



May 29, 2024

Mr. Matthew Huyser  
On-Scene Coordinator (OSC)  
U.S. Environmental Protection Agency (EPA), Region 4  
61 Forsyth Street, SW, 11th Floor  
Atlanta, Georgia 30303

**Subject:       Emergency Response Letter Report - FINAL  
                  East Parker Street Textile Mill Fire  
                  Graham, Alamance County, North Carolina  
                  Contract Number: 68HE0519D0006  
                  Task Order / Task Order Line-Item No.: 68HE0419F0082 / 82-073**

Dear Mr. Huyser:

The Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) is submitting this report to summarize the emergency response (ER) activities conducted from November 15 through 18, 2023, at the East Parker Street Mill Fire in Graham, Alamance County, North Carolina. This report includes five enclosures and three attachments. Enclosure 1 contains figures illustrating the site location, site layout with air monitoring station locations, and sample locations. Enclosure 2 contains data tables summarizing air monitoring and multimedia sampling results. Enclosure 3 contains a photographic log of response activities. Enclosure 4 contains a copy of the Tetra Tech START logbook notes. Enclosure 5 contains the Tetra Tech data validation reports. Attachment 1 contains National Response Center (NRC) report #1384314. Attachment 2 contains the VIPER data summary reports. Attachment 3 contains the laboratory analytical data packages.

## BACKGROUND

On November 12, 2023, local firefighters responded to a fire at the abandoned former Culp Weaving textile facility located at 300 East Parker Street in Graham, Alamance County, North Carolina (see Figure 1 of Enclosure 1). The firefighters extinguished the fire, but they were not able to stop smoldering material beneath a roof that had collapsed. The smoke generated from the smoldering migrated into surrounding residential neighborhoods posing potential health risks.

On November 14, 2023, Alamance County Emergency Management and the fire department exhausted all avenues to mitigate the smoldering and smoke, so they contacted the NRC (see Attachment 1 for NRC report #1384314). The EPA Region 4 phone duty officer mobilized Federal OSC Matthew Huyser and Tetra Tech START to conduct emergency response activities.

## EMERGENCY RESPONSE ACTIVITIES

On November 15, 2023, EPA and Tetra Tech START met with local fire fighters and law enforcement to discuss emergency response activities and environmental monitoring and sampling needs.

### **Air Monitoring**

On November 15, 2023, EPA tasked Tetra Tech START to conduct air monitoring at four locations in the surrounding residential area to monitor exposures to the community using the following equipment at each location: Honeywell AreaRAE Pros (AreaRAE Pro) to monitor for carbon monoxide (CO), hydrogen sulfide (H<sub>2</sub>S), hydrogen cyanide (HCN), lower explosive limit (LEL), and oxygen (O<sub>2</sub>) as well as a photoionization detector (PID) with a 10.6 electron volt (eV) bulb to detect volatile organic compounds (VOCs); a Honeywell Single Point Monitor Flex (SPM Flex) to monitor for phosgene (COCl<sub>2</sub>), and a TSI, Inc. DustTrak DRX 8533 EP Aerosol Monitor (DustTrak) to monitor for respirable particulate matter (PM<sub>2.5</sub>) and total particulates.

Tetra Tech START deployed an air monitoring stations using VIPER, a remote telemetry system, to conduct air monitoring at the following four residential locations (see Figure 2 in Enclosure 1):

- Station 1 – Approximately 1,000 feet south of the fire on North Melville Street.
- Station 2 – Approximately 500 feet southwest of the fire on East Parker Street.
- Station 3 – Approximately 1,000 feet north of the fire on Jeffreys Street.
- Station 4 – Approximately 500 feet southeast of the fire on East Parker Street.

All four air monitoring stations operated from the evening of November 15 through the morning of November 18. A direct data service from the VIPER.net server was added to a publicly available map on the EPA Region 4 ER Cloud Server. The map was embedded in a publicly available StoryMap on EPA's GeoPlatform Online then posted to the project site's webpage on [response.epa.gov](https://response.epa.gov). This StoryMap gave the community access to real-time data from the air monitoring activities.

Data summary reports were prepared each morning and provided to the City of Graham Fire Department and Alamance County Emergency Management (see Attachment 2). A discussion of the findings was provided on page 2 of each data summary report.

