceeded.

#### Chromium, Hexavalent

L2509865-01 through -06: The sample was analyzed with the method required holding time exceeded.

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:

 Cristin Walker

Title: Technical Director/Representative

Date: 02/26/25

# ORGANICS



# VOLATILES

**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

**SAMPLE RESULTS**

Lab ID: L2509865-01  
 Client ID: SW5\_022225  
 Sample Location: JENKINTOWN, PA

Date Collected: 02/22/25 10:50  
 Date Received: 02/22/25  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 128,624.1  
 Analytical Date: 02/24/25 18:32  
 Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Volatile Organics by GC/MS - Westborough Lab						
--	--	--	--	--	--	--

Toluene	ND		ug/l	1.0	0.31	1
2-Butanone	ND		ug/l	10	1.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	84		60-140
Fluorobenzene	91		60-140
4-Bromofluorobenzene	92		60-140

**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

**SAMPLE RESULTS**

Lab ID: L2509865-02  
 Client ID: SW4\_022225  
 Sample Location: JENKINTOWN, PA

Date Collected: 02/22/25 12:20  
 Date Received: 02/22/25  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 128,624.1  
 Analytical Date: 02/24/25 16:15  
 Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Toluene	ND		ug/l	1.0	0.31	1
2-Butanone	2.0	J	ug/l	10	1.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	84		60-140
Fluorobenzene	95		60-140
4-Bromofluorobenzene	94		60-140



**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

**SAMPLE RESULTS**

Lab ID: L2509865-03  
 Client ID: FDSW\_022225  
 Sample Location: JENKINTOWN, PA

Date Collected: 02/22/25 00:00  
 Date Received: 02/22/25  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 128,624.1  
 Analytical Date: 02/24/25 15:40  
 Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Toluene	ND		ug/l	1.0	0.31	1
2-Butanone	2.1	J	ug/l	10	1.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	80		60-140
Fluorobenzene	94		60-140
4-Bromofluorobenzene	95		60-140

**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

**SAMPLE RESULTS**

Lab ID: L2509865-04  
 Client ID: SW3\_022225  
 Sample Location: JENKINTOWN, PA

Date Collected: 02/22/25 13:20  
 Date Received: 02/22/25  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 128,624.1  
 Analytical Date: 02/24/25 16:49  
 Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Toluene	ND		ug/l	1.0	0.31	1
2-Butanone	16		ug/l	10	1.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	83		60-140
Fluorobenzene	93		60-140
4-Bromofluorobenzene	93		60-140

**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

**SAMPLE RESULTS**

Lab ID: L2509865-05  
 Client ID: SW2\_022225  
 Sample Location: JENKINTOWN, PA

Date Collected: 02/22/25 14:10  
 Date Received: 02/22/25  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 128,624.1  
 Analytical Date: 02/24/25 17:23  
 Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Volatile Organics by GC/MS - Westborough Lab						
Toluene	ND		ug/l	1.0	0.31	1
2-Butanone	ND		ug/l	10	1.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
-----------	------------	-----------	---------------------

Pentafluorobenzene	81		60-140
--------------------	----	--	--------

Fluorobenzene	93		60-140
---------------	----	--	--------

4-Bromofluorobenzene	94		60-140
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**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

**SAMPLE RESULTS**

Lab ID: L2509865-06  
 Client ID: SW1\_022225  
 Sample Location: JENKINTOWN, PA

Date Collected: 02/22/25 14:45  
 Date Received: 02/22/25  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 128,624.1  
 Analytical Date: 02/24/25 17:57  
 Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Volatile Organics by GC/MS - Westborough Lab						
--	--	--	--	--	--	--

Toluene	ND		ug/l	1.0	0.31	1
2-Butanone	ND		ug/l	10	1.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	83		60-140
Fluorobenzene	92		60-140
4-Bromofluorobenzene	94		60-140

**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

**SAMPLE RESULTS**

Lab ID: L2509865-07  
 Client ID: TBSW\_022225  
 Sample Location: JENKINTOWN, PA

