



SPS Technologies Abington PA
February 25, 2025 Daily Surface Water
and Outfall Sampling Results Report

SPS Technologies

2025-02-28



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1. Executive Summary

WSP USA Inc. (WSP), on behalf of SPS Technologies Abington PA (SPS), collected five surface water samples and two outfall 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.

Surface Water Samples:

| | | Upstream Offsite SW Sample Location 1 | Upstream Offsite SW Sample Location 2 | SW Sample Location 3 | High School Road Sample Location | Downstream SW Sample Location |
|----------------------|-------|---------------------------------------|---------------------------------------|----------------------|----------------------------------|-------------------------------|
| Parameter | Units | Result | Result | Result | Result | Result |
| Toluene | mg/L | ND | ND | ND | ND | ND |
| 2-Butanone (MEK) | mg/L | ND | ND | ND | ND | ND |
| Chromium, Trivalent | mg/L | ND | ND | ND | ND | ND |
| Chromium, Hexavalent | mg/L | ND | ND | ND | ND | ND |
| Total Cyanide | mg/L | ND | ND | 0.0276 | 0.00893 | ND |
| Free Cyanide | mg/L | ND | ND | 0.01 | 0.004 | ND |
| Oil & Grease | mg/L | ND | ND | ND | ND | ND |
| Total Chromium | mg/L | 0.0003532 | 0.0002083 | 0.0003476 | 0.0002566 | 0.0003879 |
| Total Nickel | mg/L | 0.0008156 | 0.001561 | 0.01675 | 0.008543 | 0.006154 |
| Dissolved Chromium | mg/L | 0.000438 | ND | ND | ND | 0.0002057 |
| Dissolved Nickel | mg/L | 0.0009526 | 0.00155 | 0.01502 | 0.007719 | 0.005218 |
| Hardness | µg/L | 241.8 | 295.8 | 262.6 | 242.7 | 224.7 |
| pH | SU | 8.58 | 7.85 | 7.36 | 7.32 | 6.76 |

Outfall Samples:

| | | Outfall 004 | Outfall 006, Outfall 007, and Outfall 008 |
|-----------------------------|-------|-------------|---|
| Parameter | Units | Result | Result |
| Total Suspended Solids | mg/L | 13 | 18 |
| Nitrate/Nitrite as Nitrogen | mg/L | 2.6 | 2.5 |
| Chemical Oxygen Demand | mg/L | 68 | 7.7 |
| Total Aluminum | mg/L | 0.02252 | 0.07425 |
| Total Copper | mg/L | 0.01326 | 0.00311 |
| Total Iron | mg/L | 0.05477 | 0.3345 |
| Total Lead | mg/L | 0.0007243 | 0.002102 |
| pH | SU | 6.73 | 8.04 |

A detailed description of the sampling procedure, results, and data evaluation are included in this Report. The laboratory data validation reports and the complete laboratory analytical reports, 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.

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 and Outfall Sampling Field Methodology

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

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

- Water depth (for surface water samples only)
- Weather conditions
- Water velocity (if visibly flowing)
- Sample characteristics (clarity, appearance, color, odor, 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 forms attached in **Appendix A**. The in-field measurements of pH are provided on **Table 1** and **2**.

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

In accordance with the Sampling Plan, outfall samples were analyzed for the following parameters:

- Chemical Oxygen Demand
- Total Suspended Solids
- Nitrate-Nitrite as N
- Total Aluminum
- Total Copper
- Total Iron
- Total Lead

The validated daily analytical results from outfall sampling are presented in **Table 2**.

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



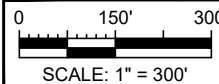
SOURCE
NEARMAP IMAGERY, JUNE 16, 2024.

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



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Tel. 610-828-8100
www.wsp.com

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.:



SOURCE
 GEOMAP IMAGERY, 2025.

LEGEND
 SW = SURFACE WATER
 ● SURFACE WATER SAMPLE LOCATION



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 Tel. 610-828-8100
 www.wsp.com

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 Field Sample ID Lab Sample ID Sampling Date Matrix | Upstream Offsite SW Sample Location 1 | | | Upstream Offsite SW Sample Location 2 | | | SW Sample Location 3 | | | High School Road Sample Location | | | Downstream SW Sample Location | | | |
|--|---------------------------------------|-----------|---|---------------------------------------|-----------|---|----------------------|-----------|---|----------------------------------|-----------|---|-------------------------------|-----------|---|-------|
| | SW2_022525 | | | SW1_022525 | | | SW3_022525 | | | SW4_022525 | | | SW5_022525 | | | |
| | L2510339-04 | | | L2510339-05 | | | L2510339-03 | | | L2510339-02 | | | L2510339-01 | | | |
| | 2/25/2025 | | | 2/25/2025 | | | 2/25/2025 | | | 2/25/2025 | | | 2/25/2025 | | | |
| | Water | | | Water | | | Water | | | Water | | | Water | | | |
| Parameter | Units | Result | Q | RL | Result | Q | RL | Result | Q | RL | Result | Q | RL | Result | Q | RL |
| Volatile Organic Compounds | | | | | | | | | | | | | | | | |
| Toluene | mg/L | 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 | ND | | 0.01 | ND | | 0.01 | ND | | 0.01 |
| General Chemistry | | | | | | | | | | | | | | | | |
| Chromium, Trivalent | mg/L | ND | | 0.01 | ND | | 0.01 | ND | | 0.01 | ND | | 0.01 | ND | | 0.01 |
| Chromium, Hexavalent | mg/L | ND | | 0.01 | ND | | 0.01 | ND | | 0.01 | ND | | 0.01 | ND | | 0.01 |
| Total Cyanide | mg/L | ND | | 0.005 | ND | | 0.005 | 0.0276 | | 0.005 | 0.00893 | | 0.005 | ND | | 0.005 |
| Free Cyanide | mg/L | ND | | 0.01 | ND | | 0.01 | 0.01 | | 0.01 | 0.004 | J | 0.01 | ND | | 0.01 |
| Oil & Grease | mg/L | ND | | 4 | ND | | 4 | ND | | 4 | ND | | 4 | ND | | 4 |
| Total Metals | | | | | | | | | | | | | | | | |
| Total Chromium | mg/L | 0.0003532 | J | 0.001 | 0.0002083 | J | 0.001 | 0.0003476 | J | 0.001 | 0.0002566 | J | 0.001 | 0.0003879 | J | 0.001 |
| Total Nickel | mg/L | 0.0008156 | J | 0.002 | 0.001561 | J | 0.002 | 0.01675 | | 0.002 | 0.008543 | | 0.002 | 0.006154 | | 0.002 |
| Dissolved Metals | | | | | | | | | | | | | | | | |
| Dissolved Chromium | mg/L | 0.000438 | J | 0.001 | ND | | 0.001 | ND | | 0.001 | ND | | 0.001 | 0.0002057 | J | 0.001 |
| Dissolved Nickel | mg/L | 0.0009526 | J | 0.002 | 0.00155 | J | 0.002 | 0.01502 | | 0.002 | 0.007719 | | 0.002 | 0.005218 | | 0.002 |
| Total Hardness | | | | | | | | | | | | | | | | |
| Hardness | µg/L | 241.8 | | 0.54 | 295.8 | | 0.54 | 262.6 | | 0.54 | 242.7 | | 0.54 | 224.7 | | 0.54 |
| Field Parameters | | | | | | | | | | | | | | | | |
| pH ¹ | SU | 8.58 | | | 7.85 | | | 7.36 | | | 7.32 | | | 6.76 | | |

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.

Abbreviations:

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

Qualifiers:

J - Estimated Result



Table 2
Outfall Analytical Results
Daily Surface Water Sampling Results Report
SPS Technologies
Jenkintown, Pennsylvania

| Sample Location | | Outfall 004 | | | Outfall 006, Outfall 007, and Outfall 008 | | |
|-----------------------------|-------|--------------|---|-------|---|---|-------|
| Field Sample ID | | OF004_022525 | | | OF00678_022525 | | |
| Lab Sample ID | | L2510340-01 | | | L2510340-02 | | |
| Sampling Date | | 2/25/2025 | | | 2/25/2025 | | |
| Matrix | | Water | | | Water | | |
| Parameter | Units | Result | Q | RL | Result | Q | RL |
| General Chemistry | | | | | | | |
| Total Suspended Solids | mg/L | 13 | | 5 | 18 | | 5 |
| Nitrate/Nitrite as Nitrogen | mg/L | 2.6 | | 0.1 | 2.5 | | 0.1 |
| Chemical Oxygen Demand | mg/L | 68 | | 20 | 7.7 | J | 20 |
| Total Metals | | | | | | | |
| Total Aluminum | mg/L | 0.02252 | | 0.01 | 0.07425 | | 0.01 |
| Total Copper | mg/L | 0.01326 | | 0.001 | 0.00311 | | 0.001 |
| Total Iron | mg/L | 0.05477 | | 0.05 | 0.3345 | | 0.05 |
| Total Lead | mg/L | 0.0007243 | J | 0.001 | 0.002102 | | 0.001 |
| Field Parameters | | | | | | | |
| pH ¹ | SU | 6.73 | | | 8.04 | | |

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.