- Station 1 - The level of health concern for PM<sub>2.5</sub> at this location was consistently at Unhealthy for Sensitive Groups over a 24-hour average, for all three, 24-hour periods.
- Station 2 - The level of health concern for PM<sub>2.5</sub> at this location fluctuated between Moderate and Unhealthy for Sensitive Groups over a 24-hour average, for the three, 24-hour periods.
- Station 3 - The level of health concern for PM<sub>2.5</sub> at this location fluctuated between Moderate and Unhealthy for Sensitive Groups over a 24-hour average, for the three, 24-hour periods.
- Station 4 - The level of health concern for PM<sub>2.5</sub> at this location measured Unhealthy on two days and Very Unhealthy on one day over a 24-hour average, but that final day did not include a full 24 hours during the daytime when PM concentrations are lowest.

### **Air Sampling**

On November 16 and 17, 2023, Tetra Tech START collected air samples to determine the presence of airborne asbestos, VOCs, and metals at the following locations (see Figure 2 in Enclosure 1):

- Station 1 – Approximately 1,000 feet south of the fire on North Melville Street. This station was not sampled for VOCs at EPA direction since there were only four Summa canisters

available.

- Station 2 – Approximately 500 feet southwest of the fire on East Parker Street. This station was not sampled for VOCs at EPA direction since there were only four Summa canisters available.
- Station 3 – Approximately 1,000 feet north of the fire on Jeffreys Street.
- Station 4 – Approximately 500 feet southeast of the fire on East Parker Street.
- Station 5 – Approximately 50 feet to the west of the smoldering fire at the former textile mill facility at 300 East Parker Street. Two VOC samples were collected at this station. One on November 16 and another on November 17.

Asbestos samples were collected using Gillian Aircon-2 Area Air Sampling Pumps (AirCon) equipped with a 0.8 micrometer, 25-millimeter mixed cellulose ester (MCE) filter air sampling cassette. VOC samples were collected using a laboratory certified Summa canister. Metals samples were collected using a 0.8 micrometer, 37-millimeter mixed cellulose ester (MCE) filter air sampling cassette.

Tetra Tech START collected air samples in accordance with EPA Region 4 Laboratory Services and Applied Sciences Division (LSASD) Field Branches Quality System and Technical Procedures (FBQSTP) for *Ambient Air Sampling* (SESDPROC-303-R5, March 30, 2016).

#### **Suspected Asbestos-Containing Materials Sampling (SACM)**

On November 16, 2023, Tetra Tech START collected five samples of suspected asbestos-containing roofing material that appeared to have originated from the fire and landed in the yard of a residential yard on East Parker Street. All five samples were homogeneous in color and texture and considered non-organically bound materials. Tetra Tech START submitted the samples to Eurofins CEI in Cary, North Carolina for analysis via polarized light microscopy (PLM).

#### **Water Monitoring**

On November 17, 2023, EPA tasked Tetra Tech START with collecting water quality monitoring data using a Horiba U-52 multiparameter meter to measure pH, conductivity, dissolved oxygen, turbidity, oxidation reduction potential, and temperature. The data collected was determined to be invalid due to the field team not soaking the instrument prior to recording data.

#### **Sediment Sampling**

On November 17, 2023, Tetra Tech START collected six sediment samples along an unnamed creek that flows approximately 1,000 to 1,500 feet diagonally from west to south of the East Parker Street Mill facility to evaluate whether water used during fire suppression activities carried potential contamination into the creek. Sediment samples were collected using Terra Core soil sample kits preserved with methanol and sodium bisulfate at the following locations (See Figure 3 in Enclosure 1):

- PSMF-LOC1-111723 and PSMF-LOC1-111723-DUP were collected southwest of the Parker Street Mill facility from pooled water by a culvert.
- PSMF-LOC2-111723 was collected south of the Parker Street Mill facility from the middle of the unnamed creek.
- PSMF-LOC3-111723 was collected south of the Parker Street Mill facility from the middle of the creek and further downstream than PSMF-LOC2-111723.
- Sample PSMF-BACK-111723 and PSMF-BACK-111723-DUP were taken west of the Site

in the middle of the unnamed creek at an upstream location to serve as background samples. Tetra Tech START collected sediment samples in accordance with EPA Region 4 LSASD FBQSTP for *Sediment Sampling* (LSASDPROC-200-R5, April 22, 2023).