Date Collected: 02/22/25 00:00  
 Date Received: 02/22/25  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 128,624.1  
 Analytical Date: 02/24/25 15:06  
 Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Toluene	ND		ug/l	1.0	0.31	1
2-Butanone	ND		ug/l	10	1.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	83		60-140
Fluorobenzene	94		60-140
4-Bromofluorobenzene	92		60-140

**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 128,624.1  
Analytical Date: 02/24/25 11:51  
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG2033834-4					
Toluene	ND		ug/l	1.0	0.31
2-Butanone	ND		ug/l	10	1.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	85		60-140
Fluorobenzene	97		60-140
4-Bromofluorobenzene	91		60-140



**Lab Control Sample Analysis**  
Batch Quality Control

Project Name: SPS TECHNOLOGIES

Lab Number: L2509865

Project Number: US0043268.2150

Report Date: 02/26/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG2033834-3								
Toluene	100		-		70-130	-		41
2-Butanone	102		-		60-140	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	90				60-140
Fluorobenzene	102				60-140
4-Bromofluorobenzene	91				60-140

**Matrix Spike Analysis**  
**Batch Quality Control**

**Project Name:** SPS TECHNOLOGIES

**Lab Number:** L2509865

**Project Number:** US0043268.2150

**Report Date:** 02/26/25

<b>Parameter</b>	<b>Native Sample</b>	<b>MS Added</b>	<b>MS Found</b>	<b>MS %Recovery</b>	<b>Qual</b>	<b>MSD Found</b>	<b>MSD %Recovery</b>	<b>Qual</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG2033834-5 WG2033834-6 QC Sample: L2509865-01 Client ID: SW5_022225												
Toluene	ND	20	21	105		20	100		47-150	5		41
2-Butanone	ND	50	54	108		53	106		60-140	2		30

<b>Surrogate</b>	<b>MS % Recovery</b>	<b>Qualifier</b>	<b>MSD % Recovery</b>	<b>Qualifier</b>	<b>Acceptance Criteria</b>
4-Bromofluorobenzene	90		90		60-140
Fluorobenzene	101		95		60-140
Pentafluorobenzene	84		84		60-140

# METALS





**Project Name:** SPS TECHNOLOGIES**Lab Number:** L2509865**Project Number:** US0043268.2150**Report Date:** 02/26/25**SAMPLE RESULTS**

Lab ID: L2509865-01

Date Collected: 02/22/25 10:50

Client ID: SW5\_022225

Date Received: 02/22/25

Sample Location: JENKINTOWN, PA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Chromium, Total	0.4544	J	ug/l	1.000	0.1780	1	02/24/25 13:08	02/25/25 08:19	EPA 3005A	3,200.8	NTB
Nickel, Total	7.260		ug/l	2.000	0.5560	1	02/24/25 13:08	02/25/25 08:19	EPA 3005A	3,200.8	NTB
<b>Total Hardness (by calculation) - Mansfield Lab</b>											
Hardness	219900		ug/l	540.0	NA	1	02/24/25 13:08	02/25/25 08:19	EPA 3005A	3,200.8	NTB
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	ND		ug/l	10.0	3.00	1		02/25/25 08:19	NA	107,-	



**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

**SAMPLE RESULTS**

Lab ID: L2509865-02  
 Client ID: SW4\_022225  
 Sample Location: JENKINTOWN, PA

Date Collected: 02/22/25 12:20  
 Date Received: 02/22/25  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Chromium, Total	1.009		ug/l	1.000	0.1780	1	02/24/25 13:08	02/25/25 08:33	EPA 3005A	3,200.8	NTB
Nickel, Total	19.97		ug/l	2.000	0.5560	1	02/24/25 13:08	02/25/25 08:33	EPA 3005A	3,200.8	NTB
<b>Total Hardness (by calculation) - Mansfield Lab</b>											
Hardness	261600		ug/l	540.0	NA	1	02/24/25 13:08	02/25/25 08:33	EPA 3005A	3,200.8	NTB
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	ND		ug/l	10.0	3.00	1		02/25/25 08:33	NA	107,-	



**Project Name:** SPS TECHNOLOGIES**Lab Number:** L2509865**Project Number:** US0043268.2150**Report Date:** 02/26/25**SAMPLE RESULTS**