Abbreviations:

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

Qualifiers:

J - Estimated Result

Created By: SNM 2/27/2025
 Checked By: JKC 2/28/2025



APPENDIX A – DAILY SURFACE WATER AND OUTFALL SAMPLING LOGS

2/25/25

2/23/2025

Project Number: TBD

SURFACE WATER SAMPLE FIELD INFORMATION FORM

Site: SPS
 Location: Abington
 Project Number: _____
 Meter/Type/Serial #: Horiba U-52 # S/N: SVSR3JTG
 Meter Calibrated @: 8.28 2/25/23
 Flow Meter: FH950 Meter # S/N: 182641004154
 Sampling Date/Time: SWS-022525 @ 10:25 2/25/25, SW4-022525 @ 11:10 2/25/25, SW3-022525 @ 12:10 2/25/25
 Sampler(s): SPS, B6
 Sampling Device: Telescopic pole and Dipper Ladle
 Sample Characteristics: SWS-022525 clear no odor, SW4-022525 clear no odor, SW3-022525 Sheen clear no odor
 Analytical Parameters: _____

Additional Notes: SW3-022525 Sheen present
 - PSD readings 0.0 all day and at all locations

Weather Conditions: Clear 41°F

| STATION / SAMPLE | STATION DESCRIPTION (stream/lake/river) | DATE mm/dd/yy | TIME hr:min | TOTAL DEPTH inches | SAMPLE DEPTH inches | WATER TEMP Celsius | pH SU | COND mS/cm | ORP mV | TURBIDITY NTU | DO mg/L | VELOCITY ft/sec |
|-------------------------|--|------------------|----------------|-----------------------------|------------------------|-----------------------|----------|---------------|-----------|------------------|------------|--------------------|
| SWS-022525 | Creek | 2/25/25 | 10:25 | 14.5 | 7.25 | 9.88 | 6.76 | 0.748 | +443 | 0 | 6.38 | 0.50 |
| Sample Characteristics: | | | | Clear no odor | | | | | | | | |
| SW4-022525 | Creek | 2/25/25 | 11:10 | 6 | 3 | 9.05 | 7.32 | 0.832 | +286 | 0 | 7.68 | 1.82 |
| Sample Characteristics: | | | | Clear no odor 72 (6) 36 (6) | | | | | | | | |
| SW3-022525 | Creek | 2/25/25 | 12:10 | 30.5 | 15.25 | 10.5 | 7.36 | 0.771 | +190 | 0 | 8.03 | 0.09 |
| Sample Characteristics: | | | | Clear, no odor, sheen | | | | | | | | |
| SW2-022525 | Creek | 2/25/25 | 13:20 | 6 | 3 | 11.34 | 8.58 | 0.699 | +195 | 0 | 8.89 | 0.29 |
| Sample Characteristics: | | | | clear, no odor | | | | | | | | |
| SW1-022525 | Creek | 2/25/25 | 13:50 | 15 | 7.5 | 11.28 | 7.85 | 1.02 | +217 | 0 | 7.61 | 2.09 |
| Staff Gauge Reading | Clear | no odor | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

[Handwritten signatures]



2/27/2025

Project Number: US0043268.2150

SURFACE WATER/OUTFALL SAMPLE FIELD INFORMATION FORM

Site: SPS
 Location: JENKINTON PA
 Project Number: US0043268.2150
 Meter/Type/Serial #: Horiba U-52 # S/N: 227785
 Meter Calibrated @: 1300
 Flow Meter: FH950 Meter # S/N: _____
 Sampling Date/Time: 2/25/25
 Sampler(s): CB5
 Sampling Device: _____
 Sample Characteristics: _____
 Analytical Parameters: _____

Additional Notes:

Weather Conditions: Sols overcast

| STATION / SAMPLE | STATION DESCRIPTION (stream/lake/river) | DATE mm/dd/yy | TIME hr:min | 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 |
|-------------------------|---|---------------|-------------|--|--------------|--------------------|--------------|-------|------------|--------|---------------|---------|-----------------|
| 0F002-022525 | Outfall | 02/25/25 | 1345 | | | 11.27 | | 7.15 | 2.666 | 99 | 33.2 | 7.84 | |
| Sample Characteristics: | | | | taken at standing pool outside outfall, no flow | | | | | | | | | |
| 0F009-022525 | Outfall | 02/25/25 | 1445 | | | 11.26 | | 7.27 | 0.541 | 13 | 0.4 | 16.80 | |
| Sample Characteristics: | | | | taken at runoff near the stream, little to no flow | | | | | | | | | |
| 0F00478-022525 | Outfall | 02/25/25 | 1955 | | | 10.69 | | 8.04 | 0.510 | 93 | 5.6 | 12.53 | |
| Sample Characteristics: | | | | little flow | | | | | | | | | |
| Sample Characteristics: | | | | | | | | | | | | | |
| Sample Characteristics: | | | | | | | | | | | | | |
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| Sample Characteristics: | | | | | | | | | | | | | |

WSP

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 26, 2025

Checked by: Julie Lehrman

Review Date: February 27, 2025

Laboratory: Pace Analytical LLC

Lab SDG #: L2510339

Matrix: Aqueous Soil Sediment Waste Air Other:

Analytical Methods: See Table B-1

Sample Information: See Table B-1

Work Plan or QAPP: SPS Technologies Abington PA Surface Water and Outfall Sampling Plan (WSP, 2025)

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)

| COC and Sample Receipt | YES | NO | NA | COMMENT |
|---|-------------------------------------|--------------------------|--------------------------|-------------------|
| 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 B-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"/> | | |

| Data Package Information | YES | NO | NA | COMMENT |
|---|-------------------------------------|--------------------------|--------------------------|----------------|
| 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 checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| 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"/> | | |

| Analytical Assessment | YES | NO | NA | COMMENT |
|---|-------------------------------------|--------------------------|-------------------------------------|----------------|
| 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"/> | | |

| Analytical Assessment | YES | NO | NA | COMMENT |
|---|-------------------------------------|-------------------------------------|----|---------|
| 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"/> | | |

| Laboratory Case Narrative | YES | NO | NA | COMMENT |
|--|-------------------------------------|--------------------------|--------------------------|-----------------|
| 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"/> | |

| Sample Preservation and Holding Time | YES | NO | NA | COMMENT |
|---|-------------------------------------|--------------------------|--------------------------|---------|
| 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 checked="" type="checkbox"/> | <input type="checkbox"/> | | |

| Blanks | YES | NO | NA | COMMENTS |
|--|-------------------------------------|-------------------------------------|-------------------------------------|----------|
| 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"/> | |

| Surrogates or Deuterated Monitoring Compounds | YES | NO | NA | COMMENTS |
|---|-------------------------------------|--------------------------|--------------------------|----------|
| 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"/> | |

| LCS/LCSD | YES | NO | NA | COMMENTS |
|--|-------------------------------------|--------------------------|-------------------------------------|----------|
| 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"/> | |

| MS/MSDs | YES | NO | NA | COMMENTS |
|---|-------------------------------------|--------------------------|--------------------------|---|
| a) Were project-specific MS (and MSD) reported? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | SW5_022525 (total/dissolved metals & cyanide), SW4_022525 (oil & grease), SW2_022525 (Hex Cr) |
| 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 type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | SW5_022525 (total/dissolved metals, cyanide, oil & grease), SW2_022525 (Hex Cr) |
| b) Was laboratory duplicate RPD or absolute difference criteria acceptable? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| c) Were field duplicates reported? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d) Was field duplicate RPD or absolute difference criteria acceptable? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

| 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"/> | | |
| b) Were data acceptable and usable, except where noted? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |

Comments/Notes:

The reliability of the analytical data was 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 without qualification.

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 | Dissolved Metals | Total Hardness | Free Cyanide | Total Cyanide | Trivalent Chromium | Hexavalent Chromium |
| | | | | | | E624.1 | E1664B | 200.8 | 200.8 | 200.8 | SM4500CN-E(M) | SM4500CN-CE | SM3500 | SM3500CR-B |
| L2510339 | SW5_022525 | WS | L2510339-01 | -- | 2/25/2025 | X | X | X | X | X | X | X | X | X |
| L2510339 | SW4_022525 | WS | L2510339-02 | -- | 2/25/2025 | X | X | X | X | X | X | X | X | X |
| L2510339 | SW3_022525 | WS | L2510339-03 | -- | 2/25/2025 | X | X | X | X | X | X | X | X | X |
| L2510339 | SW2_022525 | WS | L2510339-04 | -- | 2/25/2025 | X | X | X | X | X | X | X | X | X |
| L2510339 | SW1_022525 | WS | L2510339-05 | -- | 2/25/2025 | X | X | X | X | X | X | X | X | X |
| L2510339 | TBSW_022225 | WQ | L2510339-06 | TB | 2/25/2025 | 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.
- 3) Dissolved 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

| <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> |
|-----------------------|------------------------|----------------|-------------------|----------------|---------------|------------------|--|
| L2510339 | No Qualifiers Required | | | | | | |
| L2510339 | 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

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 26, 2025

Checked by: Julie Lehrman

Review Date: February 27, 2025

Laboratory: Pace Analytical LLC

Lab SDG #: L2510340

Matrix: Aqueous Soil Sediment Waste Air Other:

Analytical Methods: See Table B-1

Sample Information: See Table B-1

Work Plan or QAPP: SPS Technologies Abington PA Surface Water and Outfall Sampling Plan (WSP, 2025)

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)

| COC and Sample Receipt | YES | NO | NA | COMMENT |
|---|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------|
| 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 type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | No QC samples this data package |
| d) Did the cooler contents match the COC? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | See Note 1 |
| 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"/> | | |

| Data Package Information | YES | NO | NA | COMMENT |
|---|-------------------------------------|--------------------------|--------------------------|----------------|
| 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 checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| 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"/> | | |

| Analytical Assessment | YES | NO | NA | COMMENT |
|---|-------------------------------------|--------------------------|-------------------------------------|----------------|
| 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"/> | | |

Analytical Assessment

YES NO NA

COMMENT

- d) Were detected concentrations less than the QL qualified by the laboratory?
- e) Were detected concentrations above the calibration range reported by the laboratory?
- f) Did the laboratory satisfy the requested sensitivity requirements?