## ANALYTICAL RESULTS

Ambient air, suspected asbestos containing material, and sediment samples were collected on November 16 and 17, 2023. The complete laboratory analytical report is included in Attachment 3. The complete Tetra Tech stage 2A data validation report is included in Enclosure 5.

### Air Sampling Analytical Data Summary

Tetra Tech START collected air samples at five onsite locations and submitted them to Enthalpy Analytical LLC, in Durham, North Carolina, for the following analyses:

- Asbestos in air via National Institute for Occupational Safety and Health (NIOSH) Method 7400, *Asbestos and Other Fibers by Phase Contrast Microscopy (PCM)* and NIOSH Method 7402, *Asbestos by Transmission Electron Microscopy (TEM)* with results reported as a PCM-equivalent (PCME).
- Target Compound List VOCs via EPA Compendium of Methods for the *Determination of Toxic Organic Compounds in Ambient Air*, Compendium Method TO-15, *Determination of VOCs in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*.
- Target Analyte List metals via NIOSH Method 7303, *Elements by Inductively Coupled Plasma (Hot Block/HCl/HNO<sub>3</sub> Digestion)*.

Tetra Tech START compared the asbestos air sampling analytical results to 0.001 fibers per cubic centimeter (f/cc) as calculated for residential areas using default exposure assumptions in accordance with the Office of Land and Emergency Management Directive No. 9200.0-90, Framework for Investigating Asbestos-Contaminated Comprehensive Environmental Response, Compensation and Liability Act Sites.

Tetra Tech START compared the TCL VOCs and TAL metals analytical results to the EPA Regional Screening Levels (RSLs) for residential ambient air with a target cancer risk of 1E-06 and a target hazard quotient of 1.0, dated November 2023. Tetra Tech START also compared the TCL VOCs and TAL metals analytical results to the EPA Regional Management Levels (RMLs) for residential ambient air with a target cancer risk of 1E-04 and a target hazard quotient of 3.0, dated November 2023.

The air sampling analytical results are summarized in Table 1 of Enclosure 2. The following air sample analytical results exceeded both the EPA RSLs and the EPA RMLs:

- Station 3 – acrolein (0.453 µg/kg).
- Station 4 – acrolein (0.908 µg/kg).
- Station 5 – acrolein (1.9 µg/kg).

### Sediment Sampling Analytical Data Summary

Tetra Tech START collected six samples at four onsite locations and submitted them to Pace Analytical Services, LLC, in Huntersville, North Carolina for US EPA Methods SW-846 8260D for VOCs, SW-846 8270E for SVOCs, SW-846 6010D for metals, and SW-846 8082A for PCBs. Tetra



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Tetra Tech START compared the sediment sampling analytical results to the background samples, PSMF-BACK-111723 and PSMF-BACK-111723-DUP, and to the EPA RSLs for residential soil with a target cancer risk of  $1E-06$  and a target hazard quotient of 1.0, dated November 2023. Tetra Tech START also compared the sediment sampling analytical results to the EPA Regional Management Levels (RMLs) for residential soil with a target cancer risk of  $1E-04$  and a target hazard quotient of 3.0, dated November 2023.

The sediment analytical results are summarized in Table 3 of Enclosure 2. None of the sediment analytical results exceeded both the EPA RSLs and the EPA RMLs.

#### **Asbestos Bulk Sampling Analytical Data Summary**

Analytical results of the asbestos samples collected at the residence on East Parker Street indicated no asbestos was detected (see Table 3 in Enclosure 2). To help confirm results of the PLM analytical results for samples determined to be homogeneous, EPA submitted one of the five samples for analysis via transmission electron microscopy, or TEM. Analytical results of the sample submitted for TEM analysis indicated no detection of asbestos; therefore, the other samples analyzed via PLM can be considered non-asbestos containing materials and removal of the roofing materials from the residence on East Parker Street as asbestos-containing materials is not required.


#### **SUMMARY OF RESPONSE ACTIVITIES**

From November 15 through November 18, 2023, EPA and Tetra Tech START collected air, sediment, and SACM samples and conducted air monitoring activities at the East Parker Street Textile Mill and the surrounding community of Graham, North Carolina.

The data from the air monitoring and multimedia sample collection did not indicate potential health risks requiring a greater response to protect public health. On November 18, 2023, EPA and Tetra Tech START completed emergency response activities and demobilized from the site.


If you have any questions or need additional copies of this report, please call me, Josiah Williams, at (678) 775-3118.