Lab ID: L2509865-03

Date Collected: 02/22/25 00:00

Client ID: FDSW\_022225

Date Received: 02/22/25

Sample Location: JENKINTOWN, PA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Chromium, Total	0.4648	J	ug/l	1.000	0.1780	1	02/24/25 13:08	02/25/25 08:37	EPA 3005A	3,200.8	NTB
Nickel, Total	18.24		ug/l	2.000	0.5560	1	02/24/25 13:08	02/25/25 08:37	EPA 3005A	3,200.8	NTB
<b>Total Hardness (by calculation) - Mansfield Lab</b>											
Hardness	243700		ug/l	540.0	NA	1	02/24/25 13:08	02/25/25 08:37	EPA 3005A	3,200.8	NTB
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	ND		ug/l	10.0	3.00	1		02/25/25 08:37	NA	107,-	



**Project Name:** SPS TECHNOLOGIES**Lab Number:** L2509865**Project Number:** US0043268.2150**Report Date:** 02/26/25**SAMPLE RESULTS**

Lab ID: L2509865-04

Date Collected: 02/22/25 13:20

Client ID: SW3\_022225

Date Received: 02/22/25

Sample Location: JENKINTOWN, PA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Chromium, Total	0.5071	J	ug/l	1.000	0.1780	1	02/24/25 13:08	02/25/25 08:42	EPA 3005A	3,200.8	NTB
Nickel, Total	33.44		ug/l	2.000	0.5560	1	02/24/25 13:08	02/25/25 08:42	EPA 3005A	3,200.8	NTB
<b>Total Hardness (by calculation) - Mansfield Lab</b>											
Hardness	266700		ug/l	540.0	NA	1	02/24/25 13:08	02/25/25 08:42	EPA 3005A	3,200.8	NTB
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	ND		ug/l	10.0	3.00	1		02/25/25 08:42	NA	107,-	





**Project Name:** SPS TECHNOLOGIES**Lab Number:** L2509865**Project Number:** US0043268.2150**Report Date:** 02/26/25**SAMPLE RESULTS**

Lab ID: L2509865-05

Date Collected: 02/22/25 14:10

Client ID: SW2\_022225

Date Received: 02/22/25

Sample Location: JENKINTOWN, PA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Chromium, Total	0.3326	J	ug/l	1.000	0.1780	1	02/24/25 13:08	02/25/25 08:47	EPA 3005A	3,200.8	NTB
Nickel, Total	0.9133	J	ug/l	2.000	0.5560	1	02/24/25 13:08	02/25/25 08:47	EPA 3005A	3,200.8	NTB
<b>Total Hardness (by calculation) - Mansfield Lab</b>											
Hardness	241300		ug/l	540.0	NA	1	02/24/25 13:08	02/25/25 08:47	EPA 3005A	3,200.8	NTB
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	ND		ug/l	10.0	3.00	1		02/25/25 08:47	NA	107,-	



**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

**SAMPLE RESULTS**

Lab ID: L2509865-06  
 Client ID: SW1\_022225  
 Sample Location: JENKINTOWN, PA

Date Collected: 02/22/25 14:45  
 Date Received: 02/22/25  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Chromium, Total	0.2828	J	ug/l	1.000	0.1780	1	02/24/25 13:08	02/25/25 08:51	EPA 3005A	3,200.8	NTB
Nickel, Total	1.774	J	ug/l	2.000	0.5560	1	02/24/25 13:08	02/25/25 08:51	EPA 3005A	3,200.8	NTB
<b>Total Hardness (by calculation) - Mansfield Lab</b>											
Hardness	273200		ug/l	540.0	NA	1	02/24/25 13:08	02/25/25 08:51	EPA 3005A	3,200.8	NTB
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	ND		ug/l	10.0	3.00	1		02/25/25 08:51	NA	107,-	