Laboratory Case Narrative

YES NO NA

COMMENT

- a) Do the laboratory narrative or laboratory qualifiers indicate deficiencies? See Notes below
- b) Were all deficiencies noted in the laboratory qualifiers or narrative?

Sample Preservation and Holding Time

YES NO NA

COMMENT

- a) Were samples properly preserved?
- b) Were holding times met for sample preparation?
- c) Were holding times met for sample analysis?

Blanks

YES NO NA

COMMENTS

- a) Were blanks analyzed at the appropriate frequency?
- b) Were any analytes detected in the associated preparation/method blank?
- c) Were any analytes detected in the associated trip blanks?
- d) Were any analytes detected in the associated field or equipment/rinsate blanks?
- e) Were any analytes detected in the associated storage blanks?

Surrogates or Deuterated Monitoring Compounds

YES NO NA

COMMENTS

- a) Were the correct surrogate compounds added to each sample?
- b) Were surrogate recoveries within control limits?
- c) If not, were samples analyzed at dilution factors of 20x or greater?

LCS/LCSD

YES NO NA

COMMENTS

- a) Were LCS/LCSD reported at the appropriate frequency?
- b) Were proper analytes included in the LCS/LCSD?
- c) Were LCS/LCSD recoveries within control limits?
- d) Were RPD values within control limits (if LCSD was analyzed)?

MS/MSDs

YES NO NA

COMMENTS

- a) Were project-specific MS (and MSD) reported? OF004_022525 (nitrate-nitrite only)
- b) Were proper analytes reported in the MS/MSD?

| 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 type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | OF004_022525 (nitrate-nitrite only) |
| b) Was laboratory duplicate RPD or absolute difference criteria acceptable? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| c) Were field duplicates reported? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d) Was field duplicate RPD or absolute difference criteria acceptable? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 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 as reported by the laboratory. Further detail can be found in the comments below and in Table B-2.

1. The collection date/time on the chain of custody for sample OF00678_022525 was 2/25/25 14:45. However the collection date/time on the container label was 2/25/25 14:55. It was confirmed with field staff the collection date/time was 2/25/25 14:55 and was reported in the lab report as such. A revised chain of custody was provided to the laboratory for use in a revised report. No further action was required other than to note.

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 | | | |
|----------------|----------------------|--------|--------------------|------------|-----------------|------------------------|-------|----------------------|--------------|
| | | | | | | Total Suspended Solids | COD | Nitrate-Nitrite as N | Total Metals |
| | | | | | | SM 2540D | 410.4 | 353.2 | 200.8 |
| L2510340 | OF004_022525 | WS | L2510340-01 | -- | 2/25/2025 | X | X | X | X |
| L2510340 | OF00678_022525 | WS | L2510340-02 | -- | 2/25/2025 | X | X | X | X |

Notes:

- 1) Metal analyses were performed by Pace Analytical Mansfield Lab, all other parameters were performed at Pace Analytical Westborough Lab.
- 2) Total Metals include: aluminum, copper, iron, and lead

Abbreviations:

- COD: Chemical Oxygen Demand
- MS/MSD: Matrix Spike/Matrix Spike Duplicate
- QC: Quality Control
- SM: Standard Methods
- TB: Trip Blank
- WS: Surface Water
- WQ: Quality Control Water

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> |
|-----------------------|----------------------------|----------------|-------------------|----------------|---------------|------------------|--|
| L2510340 | No Qualifications Required | | | | | | |
| L2510340 | 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

APPENDIX C – LABORATORY ANALYTICAL REPORTS



ANALYTICAL REPORT

| | |
|-----------------|--|
| Lab Number: | L2510339 |
| 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: | 02/27/25 |

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

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

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



Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2510339
Report Date: 02/27/25

| Lab Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2510339-01 | SW5_022525 | WATER | JENKINTOWN, PA | 02/25/25 10:25 | 02/25/25 |
| L2510339-02 | SW4_022525 | WATER | JENKINTOWN, PA | 02/25/25 11:15 | 02/25/25 |
| L2510339-03 | SW3_022525 | WATER | JENKINTOWN, PA | 02/25/25 12:10 | 02/25/25 |
| L2510339-04 | SW2_022525 | WATER | JENKINTOWN, PA | 02/25/25 13:20 | 02/25/25 |
| L2510339-05 | SW1_022525 | WATER | JENKINTOWN, PA | 02/25/25 13:50 | 02/25/25 |
| L2510339-06 | TBSW_022525 | WATER | JENKINTOWN, PA | 02/25/25 00:00 | 02/25/25 |

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2510339
Report Date: 02/27/25

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: L2510339
Report Date: 02/27/25

Case Narrative (continued)

Report Submission

February 27, 2025: This final report includes the results of all requested analyses.

February 26, 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.

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: 02/27/25

ORGANICS

VOLATILES

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2510339
Report Date: 02/27/25

SAMPLE RESULTS

Lab ID: L2510339-01
 Client ID: SW5_022525
 Sample Location: JENKINTOWN, PA

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

Sample Depth:

Matrix: Water
 Analytical Method: 128,624.1
 Analytical Date: 02/26/25 11:54
 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 | 78 | | 60-140 |
|--------------------|----|--|--------|

| | | | |
|---------------|----|--|--------|
| Fluorobenzene | 84 | | 60-140 |
|---------------|----|--|--------|

| | | | |
|----------------------|-----|--|--------|
| 4-Bromofluorobenzene | 132 | | 60-140 |
|----------------------|-----|--|--------|

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2510339
Report Date: 02/27/25

SAMPLE RESULTS

Lab ID: L2510339-02
 Client ID: SW4_022525
 Sample Location: JENKINTOWN, PA

Date Collected: 02/25/25 11:15
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 128,624.1
 Analytical Date: 02/26/25 11:22
 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 | 82 | | 60-140 |
| Fluorobenzene | 85 | | 60-140 |
| 4-Bromofluorobenzene | 133 | | 60-140 |

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2510339
Report Date: 02/27/25

SAMPLE RESULTS

Lab ID: L2510339-03
 Client ID: SW3_022525
 Sample Location: JENKINTOWN, PA

Date Collected: 02/25/25 12:10
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 128,624.1
 Analytical Date: 02/26/25 10:50
 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 | 85 | | 60-140 |
| 4-Bromofluorobenzene | 126 | | 60-140 |

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2510339
Report Date: 02/27/25

SAMPLE RESULTS

Lab ID: L2510339-04
 Client ID: SW2_022525
 Sample Location: JENKINTOWN, PA

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

Sample Depth:

Matrix: Water
 Analytical Method: 128,624.1
 Analytical Date: 02/26/25 10:18
 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 | 79 | | 60-140 |
| Fluorobenzene | 86 | | 60-140 |
| 4-Bromofluorobenzene | 132 | | 60-140 |

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2510339
Report Date: 02/27/25

SAMPLE RESULTS

Lab ID: L2510339-05
 Client ID: SW1_022525
 Sample Location: JENKINTOWN, PA

Date Collected: 02/25/25 13:50
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 128,624.1
 Analytical Date: 02/26/25 09:45
 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 | 91 | | 60-140 |
|--------------------|----|--|--------|

| | | | |
|---------------|----|--|--------|
| Fluorobenzene | 85 | | 60-140 |
|---------------|----|--|--------|

| | | | |
|----------------------|-----|--|--------|
| 4-Bromofluorobenzene | 122 | | 60-140 |
|----------------------|-----|--|--------|

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2510339
Report Date: 02/27/25

SAMPLE RESULTS

Lab ID: L2510339-06
 Client ID: TBSW_022525
 Sample Location: JENKINTOWN, PA

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

Sample Depth:

Matrix: Water
 Analytical Method: 128,624.1
 Analytical Date: 02/26/25 09:12
 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 | 89 | | 60-140 |
| Fluorobenzene | 86 | | 60-140 |
| 4-Bromofluorobenzene | 131 | | 60-140 |

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2510339
Report Date: 02/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 02/26/25 08:41
Analyst: JKH

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG2034417-4 | | | | | |
| Toluene | ND | | ug/l | 1.0 | 0.31 |
| 2-Butanone | ND | | ug/l | 10 | 1.0 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|----------------------|-----------|-----------|---------------------|
| Pentafluorobenzene | 92 | | 60-140 |
| Fluorobenzene | 86 | | 60-140 |
| 4-Bromofluorobenzene | 135 | | 60-140 |

Lab Control Sample Analysis
Batch Quality Control

Project Name: SPS TECHNOLOGIES

Lab Number: L2510339

Project Number: US0043268.2150

Report Date: 02/27/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG2034417-3 | | | | | | | | |
| Toluene | 110 | | - | | 70-130 | - | | 41 |
| 2-Butanone | 78 | | - | | 60-140 | - | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|----------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| Pentafluorobenzene | 104 | | | | 60-140 |
| Fluorobenzene | 105 | | | | 60-140 |
| 4-Bromofluorobenzene | 134 | | | | 60-140 |



METALS



Project Name: SPS TECHNOLOGIES**Lab Number:** L2510339**Project Number:** US0043268.2150**Report Date:** 02/27/25**SAMPLE RESULTS**