Sincerely,



Josiah Williams

Tetra Tech START V Project Manager



Andrew F. Johnson

Tetra Tech START V Program Manager

Enclosures (5)

Attachments (3)

cc: Katrina Jones, EPA Project Officer  
Irealous Layton, EPA Project Officer  
Angel Reed, Tetra Tech START V Document Control Coordinator  
Paul Prys, Tetra Tech START V Task Order Monitor

## **ENCLOSURE 1**

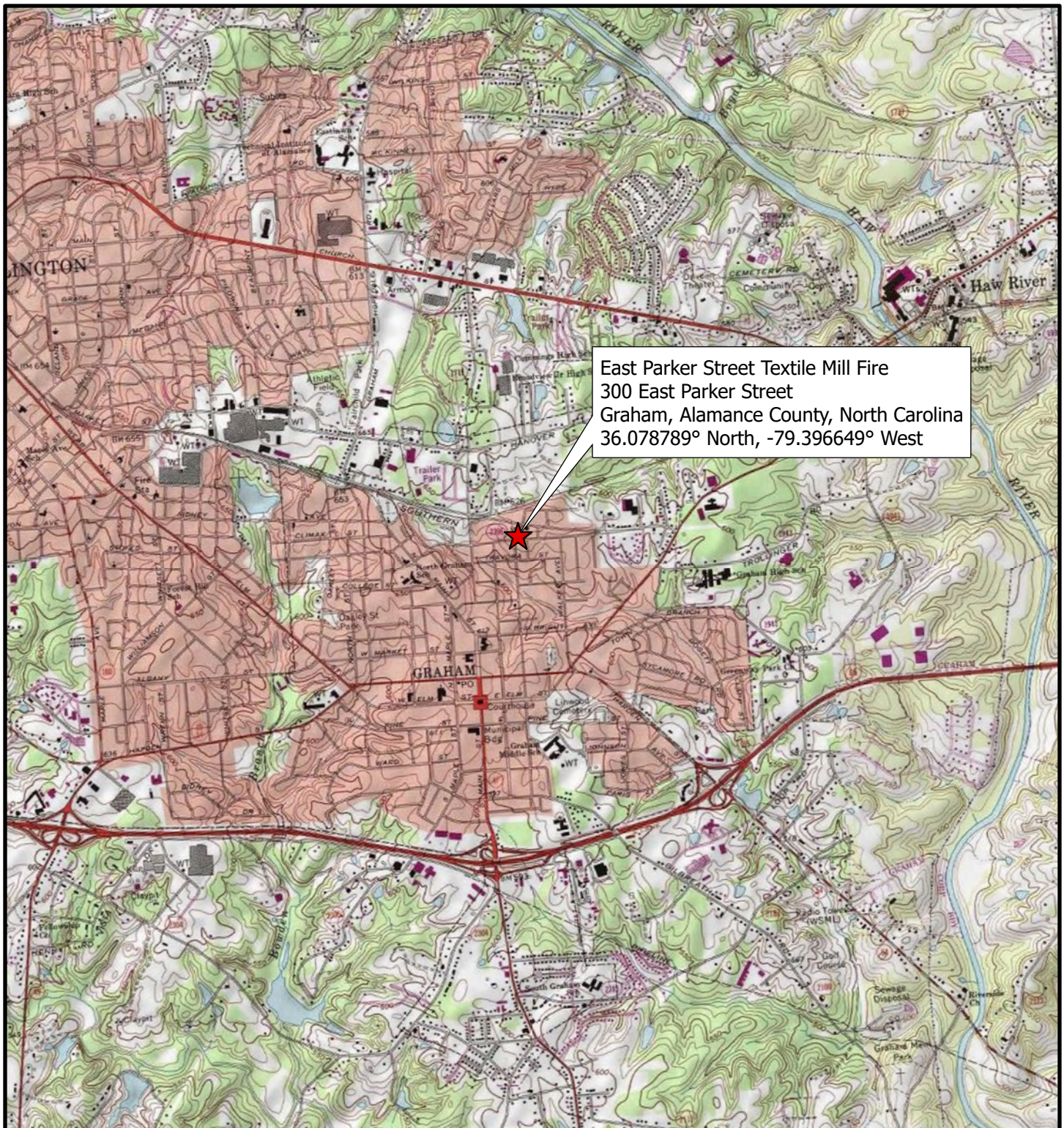
### **FIGURES**

(Three Pages)