**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

## 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): 01-06 Batch: WG2033384-1									
Chromium, Total	ND	ug/l	1.000	0.1780	1	02/24/25 13:08	02/25/25 08:09	3,200.8	NTB
Nickel, Total	ND	ug/l	2.000	0.5560	1	02/24/25 13:08	02/25/25 08:09	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): 01-06 Batch: WG2033384-1									
Hardness	ND	ug/l	540.0	NA	1	02/24/25 13:08	02/25/25 08:09	3,200.8	NTB

### Prep Information

Digestion Method: EPA 3005A



**Lab Control Sample Analysis**  
**Batch Quality Control**

**Project Name:** SPS TECHNOLOGIES

**Project Number:** US0043268.2150

**Lab Number:** L2509865

**Report Date:** 02/26/25

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
<b>Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG2033384-2</b>								
Chromium, Total	105		-		85-115	-		
Nickel, Total	110		-		85-115	-		
<b>Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-06 Batch: WG2033384-2</b>								
Hardness	108		-		85-115	-		



### Matrix Spike Analysis Batch Quality Control

**Project Name:** SPS TECHNOLOGIES

**Lab Number:** L2509865

**Project Number:** US0043268.2150

**Report Date:** 02/26/25

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): 01-06 QC Batch ID: WG2033384-3 WG2033384-4 QC Sample: L2509865-01 Client ID: SW5_022225												
Chromium, Total	0.4544J	200	193.7	97		198.2	99		70-130	2		20
Nickel, Total	7.260	500	535.8	106		536.7	106		70-130	0		20
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG2033384-3 WG2033384-4 QC Sample: L2509865-01 Client ID: SW5_022225												
Hardness	219900	66200	294200	112		298300	118		70-130	1		20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

**SAMPLE RESULTS**

**Lab ID:** L2509865-01  
**Client ID:** SW5\_022225  
**Sample Location:** JENKINTOWN, PA

**Date Collected:** 02/22/25 10:50  
**Date Received:** 02/22/25  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Cyanide, Total	4.59	J	ug/l	5.00	1.80	1	02/25/25 12:00	02/25/25 15:13	121,4500CN-CE	JER
Cyanide, Free	5.00	J	ug/l	10.0	3.50	1	-	02/25/25 05:15	121,4500CN-E(M)	KAF
Oil & Grease, Hem-Grav	ND		ug/l	4000	4000	1	02/24/25 22:22	02/25/25 01:07	140,1664B	IYM
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	02/24/25 17:45	02/24/25 18:28	121,3500CR-B	AAS



**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

**SAMPLE RESULTS**

**Lab ID:** L2509865-02  
**Client ID:** SW4\_022225  
**Sample Location:** JENKINTOWN, PA

**Date Collected:** 02/22/25 12:20  
**Date Received:** 02/22/25  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Cyanide, Total	31.9		ug/l	5.00	1.80	1	02/25/25 01:40	02/25/25 11:23	121,4500CN-CE	JER
Cyanide, Free	7.00	J	ug/l	10.0	3.50	1	-	02/25/25 05:15	121,4500CN-E(M)	KAF
Oil & Grease, Hem-Grav	ND		ug/l	4400	4400	1.1	02/24/25 22:22	02/25/25 00:49	140,1664B	IYM
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	02/24/25 17:45	02/24/25 18:28	121,3500CR-B	AAS





**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

**SAMPLE RESULTS**

**Lab ID:** L2509865-03  
**Client ID:** FDSW\_022225  
**Sample Location:** JENKINTOWN, PA

**Date Collected:** 02/22/25 00:00  
**Date Received:** 02/22/25  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Cyanide, Total	33.9		ug/l	5.00	1.80	1	02/25/25 01:40	02/25/25 11:24	121,4500CN-CE	JER
Cyanide, Free	7.00	J	ug/l	10.0	3.50	1	-	02/25/25 05:15	121,4500CN-E(M)	KAF
Oil & Grease, Hem-Grav	ND		ug/l	4000	4000	1	02/24/25 22:22	02/25/25 00:48	140,1664B	IYM
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	02/24/25 17:45	02/24/25 18:29	121,3500CR-B	AAS