Lab ID: L2510339-01

Date Collected: 02/25/25 10:25

Client ID: SW5_022525

Date Received: 02/25/25

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 |
|--|--------|-----------|-------|-------|--------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab | | | | | | | | | | | |
| Chromium, Total | 0.3879 | J | ug/l | 1.000 | 0.1780 | 1 | 02/26/25 07:26 | 02/26/25 11:00 | EPA 3005A | 3,200.8 | NTB |
| Nickel, Total | 6.154 | | ug/l | 2.000 | 0.5560 | 1 | 02/26/25 07:26 | 02/26/25 11:00 | EPA 3005A | 3,200.8 | NTB |
| Total Hardness (by calculation) - Mansfield Lab | | | | | | | | | | | |
| Hardness | 224700 | | ug/l | 540.0 | NA | 1 | 02/26/25 07:26 | 02/26/25 11:00 | EPA 3005A | 3,200.8 | NTB |
| General Chemistry - Mansfield Lab | | | | | | | | | | | |
| Chromium, Trivalent | ND | | ug/l | 10.0 | 3.00 | 1 | | 02/26/25 11:00 | NA | 107,- | |
| Dissolved Metals - Mansfield Lab | | | | | | | | | | | |
| Chromium, Dissolved | 0.2057 | J | ug/l | 1.000 | 0.1780 | 1 | 02/27/25 07:08 | 02/27/25 10:43 | EPA 3005A | 3,200.8 | NTB |
| Nickel, Dissolved | 5.218 | | ug/l | 2.000 | 0.5560 | 1 | 02/27/25 07:08 | 02/27/25 10:43 | EPA 3005A | 3,200.8 | NTB |



Project Name: SPS TECHNOLOGIES**Lab Number:** L2510339**Project Number:** US0043268.2150**Report Date:** 02/27/25**SAMPLE RESULTS**

Lab ID: L2510339-02

Date Collected: 02/25/25 11:15

Client ID: SW4_022525

Date Received: 02/25/25

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 |
|--|--------|-----------|-------|-------|--------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab | | | | | | | | | | | |
| Chromium, Total | 0.2566 | J | ug/l | 1.000 | 0.1780 | 1 | 02/26/25 07:26 | 02/26/25 11:27 | EPA 3005A | 3,200.8 | NTB |
| Nickel, Total | 8.543 | | ug/l | 2.000 | 0.5560 | 1 | 02/26/25 07:26 | 02/26/25 11:27 | EPA 3005A | 3,200.8 | NTB |
| Total Hardness (by calculation) - Mansfield Lab | | | | | | | | | | | |
| Hardness | 242700 | | ug/l | 540.0 | NA | 1 | 02/26/25 07:26 | 02/26/25 11:27 | EPA 3005A | 3,200.8 | NTB |
| General Chemistry - Mansfield Lab | | | | | | | | | | | |
| Chromium, Trivalent | ND | | ug/l | 10.0 | 3.00 | 1 | | 02/26/25 11:27 | NA | 107,- | |
| Dissolved Metals - Mansfield Lab | | | | | | | | | | | |
| Chromium, Dissolved | ND | | ug/l | 1.000 | 0.1780 | 1 | 02/27/25 07:08 | 02/27/25 10:56 | EPA 3005A | 3,200.8 | NTB |
| Nickel, Dissolved | 7.719 | | ug/l | 2.000 | 0.5560 | 1 | 02/27/25 07:08 | 02/27/25 10:56 | EPA 3005A | 3,200.8 | NTB |



Project Name: SPS TECHNOLOGIES**Lab Number:** L2510339**Project Number:** US0043268.2150**Report Date:** 02/27/25**SAMPLE RESULTS**

Lab ID: L2510339-03

Date Collected: 02/25/25 12:10

Client ID: SW3_022525

Date Received: 02/25/25

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 |
|--|--------|-----------|-------|-------|--------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab | | | | | | | | | | | |
| Chromium, Total | 0.3476 | J | ug/l | 1.000 | 0.1780 | 1 | 02/26/25 07:26 | 02/26/25 11:32 | EPA 3005A | 3,200.8 | NTB |
| Nickel, Total | 16.75 | | ug/l | 2.000 | 0.5560 | 1 | 02/26/25 07:26 | 02/26/25 11:32 | EPA 3005A | 3,200.8 | NTB |
| Total Hardness (by calculation) - Mansfield Lab | | | | | | | | | | | |
| Hardness | 262600 | | ug/l | 540.0 | NA | 1 | 02/26/25 07:26 | 02/26/25 11:32 | EPA 3005A | 3,200.8 | NTB |
| General Chemistry - Mansfield Lab | | | | | | | | | | | |
| Chromium, Trivalent | ND | | ug/l | 10.0 | 3.00 | 1 | | 02/26/25 11:32 | NA | 107,- | |
| Dissolved Metals - Mansfield Lab | | | | | | | | | | | |
| Chromium, Dissolved | ND | | ug/l | 1.000 | 0.1780 | 1 | 02/27/25 07:08 | 02/27/25 11:01 | EPA 3005A | 3,200.8 | NTB |
| Nickel, Dissolved | 15.02 | | ug/l | 2.000 | 0.5560 | 1 | 02/27/25 07:08 | 02/27/25 11:01 | EPA 3005A | 3,200.8 | NTB |



Project Name: SPS TECHNOLOGIES**Lab Number:** L2510339**Project Number:** US0043268.2150**Report Date:** 02/27/25**SAMPLE RESULTS**

Lab ID: L2510339-04

Date Collected: 02/25/25 13:20

Client ID: SW2_022525

Date Received: 02/25/25

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 |
|--|--------|-----------|-------|-------|--------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab | | | | | | | | | | | |
| Chromium, Total | 0.3532 | J | ug/l | 1.000 | 0.1780 | 1 | 02/26/25 07:26 | 02/26/25 11:37 | EPA 3005A | 3,200.8 | NTB |
| Nickel, Total | 0.8156 | J | ug/l | 2.000 | 0.5560 | 1 | 02/26/25 07:26 | 02/26/25 11:37 | EPA 3005A | 3,200.8 | NTB |
| Total Hardness (by calculation) - Mansfield Lab | | | | | | | | | | | |
| Hardness | 241800 | | ug/l | 540.0 | NA | 1 | 02/26/25 07:26 | 02/26/25 11:37 | EPA 3005A | 3,200.8 | NTB |
| General Chemistry - Mansfield Lab | | | | | | | | | | | |
| Chromium, Trivalent | ND | | ug/l | 10.0 | 3.00 | 1 | | 02/26/25 11:37 | NA | 107,- | |
| Dissolved Metals - Mansfield Lab | | | | | | | | | | | |
| Chromium, Dissolved | 0.4380 | J | ug/l | 1.000 | 0.1780 | 1 | 02/27/25 07:08 | 02/27/25 11:05 | EPA 3005A | 3,200.8 | NTB |
| Nickel, Dissolved | 0.9526 | J | ug/l | 2.000 | 0.5560 | 1 | 02/27/25 07:08 | 02/27/25 11:05 | EPA 3005A | 3,200.8 | NTB |



Project Name: SPS TECHNOLOGIES**Lab Number:** L2510339**Project Number:** US0043268.2150**Report Date:** 02/27/25**SAMPLE RESULTS**

Lab ID: L2510339-05

Date Collected: 02/25/25 13:50

Client ID: SW1_022525

Date Received: 02/25/25

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 |
|--|--------|-----------|-------|-------|--------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab | | | | | | | | | | | |
| Chromium, Total | 0.2083 | J | ug/l | 1.000 | 0.1780 | 1 | 02/26/25 07:26 | 02/26/25 11:41 | EPA 3005A | 3,200.8 | NTB |
| Nickel, Total | 1.561 | J | ug/l | 2.000 | 0.5560 | 1 | 02/26/25 07:26 | 02/26/25 11:41 | EPA 3005A | 3,200.8 | NTB |
| Total Hardness (by calculation) - Mansfield Lab | | | | | | | | | | | |
| Hardness | 295800 | | ug/l | 540.0 | NA | 1 | 02/26/25 07:26 | 02/26/25 11:41 | EPA 3005A | 3,200.8 | NTB |
| General Chemistry - Mansfield Lab | | | | | | | | | | | |
| Chromium, Trivalent | ND | | ug/l | 10.0 | 3.00 | 1 | | 02/26/25 11:41 | NA | 107,- | |
| Dissolved Metals - Mansfield Lab | | | | | | | | | | | |
| Chromium, Dissolved | ND | | ug/l | 1.000 | 0.1780 | 1 | 02/27/25 07:08 | 02/27/25 11:09 | EPA 3005A | 3,200.8 | NTB |
| Nickel, Dissolved | 1.550 | J | ug/l | 2.000 | 0.5560 | 1 | 02/27/25 07:08 | 02/27/25 11:09 | EPA 3005A | 3,200.8 | NTB |



Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2510339
Report Date: 02/27/25

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): 01-05 Batch: WG2034142-1 | | | | | | | | | |
| Chromium, Total | ND | ug/l | 1.000 | 0.1780 | 1 | 02/26/25 07:26 | 02/26/25 10:49 | 3,200.8 | NTB |
| Nickel, Total | ND | ug/l | 2.000 | 0.5560 | 1 | 02/26/25 07:26 | 02/26/25 10:49 | 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): 01-05 Batch: WG2034142-1 | | | | | | | | | |
| Hardness | ND | ug/l | 540.0 | NA | 1 | 02/26/25 07:26 | 02/26/25 10:49 | 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): 01-05 Batch: WG2034288-1 | | | | | | | | | |
| Chromium, Dissolved | ND | ug/l | 1.000 | 0.1780 | 1 | 02/27/25 07:08 | 02/27/25 10:34 | 3,200.8 | NTB |
| Nickel, Dissolved | ND | ug/l | 2.000 | 0.5560 | 1 | 02/27/25 07:08 | 02/27/25 10:34 | 3,200.8 | NTB |