#### **Figure**

1. SITE LOCATION
2. SITE LAYOUT
3. SAMPLE LOCATIONS

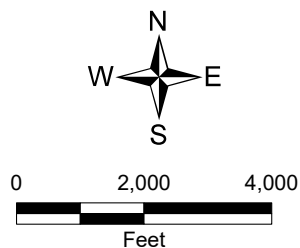




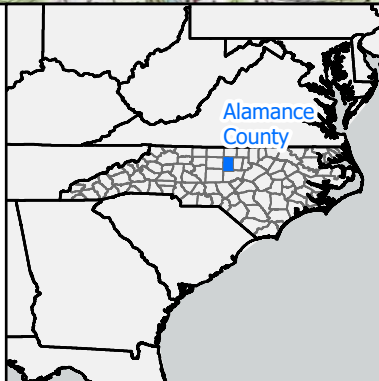
East Parker Street Textile Mill Fire  
 300 East Parker Street  
 Graham, Alamance County, North Carolina  
 36.078789° North, -79.396649° West

**Legend**

★ Site Location



Map Source:  
 USGS 7.5 Minute Topographic Quadrangle Maps:  
 Burlington, NC 1983.



United States  
 Environmental Protection Agency  
 Region 4

**FIGURE 1**

Site Location

**Site Name:** East Parker Street  
 Textile Mill Fire  
**TO No.:** 82-073

**City:** Graham      **County:** Alamance      **State:** North Carolina



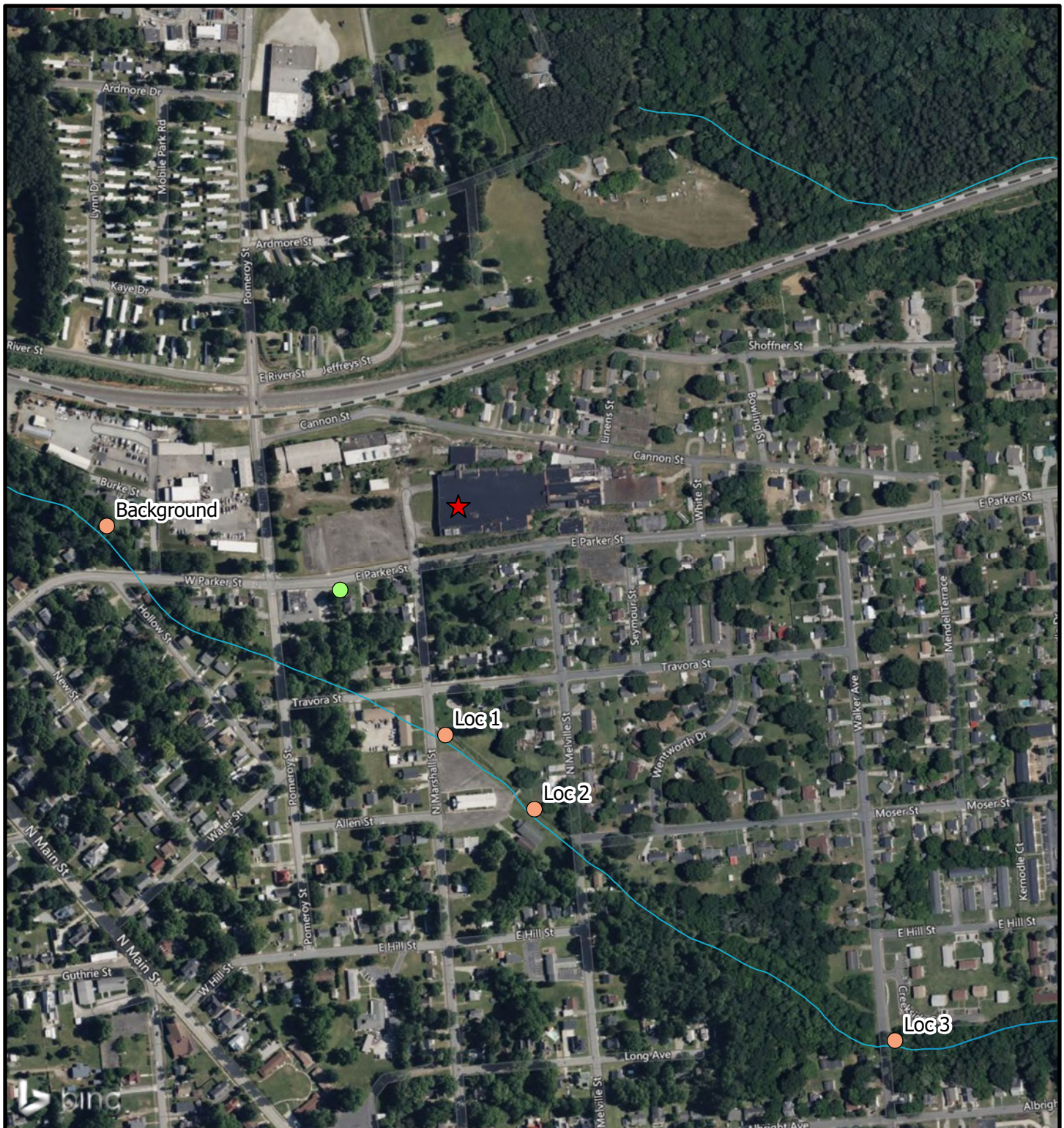
**TETRA TECH**

**Date:** 12/18/2023  
**Analyst:** MORGAN.TORRES





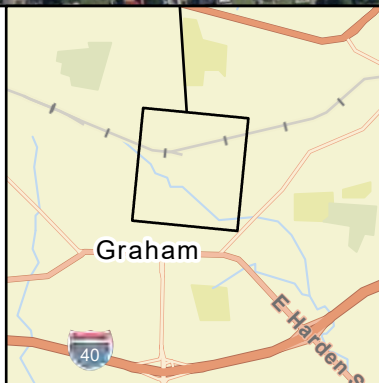




### Legend

- ★ Site Location
- Suspected Asbestos Containing Materials (SACM)
- Sediment

0 250 500  
Feet



United States  
Environmental Protection Agency  
Region 4

### FIGURE 3 Sample Location

**Site Name:** East Parker Street  
Textile Mill Fire

**TO No.:** 82-073

**City:**  
Graham

**County:**  
Alamance

**State:**  
North Carolina



**TETRA TECH**

**Date:**  
4/3/2024  
**Analyst:**  
MORGAN TORRES

**ENCLOSURE 2**

**DATA SUMMARY TABLES OF LABORATORY ANALYTICAL RESULTS**

(Three Pages)