**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

**SAMPLE RESULTS**

**Lab ID:** L2509865-04  
**Client ID:** SW3\_022225  
**Sample Location:** JENKINTOWN, PA

**Date Collected:** 02/22/25 13:20  
**Date Received:** 02/22/25  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Cyanide, Total	71.3		ug/l	5.00	1.80	1	02/25/25 01:40	02/25/25 11:25	121,4500CN-CE	JER
Cyanide, Free	20.0		ug/l	10.0	3.50	1	-	02/25/25 05:15	121,4500CN-E(M)	KAF
Oil & Grease, Hem-Grav	ND		ug/l	4000	4000	1	02/24/25 22:22	02/25/25 00:51	140,1664B	IYM
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	02/24/25 17:45	02/24/25 18:29	121,3500CR-B	AAS



**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

**SAMPLE RESULTS**

**Lab ID:** L2509865-05  
**Client ID:** SW2\_022225  
**Sample Location:** JENKINTOWN, PA

**Date Collected:** 02/22/25 14:10  
**Date Received:** 02/22/25  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Cyanide, Total	1.91	J	ug/l	5.00	1.80	1	02/25/25 01:40	02/25/25 11:48	121,4500CN-CE	JER
Cyanide, Free	ND		ug/l	10.0	3.50	1	-	02/25/25 05:15	121,4500CN-E(M)	KAF
Oil & Grease, Hem-Grav	ND		ug/l	3600	3600	.9	02/24/25 22:22	02/25/25 00:52	140,1664B	IYM
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	02/24/25 17:45	02/24/25 18:29	121,3500CR-B	AAS



**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

**SAMPLE RESULTS**

**Lab ID:** L2509865-06  
**Client ID:** SW1\_022225  
**Sample Location:** JENKINTOWN, PA

**Date Collected:** 02/22/25 14:45  
**Date Received:** 02/22/25  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Cyanide, Total	ND		ug/l	5.00	1.80	1	02/25/25 01:40	02/25/25 11:49	121,4500CN-CE	JER
Cyanide, Free	ND		ug/l	10.0	3.50	1	-	02/25/25 05:15	121,4500CN-E(M)	KAF
Oil & Grease, Hem-Grav	ND		ug/l	4000	4000	1	02/24/25 22:22	02/25/25 01:04	140,1664B	IYM
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	02/24/25 17:45	02/24/25 18:30	121,3500CR-B	AAS





**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

**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): 01-06 Batch: WG2033614-1										
Oil & Grease, Hem-Grav	ND		ug/l	4000	4000	1	02/24/25 22:22	02/25/25 00:43	140,1664B	IYM
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG2033638-1										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	02/24/25 17:45	02/24/25 18:26	121,3500CR-B	AAS
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG2033642-1										
Cyanide, Total	ND		ug/l	5.00	1.80	1	02/25/25 01:40	02/25/25 11:16	121,4500CN-CE	JER
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG2033676-1										
Cyanide, Free	ND		ug/l	10.0	3.50	1	-	02/25/25 05:15	121,4500CN-E(M)	KAF



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** SPS TECHNOLOGIES

**Lab Number:** L2509865

**Project Number:** US0043268.2150

**Report Date:** 02/26/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG2033614-2								
Oil & Grease, Hem-Grav	88		-		78-114	-		18
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG2033638-2								
Chromium, Hexavalent	104		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG2033642-2								
Cyanide, Total	94		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG2033676-2								
Cyanide, Free	97		-		90-110	-		

### Matrix Spike Analysis Batch Quality Control

**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG2033614-4 WG2033614-5 QC Sample: L2509865-01 Client ID: SW5_022225												
Oil & Grease, Hem-Grav	ND	40800	39000	96		36000	89		78-114	8		18
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG2033638-4 WG2033638-5 QC Sample: L2509865-01 Client ID: SW5_022225												
Chromium, Hexavalent	ND	100	100	100		102	102		85-115	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG2033642-6 WG2033642-7 QC Sample: L2509865-01 Client ID: SW5_022225												
Cyanide, Total	4.59J	200	184	92		203	102		90-110	10		30
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG2033676-4 WG2033676-5 QC Sample: L2509865-01 Client ID: SW5_022225												
Cyanide, Free	5.00J	250	225	90		219	88		80-120	3		20



## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2509865

Report Date: 02/26/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG2033614-3 QC Sample: L2509865-01 Client ID: SW5_022225						
Oil & Grease, Hem-Grav	ND	ND	ug/l	NC		18
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG2033638-3 QC Sample: L2509865-01 Client ID: SW5_022225						
Chromium, Hexavalent	ND	ND	ug/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG2033642-8 QC Sample: L2509865-01 Client ID: SW5_022225						
Cyanide, Total	4.59J	7.30	ug/l	NC		30
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG2033676-3 QC Sample: L2509865-01 Client ID: SW5_022225						
Cyanide, Free	5.00J	4.00J	ug/l	NC		20

**Project Name:** SPS TECHNOLOGIES**Lab Number:** L2509865**Project Number:** US0043268.2150**Report Date:** 02/26/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
A	Present/Intact
B	Present/Intact
C	Present/Intact

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2509865-01A	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-01A1	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-01A2	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-01B	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-01B1	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-01B2	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-01C	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-01C1	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-01C2	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-01D	Plastic 250ml HNO <sub>3</sub> preserved	A	<2	<2	2.8	Y	Present/Intact		HARDT-2008-PPB(180),NI-2008T-PPB(180),CR-2008T-PPB(180)
L2509865-01D1	Plastic 250ml HNO <sub>3</sub> preserved	A	<2	<2	2.8	Y	Present/Intact		HARDT-2008-PPB(180),NI-2008T-PPB(180),CR-2008T-PPB(180)
L2509865-01D2	Plastic 250ml HNO <sub>3</sub> preserved	A	<2	<2	2.8	Y	Present/Intact		HARDT-2008-PPB(180),NI-2008T-PPB(180),CR-2008T-PPB(180)
L2509865-01E	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Present/Intact		TCN-4500-PPB(14)
L2509865-01E1	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Present/Intact		TCN-4500-PPB(14)
L2509865-01E2	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Present/Intact		TCN-4500-PPB(14)
L2509865-01F	Plastic 500ml unpreserved	A	7	7	2.8	Y	Present/Intact		HEXCR-3500-PPB(1),FCN-PPB(1)
L2509865-01F1	Plastic 500ml unpreserved	A	7	7	2.8	Y	Present/Intact		HEXCR-3500-PPB(1),FCN-PPB(1),TCN-4500-PPB(14)
L2509865-01F2	Plastic 500ml unpreserved	A	7	7	2.8	Y	Present/Intact		HEXCR-3500-PPB(1),FCN-PPB(1),TCN-4500-PPB(14)
L2509865-01G	Amber 1L HCl preserved	A	NA		2.8	Y	Present/Intact		OG-1664-PPB(28)