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis
Batch Quality Control

Project Name: SPS TECHNOLOGIES

Lab Number: L2510339

Project Number: US0043268.2150

Report Date: 02/27/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2034142-2 | | | | | | | | |
| Chromium, Total | 95 | | - | | 85-115 | - | | |
| Nickel, Total | 111 | | - | | 85-115 | - | | |
| Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-05 Batch: WG2034142-2 | | | | | | | | |
| Hardness | 106 | | - | | 85-115 | - | | |
| Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2034288-2 | | | | | | | | |
| Chromium, Dissolved | 95 | | - | | 85-115 | - | | |
| Nickel, Dissolved | 101 | | - | | 85-115 | - | | |

Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Lab Number: L2510339

Project Number: US0043268.2150

Report Date: 02/27/25

| 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): 01-05 QC Batch ID: WG2034142-3 QC Sample: L2510339-01 Client ID: SW5_022525 | | | | | | | | | | | | |
| Chromium, Total | 0.3879J | 200 | 188.0 | 94 | | - | - | | 70-130 | - | | 20 |
| Nickel, Total | 6.154 | 500 | 556.5 | 110 | | - | - | | 70-130 | - | | 20 |
| Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2034142-3 QC Sample: L2510339-01 Client ID: SW5_022525 | | | | | | | | | | | | |
| Hardness | 224700 | 66200 | 285400 | 92 | | - | - | | 70-130 | - | | 20 |
| Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2034288-3 QC Sample: L2510339-01 Client ID: SW5_022525 | | | | | | | | | | | | |
| Chromium, Dissolved | 0.2057J | 200 | 190.8 | 95 | | - | - | | 70-130 | - | | 20 |
| Nickel, Dissolved | 5.218 | 500 | 502.7 | 99 | | - | - | | 70-130 | - | | 20 |

Lab Duplicate Analysis

Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2510339

Report Date: 02/27/25

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--|---------------|------------------|-------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2034142-4 QC Sample: L2510339-01 Client ID: SW5_022525 | | | | | | |
| Chromium, Total | 0.3879J | 0.3401J | ug/l | NC | | 20 |
| Nickel, Total | 6.154 | 5.720 | ug/l | 7 | | 20 |
| Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2034142-4 QC Sample: L2510339-01 Client ID: SW5_022525 | | | | | | |
| Hardness | 224700 | 211800 | ug/l | 6 | | 20 |
| Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2034288-4 QC Sample: L2510339-01 Client ID: SW5_022525 | | | | | | |
| Chromium, Dissolved | 0.2057J | ND | ug/l | NC | | 20 |
| Nickel, Dissolved | 5.218 | 5.127 | ug/l | 2 | | 20 |

INORGANICS & MISCELLANEOUS

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2510339
Report Date: 02/27/25

SAMPLE RESULTS

Lab ID: L2510339-01
Client ID: SW5_022525
Sample Location: JENKINTOWN, PA

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

Sample Depth:
Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|------|------|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Cyanide, Total | ND | | ug/l | 5.00 | 1.80 | 1 | 02/26/25 10:55 | 02/26/25 14:03 | 121,4500CN-CE | JER |
| Cyanide, Free | ND | | ug/l | 10.0 | 3.50 | 1 | - | 02/26/25 08:17 | 121,4500CN-E(M) | KAF |
| Oil & Grease, Hem-Grav | ND | | ug/l | 4000 | 4000 | 1 | 02/26/25 07:47 | 02/26/25 09:10 | 140,1664B | TPR |
| Chromium, Hexavalent | ND | | ug/l | 10.0 | 3.00 | 1 | 02/26/25 09:30 | 02/26/25 09:54 | 121,3500CR-B | DMO |



Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2510339
Report Date: 02/27/25

SAMPLE RESULTS

Lab ID: L2510339-02
Client ID: SW4_022525
Sample Location: JENKINTOWN, PA

Date Collected: 02/25/25 11:15
Date Received: 02/25/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|------|------|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Cyanide, Total | 8.93 | | ug/l | 5.00 | 1.80 | 1 | 02/26/25 10:55 | 02/26/25 14:06 | 121,4500CN-CE | JER |
| Cyanide, Free | 4.00 | J | ug/l | 10.0 | 3.50 | 1 | - | 02/26/25 08:17 | 121,4500CN-E(M) | KAF |
| Oil & Grease, Hem-Grav | ND | | ug/l | 4000 | 4000 | 1 | 02/26/25 07:47 | 02/26/25 09:07 | 140,1664B | TPR |
| Chromium, Hexavalent | ND | | ug/l | 10.0 | 3.00 | 1 | 02/26/25 09:30 | 02/26/25 09:55 | 121,3500CR-B | DMO |



Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2510339
Report Date: 02/27/25

SAMPLE RESULTS

Lab ID: L2510339-03
Client ID: SW3_022525
Sample Location: JENKINTOWN, PA

Date Collected: 02/25/25 12:10
Date Received: 02/25/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|------|------|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Cyanide, Total | 27.6 | | ug/l | 5.00 | 1.80 | 1 | 02/26/25 10:55 | 02/26/25 14:07 | 121,4500CN-CE | JER |
| Cyanide, Free | 10.0 | | ug/l | 10.0 | 3.50 | 1 | - | 02/26/25 08:17 | 121,4500CN-E(M) | KAF |
| Oil & Grease, Hem-Grav | ND | | ug/l | 4000 | 4000 | 1 | 02/26/25 07:47 | 02/26/25 10:04 | 140,1664B | TPR |
| Chromium, Hexavalent | ND | | ug/l | 10.0 | 3.00 | 1 | 02/26/25 09:30 | 02/26/25 09:56 | 121,3500CR-B | DMO |



Project Name: SPS TECHNOLOGIES

Lab Number: L2510339

Project Number: US0043268.2150

Report Date: 02/27/25

SAMPLE RESULTS

Lab ID: L2510339-04

Date Collected: 02/25/25 13:20

Client ID: SW2_022525

Date Received: 02/25/25

Sample Location: JENKINTOWN, PA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|------|------|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Cyanide, Total | ND | | ug/l | 5.00 | 1.80 | 1 | 02/26/25 10:55 | 02/26/25 14:08 | 121,4500CN-CE | JER |
| Cyanide, Free | ND | | ug/l | 10.0 | 3.50 | 1 | - | 02/26/25 08:17 | 121,4500CN-E(M) | KAF |
| Oil & Grease, Hem-Grav | ND | | ug/l | 4000 | 4000 | 1 | 02/26/25 07:47 | 02/26/25 10:06 | 140,1664B | TPR |
| Chromium, Hexavalent | ND | | ug/l | 10.0 | 3.00 | 1 | 02/26/25 09:30 | 02/26/25 09:57 | 121,3500CR-B | DMO |



Project Name: SPS TECHNOLOGIES

Lab Number: L2510339

Project Number: US0043268.2150

Report Date: 02/27/25

SAMPLE RESULTS

Lab ID: L2510339-05

Date Collected: 02/25/25 13:50

Client ID: SW1_022525

Date Received: 02/25/25

Sample Location: JENKINTOWN, PA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|------|------|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Cyanide, Total | ND | | ug/l | 5.00 | 1.80 | 1 | 02/26/25 10:55 | 02/26/25 14:11 | 121,4500CN-CE | JER |
| Cyanide, Free | ND | | ug/l | 10.0 | 3.50 | 1 | - | 02/26/25 08:17 | 121,4500CN-E(M) | KAF |
| Oil & Grease, Hem-Grav | ND | | ug/l | 4000 | 4000 | 1 | 02/26/25 07:47 | 02/26/25 10:09 | 140,1664B | TPR |
| Chromium, Hexavalent | ND | | ug/l | 10.0 | 3.00 | 1 | 02/26/25 09:30 | 02/26/25 10:00 | 121,3500CR-B | DMO |



Project Name: SPS TECHNOLOGIES

Lab Number: L2510339

Project Number: US0043268.2150

Report Date: 02/27/25

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): 01-05 Batch: WG2034178-1 | | | | | | | | | |
| Cyanide, Free | ND | ug/l | 10.0 | 3.50 | 1 | - | 02/26/25 08:17 | 121,4500CN-E(M) | KAF |
| General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2034195-1 | | | | | | | | | |
| Oil & Grease, Hem-Grav | ND | ug/l | 4000 | 4000 | 1 | 02/26/25 07:47 | 02/26/25 09:05 | 140,1664B | TPR |
| General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2034283-1 | | | | | | | | | |
| Cyanide, Total | ND | ug/l | 5.00 | 1.80 | 1 | 02/26/25 10:55 | 02/26/25 13:59 | 121,4500CN-CE | JER |
| General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2034301-1 | | | | | | | | | |
| Chromium, Hexavalent | ND | ug/l | 10.0 | 3.00 | 1 | 02/26/25 09:30 | 02/26/25 09:52 | 121,3500CR-B | DMO |



Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2510339

Report Date: 02/27/25

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|--|-----------|------|-----------|------|---------------------|-----|------|------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2034178-2 | | | | | | | | |
| Cyanide, Free | 102 | | - | | 90-110 | - | | |
| General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2034195-2 | | | | | | | | |
| Oil & Grease, Hem-Grav | 98 | | - | | 78-114 | - | | 18 |
| General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2034283-2 | | | | | | | | |
| Cyanide, Total | 95 | | - | | 90-110 | - | | |
| General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2034301-2 | | | | | | | | |
| Chromium, Hexavalent | 100 | | - | | 85-115 | - | | 20 |

Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Lab Number: L2510339

Project Number: US0043268.2150

Report Date: 02/27/25

| 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): 01-05 QC Batch ID: WG2034178-4 QC Sample: L2510339-01 Client ID: SW5_022525 | | | | | | | | | | | | |
| Cyanide, Free | ND | 250 | 240 | 96 | - | - | - | - | 80-120 | - | - | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2034195-4 QC Sample: L2510339-02 Client ID: SW4_022525 | | | | | | | | | | | | |
| Oil & Grease, Hem-Grav | ND | 39600 | 36000 | 91 | - | - | - | - | 78-114 | - | - | 18 |
| General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2034283-3 QC Sample: L2510339-01 Client ID: SW5_022525 | | | | | | | | | | | | |
| Cyanide, Total | ND | 200 | 199 | 100 | - | - | - | - | 90-110 | - | - | 30 |
| General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2034301-4 QC Sample: L2510339-04 Client ID: SW2_022525 | | | | | | | | | | | | |
| Chromium, Hexavalent | ND | 100 | 107 | 107 | - | - | - | - | 85-115 | - | - | 20 |

Lab Duplicate Analysis

Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2510339

Report Date: 02/27/25

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2034178-3 QC Sample: L2510339-01 Client ID: SW5_022525 | | | | | | |
| Cyanide, Free | ND | ND | ug/l | NC | | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2034195-3 QC Sample: L2510339-01 Client ID: SW5_022525 | | | | | | |
| Oil & Grease, Hem-Grav | ND | ND | ug/l | NC | | 18 |
| General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2034283-4 QC Sample: L2510339-01 Client ID: SW5_022525 | | | | | | |
| Cyanide, Total | ND | ND | ug/l | NC | | 30 |
| General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2034301-3 QC Sample: L2510339-04 Client ID: SW2_022525 | | | | | | |
| Chromium, Hexavalent | ND | ND | ug/l | NC | | 20 |

Project Name: SPS TECHNOLOGIES**Lab Number:** L2510339**Project Number:** US0043268.2150**Report Date:** 02/27/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

| Cooler | Custody Seal |
|---------------|---------------------|
| A | Present/Intact |
| B | Present/Intact |
| C | Present/Intact |

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|--|---------------|-------------------|-----------------|-------------------|-------------|----------------|-------------------------|---|
| L2510339-01A | Vial Na ₂ S ₂ O ₃ preserved | B | NA | | 2.1 | Y | Present/Intact | | 624.1(7) |
| L2510339-01B | Vial Na ₂ S ₂ O ₃ preserved | B | NA | | 2.1 | Y | Present/Intact | | 624.1(7) |
| L2510339-01C | Vial Na ₂ S ₂ O ₃ preserved | B | NA | | 2.1 | Y | Present/Intact | | 624.1(7) |
| L2510339-01D | Plastic 250ml unpreserved | B | 7 | 7 | 2.1 | Y | Present/Intact | | - |
| L2510339-01E | Plastic 250ml HNO ₃ preserved | B | <2 | <2 | 2.1 | Y | Present/Intact | | HARDT-2008-PPB(180),NI-2008T-PPB(180),CR-2008T-PPB(180) |
| L2510339-01F | Plastic 250ml NaOH preserved | B | >12 | >12 | 2.1 | Y | Present/Intact | | TCN-4500-PPB(14) |
| L2510339-01G | Plastic 500ml unpreserved | B | 7 | 7 | 2.1 | Y | Present/Intact | | HEXCR-3500-PPB(1),FCN-PPB(1) |
| L2510339-01H | Amber 1L HCl preserved | B | NA | | 2.1 | Y | Present/Intact | | OG-1664-PPB(28) |
| L2510339-01J | Amber 1L HCl preserved | B | NA | | 2.1 | Y | Present/Intact | | OG-1664-PPB(28) |
| L2510339-01X | Plastic 120ml HNO ₃ preserved Filtrates | B | NA | | 2.1 | Y | Present/Intact | | NI-2008S-PPB(180),CR-2008S-PPB(180) |
| L2510339-02A | Vial Na ₂ S ₂ O ₃ preserved | B | NA | | 2.1 | Y | Present/Intact | | 624.1(7) |
| L2510339-02B | Vial Na ₂ S ₂ O ₃ preserved | B | NA | | 2.1 | Y | Present/Intact | | 624.1(7) |
| L2510339-02C | Vial Na ₂ S ₂ O ₃ preserved | B | NA | | 2.1 | Y | Present/Intact | | 624.1(7) |
| L2510339-02D | Plastic 250ml unpreserved | B | 7 | 7 | 2.1 | Y | Present/Intact | | - |
| L2510339-02E | Plastic 250ml HNO ₃ preserved | B | <2 | <2 | 2.1 | Y | Present/Intact | | HARDT-2008-PPB(180),NI-2008T-PPB(180),CR-2008T-PPB(180) |
| L2510339-02F | Plastic 250ml NaOH preserved | B | >12 | >12 | 2.1 | Y | Present/Intact | | TCN-4500-PPB(14) |
| L2510339-02G | Plastic 500ml unpreserved | B | 7 | 7 | 2.1 | Y | Present/Intact | | HEXCR-3500-PPB(1),FCN-PPB(1) |
| L2510339-02H | Amber 1L HCl preserved | B | NA | | 2.1 | Y | Present/Intact | | OG-1664-PPB(28) |
| L2510339-02J | Amber 1L HCl preserved | B | NA | | 2.1 | Y | Present/Intact | | OG-1664-PPB(28) |
| L2510339-02X | Plastic 120ml HNO ₃ preserved Filtrates | B | NA | | 2.1 | Y | Present/Intact | | CR-2008S-PPB(180),NI-2008S-PPB(180) |

Project Name: SPS TECHNOLOGIES**Lab Number:** L2510339**Project Number:** US0043268.2150**Report Date:** 02/27/25**Container Information**

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|--|---------------|-------------------|-----------------|-------------------|-------------|----------------|-------------------------|---|
| L2510339-03A | Vial Na2S2O3 preserved | B | NA | | 2.1 | Y | Present/Intact | | 624.1(7) |
| L2510339-03B | Vial Na2S2O3 preserved | B | NA | | 2.1 | Y | Present/Intact | | 624.1(7) |
| L2510339-03C | Vial Na2S2O3 preserved | B | NA | | 2.1 | Y | Present/Intact | | 624.1(7) |
| L2510339-03D | Plastic 250ml unpreserved | B | 7 | 7 | 2.1 | Y | Present/Intact | | - |
| L2510339-03E | Plastic 250ml HNO3 preserved | B | <2 | <2 | 2.1 | Y | Present/Intact | | HARDT-2008-PPB(180),NI-2008T-PPB(180),CR-2008T-PPB(180) |
| L2510339-03F | Plastic 250ml NaOH preserved | B | >12 | >12 | 2.1 | Y | Present/Intact | | TCN-4500-PPB(14) |
| L2510339-03G | Plastic 500ml unpreserved | B | 7 | 7 | 2.1 | Y | Present/Intact | | HEXCR-3500-PPB(1),FCN-PPB(1) |
| L2510339-03H | Amber 1L HCl preserved | B | NA | | 2.1 | Y | Present/Intact | | OG-1664-PPB(28) |
| L2510339-03J | Amber 1L HCl preserved | B | NA | | 2.1 | Y | Present/Intact | | OG-1664-PPB(28) |
| L2510339-03X | Plastic 120ml HNO3 preserved Filtrates | B | NA | | 2.1 | Y | Present/Intact | | CR-2008S-PPB(180),NI-2008S-PPB(180) |
| L2510339-04A | Vial Na2S2O3 preserved | B | NA | | 2.1 | Y | Present/Intact | | 624.1(7) |
| L2510339-04B | Vial Na2S2O3 preserved | B | NA | | 2.1 | Y | Present/Intact | | 624.1(7) |
| L2510339-04C | Vial Na2S2O3 preserved | B | NA | | 2.1 | Y | Present/Intact | | 624.1(7) |
| L2510339-04D | Plastic 250ml unpreserved | A | 7 | 7 | 3.3 | Y | Present/Intact | | - |
| L2510339-04E | Plastic 250ml HNO3 preserved | A | <2 | <2 | 3.3 | Y | Present/Intact | | HARDT-2008-PPB(180),NI-2008T-PPB(180),CR-2008T-PPB(180) |
| L2510339-04F | Plastic 250ml NaOH preserved | A | >12 | >12 | 3.3 | Y | Present/Intact | | TCN-4500-PPB(14) |
| L2510339-04G | Plastic 500ml unpreserved | A | 7 | 7 | 3.3 | Y | Present/Intact | | HEXCR-3500-PPB(1),FCN-PPB(1) |
| L2510339-04H | Amber 1L HCl preserved | A | NA | | 3.3 | Y | Present/Intact | | OG-1664-PPB(28) |
| L2510339-04J | Amber 1L HCl preserved | A | NA | | 3.3 | Y | Present/Intact | | OG-1664-PPB(28) |
| L2510339-04X | Plastic 120ml HNO3 preserved Filtrates | A | NA | | 3.3 | Y | Present/Intact | | NI-2008S-PPB(180),CR-2008S-PPB(180) |
| L2510339-05A | Vial Na2S2O3 preserved | B | NA | | 2.1 | Y | Present/Intact | | 624.1(7) |
| L2510339-05B | Vial Na2S2O3 preserved | B | NA | | 2.1 | Y | Present/Intact | | 624.1(7) |
| L2510339-05C | Vial Na2S2O3 preserved | B | NA | | 2.1 | Y | Present/Intact | | 624.1(7) |
| L2510339-05D | Plastic 250ml unpreserved | A | 7 | 7 | 3.3 | Y | Present/Intact | | - |
| L2510339-05E | Plastic 250ml HNO3 preserved | A | <2 | <2 | 3.3 | Y | Present/Intact | | HARDT-2008-PPB(180),NI-2008T-PPB(180),CR-2008T-PPB(180) |
| L2510339-05F | Plastic 250ml NaOH preserved | A | >12 | >12 | 3.3 | Y | Present/Intact | | TCN-4500-PPB(14) |
| L2510339-05G | Plastic 500ml unpreserved | A | 7 | 7 | 3.3 | Y | Present/Intact | | HEXCR-3500-PPB(1),FCN-PPB(1) |

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Serial_No:02272515:00
Lab Number: L2510339
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Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|--|---------------|-------------------|-----------------|-------------------|-------------|----------------|-------------------------|-------------------------------------|
| L2510339-05H | Amber 1L HCl preserved | A | NA | | 3.3 | Y | Present/Intact | | OG-1664-PPB(28) |
| L2510339-05J | Amber 1L HCl preserved | A | NA | | 3.3 | Y | Present/Intact | | OG-1664-PPB(28) |
| L2510339-05X | Plastic 120ml HNO3 preserved Filtrates | A | NA | | 3.3 | Y | Present/Intact | | NI-2008S-PPB(180),CR-2008S-PPB(180) |
| L2510339-06A | Vial Na2S2O3 preserved | B | NA | | 2.1 | Y | Present/Intact | | 624.1(7) |
| L2510339-06B | Vial Na2S2O3 preserved | B | NA | | 2.1 | Y | Present/Intact | | 624.1(7) |



Project Name: SPS TECHNOLOGIES
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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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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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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: L2510339
Report Date: 02/27/25

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, 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

Pace Analytical Services LLC

ID No.:17873

Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: **Certificate/Approval Program Summary**

Page 2 of 2

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.