TABLE 1  
VALIDATED LABORATORY ANALYTICAL RESULTS  
AIR SAMPLES

Analyte	Comparison Criteria			Station 1	Station 2	Station 3	Station 4	Station 5	Station 5
	Asbestos Residential Exposure Directive*	EPA Regional Screening Levels for Residential Air	EPA Removal Management Levels for Residential Air	PSMF-S11-A5-111723 PSMF-S11-M-111723	PSMF-S12-A5-111623 PSMF-S12-A5-111723 PSMF-S12-M-111723	PSMF-S13-A5-111623 PSMF-S12-A5-111723 PSMF-S13-M-111723 PSMF-S13-VOC-111623	PSMF-S14-A5-111623 PSMF-S14-A5-111723 PSMF-S14-M-111723 PSMF-S14-VOC-111723	PSMF-S15-A5-111623 PSMF-S15-VOC-111623	PSMF-S15-A5-111723 PSMF-S15-M-111723 PSMF-S15-VOC-111723
Asbestos (f/cc)	0.001	NA	NA	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected
<b>Metals (µg/m<sup>3</sup>)</b>									
Aluminum	NA	5.2	16	0.298 J	0.177 U	0.226 J	0.177 U	NS	0.229 J
Barium	NA	0.52	1.6	0.0393	0.0272 J	0.0287 J	0.0200 J	NS	0.035 J
Cadmium	NA	0.0016	0.031	<b>0.00950</b> J	0.00323 U	0.00323 U	0.00323 U	NS	0.00323 U
Calcium	NA	NL	NL	3.47	1.83	2.51	2.21	NS	2.9
Chromium <sup>1</sup>	NA	see footnote	see footnote	0.183	0.148	0.117	0.184	NS	0.139
Copper	NA	NL	NL	0.118 J	0.0651 J	0.0632 J	0.0663 J	NS	0.0635 J
Iron	NA	NL	NL	1.48	0.678 J	0.533 U	8.97	NS	3.97
Magnesium	NA	NL	NL	0.447 J	0.339 J	0.407 J	0.370 J	NS	0.365 J
Manganese	NA	0.052	0.16	<b>0.0566</b>	0.0204 J	0.0123 J	<b>0.0747</b>	NS	0.0396
Nickel	NA	NL	NL	0.0230 J	0.0217 J	0.0245 J	0.0295 J	NS	0.0312 J
Potassium	NA	NL	NL	0.888 J	0.817 J	0.662 J	0.63 J	NS	0.742 J
Sodium	NA	NL	NL	6.98	7.09	6.96	7.31	NS	6.30
Zinc	NA	NL	NL	0.511 J	0.277 J	0.106 J	0.293 J	NS	0.360 J
<b>Volatile Organic Compounds (µg/m<sup>3</sup>)</b>									
1,2,4-Trimethylbenzene	NA	63	190	NS	NS	0.242	0.710	1.94	0.763
1,3,5-Trimethylbenzene	NA	63	190	NS	NS	0.236 U	0.226 J	0.669	0.219 J
1,3-Butadiene	NA	0.094	6.3	NS	NS	<b>0.257</b>	<b>1.02</b>	<b>3.17</b>	<b>0.365</b>
1-Octene	NA	NL	NL	NS	NS	0.214 U	0.271	1.19	0.215 U
2,2,4-trimethylpentane	NA	NL	NL	NS	NS	0.516	1.37	2.55	1.83
4-Ethyltoluene	NA	NL	NL	NS	NS	0.242 U	0.237 J	0.662	0.231 J