**Project Name:** SPS TECHNOLOGIES**Lab Number:** L2509865**Project Number:** US0043268.2150**Report Date:** 02/26/25**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2509865-01G1	Amber 1L HCl preserved	A	NA		2.8	Y	Present/Intact		OG-1664-PPB(28)
L2509865-01G2	Amber 1L HCl preserved	A	NA		2.8	Y	Present/Intact		OG-1664-PPB(28)
L2509865-01H	Amber 1L HCl preserved	A	NA		2.8	Y	Present/Intact		OG-1664-PPB(28)
L2509865-01H1	Amber 1L HCl preserved	A	NA		2.8	Y	Present/Intact		OG-1664-PPB(28)
L2509865-01H2	Amber 1L HCl preserved	A	NA		2.8	Y	Present/Intact		OG-1664-PPB(28)
L2509865-02A	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-02B	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-02C	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-02D	Plastic 250ml HNO <sub>3</sub> preserved	B	<2	<2	3.5	Y	Present/Intact		HARDT-2008-PPB(180),NI-2008T-PPB(180),CR-2008T-PPB(180)
L2509865-02E	Plastic 250ml NaOH preserved	B	>12	>12	3.5	Y	Present/Intact		TCN-4500-PPB(14)
L2509865-02F	Plastic 500ml unpreserved	B	7	7	3.5	Y	Present/Intact		HEXCR-3500-PPB(1),FCN-PPB(1)
L2509865-02G	Amber 1L HCl preserved	B	NA		3.5	Y	Present/Intact		OG-1664-PPB(28)
L2509865-02H	Amber 1L HCl preserved	B	NA		3.5	Y	Present/Intact		OG-1664-PPB(28)
L2509865-03A	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-03B	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-03C	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-03D	Plastic 250ml HNO <sub>3</sub> preserved	B	<2	<2	3.5	Y	Present/Intact		HARDT-2008-PPB(180),NI-2008T-PPB(180),CR-2008T-PPB(180)
L2509865-03E	Plastic 250ml NaOH preserved	B	>12	>12	3.5	Y	Present/Intact		TCN-4500-PPB(14)
L2509865-03F	Plastic 500ml unpreserved	B	7	7	3.5	Y	Present/Intact		HEXCR-3500-PPB(1),FCN-PPB(1)
L2509865-03G	Amber 1L HCl preserved	B	NA		3.5	Y	Present/Intact		OG-1664-PPB(28)
L2509865-03H	Amber 1L HCl preserved	B	NA		3.5	Y	Present/Intact		OG-1664-PPB(28)
L2509865-04A	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-04B	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-04C	Vial Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-04D	Plastic 250ml HNO <sub>3</sub> preserved	C	<2	<2	3.1	Y	Present/Intact		HARDT-2008-PPB(180),NI-2008T-PPB(180),CR-2008T-PPB(180)
L2509865-04E	Plastic 250ml NaOH preserved	C	>12	>12	3.1	Y	Present/Intact		TCN-4500-PPB(14)
L2509865-04F	Plastic 500ml unpreserved	C	7	7	3.1	Y	Present/Intact		HEXCR-3500-PPB(1),FCN-PPB(1)

**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

Serial\_No:02262510:37  
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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2509865-04G	Amber 1L HCl preserved	C	NA		3.1	Y	Present/Intact		OG-1664-PPB(28)
L2509865-04H	Amber 1L HCl preserved	C	NA		3.1	Y	Present/Intact		OG-1664-PPB(28)
L2509865-05A	Vial Na2S2O3 preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-05B	Vial Na2S2O3 preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-05C	Vial Na2S2O3 preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-05D	Plastic 250ml HNO3 preserved	C	<2	<2	3.1	Y	Present/Intact		HARDT-2008-PPB(180),NI-2008T-PPB(180),CR-2008T-PPB(180)
L2509865-05E	Plastic 250ml NaOH preserved	C	>12	>12	3.1	Y	Present/Intact		TCN-4500-PPB(14)
L2509865-05F	Plastic 500ml unpreserved	C	7	7	3.1	Y	Present/Intact		HEXCR-3500-PPB(1),FCN-PPB(1)
L2509865-05G	Amber 1L HCl preserved	C	NA		3.1	Y	Present/Intact		OG-1664-PPB(28)
L2509865-05H	Amber 1L HCl preserved	C	NA		3.1	Y	Present/Intact		OG-1664-PPB(28)
L2509865-06A	Vial Na2S2O3 preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-06B	Vial Na2S2O3 preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-06C	Vial Na2S2O3 preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-06D	Plastic 250ml HNO3 preserved	C	<2	<2	3.1	Y	Present/Intact		HARDT-2008-PPB(180),NI-2008T-PPB(180),CR-2008T-PPB(180)
L2509865-06E	Plastic 250ml NaOH preserved	C	>12	>12	3.1	Y	Present/Intact		TCN-4500-PPB(14)
L2509865-06F	Plastic 500ml unpreserved	C	7	7	3.1	Y	Present/Intact		HEXCR-3500-PPB(1),FCN-PPB(1)
L2509865-06G	Amber 1L HCl preserved	C	NA		3.1	Y	Present/Intact		OG-1664-PPB(28)
L2509865-06H	Amber 1L HCl preserved	C	NA		3.1	Y	Present/Intact		OG-1664-PPB(28)
L2509865-07A	Vial Na2S2O3 preserved	A	NA		2.8	Y	Present/Intact		624.1(7)
L2509865-07B	Vial Na2S2O3 preserved	A	NA		2.8	Y	Present/Intact		624.1(7)