CHAIN OF CUSTODY

PAGE 1 OF 1

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 #: *US0043268.2150*
 Project Manager: *Tovah Karl*
 ALPHA Quote #:

Report Information - Data Deliverables

Date Rec'd in Lab: *2/26/25*

FAX EMAIL
 ADEx Add'l Deliverables

L2510339 26FEB25
GOLDER - NJ

Billing Information

Same as Client info PO #:

Client Information

Client: *WSP USA Inc*
 Address: *10 Lake Center Drive*
Suite 205, Marlton, NJ 08053
 Phone: *856-743-2005*
 Fax: *856-743-2006*
 Email: *Tovah.Karl@wsp.com*
Stacy.Mason@wsp.com

These samples have been previously analyzed by Alpha

Turn-Around Time

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

Other Project Specific Requirements/Comments/Detection Limits:
** Attorney-client privileged & confidential **
All VOCs in 1 cooler
Dissolved metals will need to be Lab filtered

Regulatory Requirements/Report Limits

State /Fed Program: *PA* Criteria:

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials |
|--------------------------------|--------------------|----------------|--------------|---------------|--------------------|
| | | Date | Time | | |
| <i>10339-01</i> | <i>SW5-022525</i> | <i>2/25/25</i> | <i>10:25</i> | <i>SW</i> | <i>JET</i> |
| <i>02</i> | <i>SW4-022525</i> | <i>2/25/25</i> | <i>11:10</i> | <i>SW</i> | <i>JET</i> |
| <i>03</i> | <i>SW3-022525</i> | <i>2/25/25</i> | <i>12:10</i> | <i>SW</i> | <i>JET</i> |
| <i>04</i> | <i>SW2-022525</i> | <i>2/25/25</i> | <i>13:20</i> | <i>SW</i> | <i>JET</i> |
| <i>05</i> | <i>SW1-022525</i> | <i>2/25/25</i> | <i>13:50</i> | <i>SW</i> | <i>JET</i> |
| <i>06</i> | <i>TBSW-022525</i> | <i>2/25/25</i> | <i>—</i> | <i>W</i> | <i>—</i> |

| ANALYSIS | Oil and Grease E1664B | Free Cyanide SA 4500-01 | Speciate Arsenic SA 4500-01 | Total Cyanide SA 4500-01 | Total Nickel E200.8 | Total Chromium E200.8 | Dissolved Nickel E200.8 | Dissolved Chromium E200.8 | MEK E624.1 | Toluene E624.1 | Total Hexachlor E200.8 |
|----------|-----------------------|-------------------------|-----------------------------|--------------------------|---------------------|-----------------------|-------------------------|---------------------------|------------|----------------|------------------------|
| | X | X | X | X | X | X | X | X | X | X | X |

SAMPLE HANDLING

Filtration _____
 Done
 Not needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

| | | | | | | | | | |
|----------------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|
| Container Type | <i>A</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>V</i> | <i>V</i> |
| Preservative | <i>B</i> | <i>A</i> | <i>A</i> | <i>E</i> | <i>C</i> | <i>A</i> | <i>A</i> | <i>HH</i> | |

Relinquished By: *[Signature]* Date/Time: *2/25/25 16:10*
 Received By: *[Signature]* Date/Time: *2/25/25 16:10*
Anthony Green *2/25/25 16:20*

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.

Anthony Green *2/26/25 08:45* *2/26/25 08:45* *2/26/25 08:45*

CUSTODY SEAL

Date 2/25/25
Signature [Signature]

Thermo
SCIENTIFIC

90009

a

CUSTODY SEAL

Date 2/25/25
Signature [Signature]

Thermo
SCIENTIFIC

90009

CUSTODY SEAL

Date 2/25/25
Signature [Signature]

Thermo
SCIENTIFIC

90009

B

CUSTODY SEAL

Date 2/25/25
Signature [Signature]

Thermo
SCIENTIFIC

90009

CUSTODY SEAL

Date 02/25/25
Signature [Signature]

Thermo
SCIENTIFIC

90009

CUSTODY SEAL

Date 02/25/25
Signature [Signature]

Thermo
SCIENTIFIC

90009

c



ANALYTICAL REPORT

| | |
|-----------------|--|
| Lab Number: | L2510340 |
| 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).

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



Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2510340
Report Date: 02/26/25

| Lab Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2510340-01 | OF004_022525 | WATER | JENKINTOWN, PA | 02/25/25 13:30 | 02/25/25 |
| L2510340-02 | OF00678_022525 | WATER | JENKINTOWN, PA | 02/25/25 14:55 | 02/25/25 |

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2510340
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: L2510340
Report Date: 02/26/25

Case Narrative (continued)

Report Submission

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

Sample Receipt

L2510340-02: The collection date and time on the chain of custody was 25-FEB-25 14:45; however, the collection date/time on the container label was 25-FEB-25 14:55. At the client's request, the collection date/time is reported as 25-FEB-25 14:55.

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: 02/26/25

METALS



Project Name: SPS TECHNOLOGIES**Lab Number:** L2510340**Project Number:** US0043268.2150**Report Date:** 02/26/25**SAMPLE RESULTS**

Lab ID: L2510340-01

Date Collected: 02/25/25 13:30

Client ID: OF004_022525

Date Received: 02/25/25

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 |
|-------------------------------------|--------|-----------|-------|-------|--------|--------------------|------------------|------------------|----------------|----------------------|---------|
| Total Metals - Mansfield Lab | | | | | | | | | | | |
| Aluminum, Total | 22.52 | | ug/l | 10.00 | 3.270 | 1 | 02/26/25 07:26 | 02/26/25 11:46 | EPA 3005A | 3,200.8 | NTB |
| Copper, Total | 13.26 | | ug/l | 1.000 | 0.3840 | 1 | 02/26/25 07:26 | 02/26/25 11:46 | EPA 3005A | 3,200.8 | NTB |
| Iron, Total | 54.77 | | ug/l | 50.00 | 19.10 | 1 | 02/26/25 07:26 | 02/26/25 11:46 | EPA 3005A | 3,200.8 | NTB |
| Lead, Total | 0.7243 | J | ug/l | 1.000 | 0.3430 | 1 | 02/26/25 07:26 | 02/26/25 11:46 | EPA 3005A | 3,200.8 | NTB |



Project Name: SPS TECHNOLOGIES**Lab Number:** L2510340**Project Number:** US0043268.2150**Report Date:** 02/26/25**SAMPLE RESULTS**

Lab ID: L2510340-02

Date Collected: 02/25/25 14:55

Client ID: OF00678_022525

Date Received: 02/25/25

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 |
|-------------------------------------|--------|-----------|-------|-------|--------|--------------------|------------------|------------------|----------------|----------------------|---------|
| Total Metals - Mansfield Lab | | | | | | | | | | | |
| Aluminum, Total | 74.25 | | ug/l | 10.00 | 3.270 | 1 | 02/26/25 07:26 | 02/26/25 11:50 | EPA 3005A | 3,200.8 | NTB |
| Copper, Total | 3.110 | | ug/l | 1.000 | 0.3840 | 1 | 02/26/25 07:26 | 02/26/25 11:50 | EPA 3005A | 3,200.8 | NTB |
| Iron, Total | 334.5 | | ug/l | 50.00 | 19.10 | 1 | 02/26/25 07:26 | 02/26/25 11:50 | EPA 3005A | 3,200.8 | NTB |
| Lead, Total | 2.102 | | ug/l | 1.000 | 0.3430 | 1 | 02/26/25 07:26 | 02/26/25 11:50 | EPA 3005A | 3,200.8 | NTB |



Project Name: SPS TECHNOLOGIES

Lab Number: L2510340

Project Number: US0043268.2150

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): 01-02 Batch: WG2034142-1 | | | | | | | | | |
| Aluminum, Total | ND | ug/l | 10.00 | 3.270 | 1 | 02/26/25 07:26 | 02/26/25 10:49 | 3,200.8 | NTB |
| Copper, Total | ND | ug/l | 1.000 | 0.3840 | 1 | 02/26/25 07:26 | 02/26/25 10:49 | 3,200.8 | NTB |
| Iron, Total | ND | ug/l | 50.00 | 19.10 | 1 | 02/26/25 07:26 | 02/26/25 10:49 | 3,200.8 | NTB |
| Lead, Total | ND | ug/l | 1.000 | 0.3430 | 1 | 02/26/25 07:26 | 02/26/25 10:49 | 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: L2510340