Acetone	NA	NL	NL	NS	NS	7.60	16.20	10.20	12.20
Acetonitrile	NA	63	190	NS	NS	0.308	1.01	1.97	0.338
Acrolein	NA	0.021	0.063	NS	NS	<b>0.453</b>	<b>0.908</b>	<b>1.9</b>	<b>0.343</b>
Acrylonitrile	NA	0.041	4.1	NS	NS	0.107 U	<b>0.152</b>	<b>0.268</b>	0.105 U
Benzene	NA	0.36	36	NS	NS	<b>1.15</b>	<b>4.56</b>	<b>10.9</b>	<b>2.07</b>
Carbon disulfide	NA	730	2,200	NS	NS	0.150 U	0.134 J	0.144 U	0.147 U
Carbon tetrachloride	NA	0.47	47	NS	NS	0.427	0.448	0.445	0.438
Chloroform	NA	0.12	12	NS	NS	0.237 U	<b>0.209 J</b>	0.227 U	0.232 U
Chloromethane	NA	94	280	NS	NS	1.26	1.58	2.35	1.17
Cyclohexane	NA	6,300	19,000	NS	NS	0.784	1.20	2.39	1.17
Ethanol	NA	NL	NL	NS	NS	6.10	8.23	12.50	8.33
Ethyl acetate	NA	73	220	NS	NS	0.932	0.599	0.445	0.675
Ethylbenzene	NA	1.1	110	NS	NS	0.516	<b>2.4</b>	<b>6.35</b>	<b>1.34</b>
Freon 11 (CCl3F)	NA	NL	NL	NS	NS	1.24	1.29	1.31	1.25
Freon 113 (C2Cl3F3)	NA	NL	NL	NS	NS	0.462	0.472	0.445	0.464
Freon 12 (CCl2F2)	NA	NL	NL	NS	NS	2.28	2.34	2.26	2.30
Heptane	NA	420	1,300	NS	NS	0.629	1.19	2.18	1.28
Hexane	NA	14	1,400	NS	NS	0.618	2.04	4.29	2.25
Isopropyl alcohol	NA	NL	NL	NS	NS	5.53	3.63	1.65	3.16
Isopropylbenzene	NA	NL	NL	NS	NS	0.242 U	0.512	0.878	0.340
m-/p-Xylenes	NA	100	310	NS	NS	0.837	2.66	5.80	2.55
Methyl ethyl ketone (2-Butanone)	NA	5,200	16,000	NS	NS	0.718	1.55	1.61	0.866
Methyl isobutyl ketone	NA	3,100	9,400	NS	NS	0.206 U	0.317	0.302	0.216
Methyl methacrylate	NA	730	2,200	NS	NS	0.208 U	0.292	0.199 U	0.203 U
Methylene chloride	NA	100	1,900	NS	NS	0.508	0.518	0.460	0.463
Naphthalene	NA	0.083	8.3	NS	NS	0.256 U	<b>0.259</b>	<b>0.765</b>	0.250 U
n-Octane	NA	NL	NL	NS	NS	0.233 U	0.606	0.968	0.579
n-Propylbenzene	NA	NL	NL	NS	NS	0.244 U	0.214 J	0.531	0.239 U
o-Xylene	NA	100	310	NS	NS	0.288	0.917	1.99	0.903
Propylene	NA	3,100	9,400	NS	NS	1.77	6.99	13.70	3.75
Styrene	NA	1,000	3,100	NS	NS	0.725	5.77	20.50	1.55
Tetrahydrofuran	NA	2,100	6,300	NS	NS	0.145 U	0.396	0.397	0.192
Toluene	NA	5,200	16,000	NS	NS	4.13	6.79	12.30	5.27
Vinyl acetate	NA	210	630	NS	NS	0.174 U	0.300	0.167 U	0.239