**Project Name:** SPS TECHNOLOGIES  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

## 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



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**Lab Number:** L2509865  
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### Footnotes

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

### Terms

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

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

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

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

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

**Gasoline Range Organics (GRO):** Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl 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  
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**Lab Number:** L2509865  
**Report Date:** 02/26/25

#### 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  
**Project Number:** US0043268.2150

**Lab Number:** L2509865  
**Report Date:** 02/26/25

## REFERENCES

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

## LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at its 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, NO<sub>2</sub>, NO<sub>3</sub>.

**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**

**Pace Analytical Services LLC**

ID No.:17873

Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: **Certificate/Approval Program Summary**

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**Certification IDs:****Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

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

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

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

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

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

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



# CHAIN OF CUSTODY

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WESTBORO, 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 #: -  
 Project Manager: Tovah Karl  
 ALPHA Quote #:

## Turn-Around Time

Standard  RUSH (only confirmed if pre-approved)  
 Date Due: \_\_\_\_\_ Time: 1 Day TAT

Date Rec'd in Lab: 2/23/25

## Report Information - Data Delivery

FAX  EMAIL  
 ADEx  Add'l Deliverables

**L2509865**  
**WSP - NJ**  
**25FEB25**

## Client Information

Client: WSP USA, Inc.  
 Address: 10 Lake Center Dr.  
Suite 205, Marlton, NJ 08053  
 Phone: 856-793-2005  
 Fax: 856-793-2006  
 Email: Tovah.Karl@wsp.com

## Other Project Specific Requirements/Comments/Detection Limits:

\* Attorney-client Privileged & Confidential \*  
Analysis: Hex. Chromium (Speciated) - SM 3500

## Regulatory Requirements/Report Limits

State / Fed Program: PA Criteria: \_\_\_\_\_

ALPHA Lab ID (Lab Use Only) Sample ID Collection Date Time Sample Matrix Sampler's Initials

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials
09865-01	SW5_022225	2/22/25	1050	SW	MSG
-02	SW4_022225	2/22/25	1220	SW	MSG
-03	FDSW-022225	—	—	SW	MSG
-04	SW3_022225	2/22/25	1320	SW	MSG
-05	SW2_022225	2/22/25	1410	SW	MSG
-06	SW1_022225	2/22/25	1445	SW	MSG
-07	TBSW-022225	2/22/25	—	W	MSG

ANALYSIS	Oil & Grease - 1664	F. Cr <sup>6+</sup> - SM 4500	T. Cr <sup>6+</sup> - SM 4500	T. Nickel - 6020	Hex. Chromium - SM 3500	MEK - 6041.1 (Speciated) - SM 3500	Toluene - 6041.1	SAMPLE HANDLING
	X	X	X	X	X	X	X	Filtration _____ <input type="checkbox"/> Done <input type="checkbox"/> Not needed <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please specify below) Sample Specific Comments

TOTAL # BOTTLES

MS/MSD collected pH=6.96 24  
 pH=7.35 8  
 pH=7.35 3  
 pH=7.35 3  
 pH=7.90 3  
 pH=7.48 3  
 2

Container Type: A P P P P P V V  
 Preservative: B A E C C A O O

Relinquished By: Michael Giberson Date/Time: 2/22/25 15:55  
 Received By: Flora Pace Date/Time: 2/22/25 18:15  
Omran Pace 2/23/25 14:20 C. Schen 2/23/25 14:20

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 Terms and Conditions. See reverse side.

**CUSTODY SEAL**

Date 2/22/25

Signature [Handwritten Signature]

**Thermo**  
SCIENTIFIC

90009

**CUSTODY SEAL**

Date 2/22/25

Signature [Handwritten Signature]

**Thermo**  
SCIENTIFIC

90009

**CUSTODY SEAL**

Date 2/22/25

Signature [Handwritten Signature]

**Thermo**  
SCIENTIFIC

90009