Report Date: 02/26/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG2034142-2 | | | | | | | | |
| Aluminum, Total | 108 | | - | | 85-115 | - | | |
| Copper, Total | 108 | | - | | 85-115 | - | | |
| Iron, Total | 113 | | - | | 85-115 | - | | |
| Lead, Total | 91 | | - | | 85-115 | - | | |

Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Lab Number: L2510340

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): 01-02 QC Batch ID: WG2034142-3 QC Sample: L2510339-01 Client ID: MS Sample | | | | | | | | | | | | |
| Aluminum, Total | 84.73 | 2000 | 2258 | 109 | | - | - | | 70-130 | - | | 20 |
| Copper, Total | 2.957 | 250 | 271.9 | 108 | | - | - | | 70-130 | - | | 20 |
| Iron, Total | 211.8 | 1000 | 1290 | 108 | | - | - | | 70-130 | - | | 20 |
| Lead, Total | 0.4176J | 530 | 500.0 | 94 | | - | - | | 70-130 | - | | 20 |

INORGANICS & MISCELLANEOUS

Project Name: SPS TECHNOLOGIES

Lab Number: L2510340

Project Number: US0043268.2150

Report Date: 02/26/25

SAMPLE RESULTS

Lab ID: L2510340-01

Date Collected: 02/25/25 13:30

Client ID: OF004_022525

Date Received: 02/25/25

Sample Location: JENKINTOWN, PA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|-------|------|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total Suspended | 13000 | | ug/l | 5000 | NA | 1 | - | 02/26/25 06:36 | 121,2540D | BAY |
| Nitrogen, Nitrate/Nitrite | 2600 | | ug/l | 100 | 46. | 1 | - | 02/26/25 08:10 | 44,353.2 | KAF |
| Chemical Oxygen Demand | 68000 | | ug/l | 20000 | 6000 | 1 | 02/26/25 09:25 | 02/26/25 11:55 | 44,410.4 | CVN |



Project Name: SPS TECHNOLOGIES

Lab Number: L2510340

Project Number: US0043268.2150

Report Date: 02/26/25

SAMPLE RESULTS

Lab ID: L2510340-02

Date Collected: 02/25/25 14:55

Client ID: OF00678_022525

Date Received: 02/25/25

Sample Location: JENKINTOWN, PA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|-------|------|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total Suspended | 18000 | | ug/l | 5000 | NA | 1 | - | 02/26/25 06:36 | 121,2540D | BAY |
| Nitrogen, Nitrate/Nitrite | 2500 | | ug/l | 100 | 46. | 1 | - | 02/26/25 08:14 | 44,353.2 | KAF |
| Chemical Oxygen Demand | 7700 | J | ug/l | 20000 | 6000 | 1 | 02/26/25 09:25 | 02/26/25 11:55 | 44,410.4 | CVN |



Project Name: SPS TECHNOLOGIES

Lab Number: L2510340

Project Number: US0043268.2150

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): 01-02 Batch: WG2034156-1 | | | | | | | | | |
| Solids, Total Suspended | ND | ug/l | 5000 | NA | 1 | - | 02/26/25 06:36 | 121,2540D | BAY |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG2034210-1 | | | | | | | | | |
| Nitrogen, Nitrate/Nitrite | ND | ug/l | 100 | 46. | 1 | - | 02/26/25 03:47 | 44,353.2 | KAF |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG2034260-1 | | | | | | | | | |
| Chemical Oxygen Demand | ND | ug/l | 20000 | 6000 | 1 | 02/26/25 09:25 | 02/26/25 11:53 | 44,410.4 | CVN |



Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2510340

Report Date: 02/26/25

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|--|-----------|------|-----------|------|------------------|-----|------|------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2034156-2 | | | | | | | | |
| Solids, Total Suspended | 103 | | - | | 80-120 | - | | |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2034210-2 | | | | | | | | |
| Nitrogen, Nitrate/Nitrite | 102 | | - | | 90-110 | - | | |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2034260-2 | | | | | | | | |
| Chemical Oxygen Demand | 94 | | - | | 90-110 | - | | |



Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Lab Number: L2510340

Project Number: US0043268.2150

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): 01-02 QC Batch ID: WG2034210-4 QC Sample: L2510340-01 Client ID: OF004_022525 | | | | | | | | | | | | |
| Nitrogen, Nitrate/Nitrite | 2600 | 4000 | 6200 | 90 | - | - | - | - | 80-120 | - | - | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG2034260-3 QC Sample: L2509660-01 Client ID: MS Sample | | | | | | | | | | | | |
| Chemical Oxygen Demand | 18000J | 238000 | 260000 | 109 | - | - | - | - | 90-110 | - | - | 20 |

Lab Duplicate Analysis

Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2510340

Report Date: 02/26/25

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG2034156-3 QC Sample: L2469027-78 Client ID: DUP Sample | | | | | | |
| Solids, Total Suspended | 1700000 | 1900000 | ug/l | 11 | | 32 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG2034210-3 QC Sample: L2510340-01 Client ID: OF004_022525 | | | | | | |
| Nitrogen, Nitrate/Nitrite | 2600 | 2600 | ug/l | 0 | | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG2034260-4 QC Sample: L2509660-01 Client ID: DUP Sample | | | | | | |
| Chemical Oxygen Demand | 18000J | ND | ug/l | NC | | 20 |

Project Name: SPS TECHNOLOGIES**Lab Number:** L2510340**Project Number:** US0043268.2150**Report Date:** 02/26/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

| Cooler | Custody Seal |
|---------------|---------------------|
| A | Present/Intact |
| B | Present/Intact |
| C | Present/Intact |

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|-------------------------------|---------------|-------------------|-----------------|-------------------|-------------|----------------|-------------------------|---|
| L2510340-01A | Plastic 250ml HNO3 preserved | C | <2 | <2 | 3.0 | Y | Present/Intact | | PB-2008T-PPB(180),FE-2008T-PPB(180),AL-2008T-PPB(180),CU-2008T-PPB(180) |
| L2510340-01B | Plastic 250ml H2SO4 preserved | C | <2 | <2 | 3.0 | Y | Present/Intact | | NO3/NO2-353-PPB(28),COD-410-PPB(28) |
| L2510340-01C | Plastic 950ml unpreserved | C | 7 | 7 | 3.0 | Y | Present/Intact | | TSS-2540-PPB(7) |
| L2510340-02A | Plastic 250ml HNO3 preserved | C | <2 | <2 | 3.0 | Y | Present/Intact | | PB-2008T-PPB(180),FE-2008T-PPB(180),AL-2008T-PPB(180),CU-2008T-PPB(180) |
| L2510340-02B | Plastic 250ml H2SO4 preserved | C | <2 | <2 | 3.0 | Y | Present/Intact | | NO3/NO2-353-PPB(28),COD-410-PPB(28) |
| L2510340-02C | Plastic 950ml unpreserved | C | 7 | 7 | 3.0 | Y | Present/Intact | | TSS-2540-PPB(7) |

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2510340
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



Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2510340
Report Date: 02/26/25

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
Project Number: US0043268.2150

Lab Number: L2510340
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: L2510340
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.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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

Pace Analytical Services LLC

ID No.:17873

Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: **Certificate/Approval Program Summary**

Page 2 of 2

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.

L2510340 26FEB25
GOLDER - NJ



CHAIN OF CUSTODY

PAGE 1 OF 1

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 #: US0643268.2150
Project Manager: Torah Karl
ALPHA Quote #:

Report Information - Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #:

Client Information

Client: WSPUSA Inc
Address: 10 Lake Center Dr
Suite 205, Marlton, NJ 08035
Phone: 856-793-2005
Fax: 856-793-2006
Email: Torah.karl@wsp.com
Stacy.maxon@wsp.com
 These samples have been previously analyzed by Alpha

Turn-Around Time

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

Regulatory Requirements/Report Limits

| State /Fed Program | Criteria |
|--------------------|----------|
| PA | |

Other Project Specific Requirements/Comments/Detection Limits:
* Attorney-client privileged + confidential

| ANALYSIS | SAMPLE HANDLING | | | | | | | | | | TOTAL # BOTTLES | | | | | | | | | | |
|----------|--------------------------------|-------------------------------|-----------------------------|-----------------------|---------------------|-------------------|-------------------|------------|------|------------|-----------------|-----------|--------------|-----------|--|--|--|--|--|--|--|
| | Total Suspended Solids 5M2540D | Chemical Oxygen Demand E410.4 | Nitrate-Nitrite as N E333.2 | Total Aluminum E200.8 | Total Copper E200.8 | Total Iron E200.8 | Total Lead E200.8 | Filtration | Done | Not needed | | Lab to do | Preservation | Lab to do | | | | | | | |
| | X | X | X | X | X | X | X | | | | | | | | | | | | | | |
| | X | X | X | X | X | X | X | | | | | | | | | | | | | | |

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials |
|-----------------------------|----------------|------------|------|---------------|--------------------|
| | | Date | Time | | |
| 10340-01 | 0F007-022525 | 2/25/25 | 1330 | SW | EMR |
| 02 | 0F00678-022525 | 2/25/25 | 1445 | SW | EMR |

| | | | | | | | |
|----------------|---|---|---|---|---|---|---|
| Container Type | P | P | P | P | P | P | P |
| Preservative | A | D | D | C | C | C | C |

Relinquished By: *Anthony Green* Date/Time: 2/25/25 16:10
 Received By: *Anthony Green* Date/Time: 2/25/25 16:10
 Date/Time: 2/25/25 19:20
 Date/Time: 2/25/25 19:20
 Date/Time: FEB 25 2025 02:45

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.

2/26 0245

CUSTODY SEAL

Date 2/25/25
Signature [Signature]

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