Notes:

<sup>1</sup> NIOSH Method 7303 reports Chromium (CAS no. 7440-47-3) without differentiating between Trivalent and Hexavalent Chromium. EPA generic RML and RSL tables do not contain a RML or RSL value for Trivalent Chromium which is both common and an essential dietary element. By contrast, Hexavalent Chromium is uncommon and has RML and RSL values of 0.0012 µg/m<sup>3</sup> and 0.012 ng/m<sup>3</sup>, respectively.

**BOLD** Indicates analyte was greater than the regional screening levels.  
Indicates analyte was greater than the removal management levels.

\* Office of Land and Emergency Management Directive No. 9200.0-90, Framework for Investigating Asbestos-Contaminated Comprehensive Environmental Response, Compensation and Liability Act

AS: Asbestos

EPA: U.S. Environmental Protection Agency

f/cc: Fibers per cubic centimeter

J: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

M: Metals

NA: Not applicable

NL: Not listed

NS: Not sampled

St: Station

U: The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

µg/m<sup>3</sup>: Microgram per cubic meter

VOC: Volatile organic compounds

**TABLE 2**  
**VALIDATED LABORATORY ANALYTICAL RESULTS**  
**ASBESTOS BULK SAMPLES**

Analyte	EPSTF-RM-01	EPSTF-RM-02	EPSTF-RM-03	EPSTF-RM-04	EPSTF-RM-05
Asbestos	Analytes were non-detect for all samples				

Notes:

EPSTF: East Parker Street Tire Fire  
RM: Roofing Material

TABLE 3  
VALIDATED LABORATORY ANALYTICAL RESULTS  
SEDIMENT SAMPLES

Analyte	EPA Regional Screening Levels for Residential Soil	EPA Removal Management Levels for Residential Soil	PSMF-LOC1-111723	PSMF-LOC1-111723-DUP	PSMF-LOC2-111723	PSMF-LOC3-111723	PSMF-BACK-111723	PSMF-BACK-111723-DUP
<b>Volatile organic compounds (µg/kg)</b>								
Benzene	1,200	120,000	29.2 J+	7.7 UJ	11.5 J+	3.9 U	11.5 U	16.3 J+
Ethylbenzene	10,000	580,000	17.6 J+	10.4 J+	12.5 J+	3.6 U	11.5 U	8.1 U
m&p-Xylene	550,000	1,600,000	31.6 J+	15.3 UJ	16.6 UJ	7.1 U	22.9 U	16.1 U
Naphthalene	200,000	2,000	147	9.7 J	4.7 J	3.1 J	11.5 U	8.1 U
o-Xylene	640,000	1,900,000	13.8	7.7 UJ	8.3 UJ	3.6 U	11.5 U	8.1 U
Styrene	6,000	18,000	39.2	7.7 UJ	8.3 UJ	3.6 U	11.5 U	8.1 U
Tetrachloroethene	NL	NL	10.4 U	7.7 UJ	8.5 J	1.8 J	7.1 J	8.1 U
Toluene	4,900	15,000	54 J+	10.1 UJ	14.1 J+	5.2 U	17.9 J+	88 J+
Xylene (Total)	580,000	1,700,000	45.4 J+	15.3 UJ	16.6 UJ	7.1 U	22.9 U	16.1 U
<b>Semi-volatile organic compounds (µg/kg)</b>								
Benzo(a)anthracene	1,100	110,000	281 J	420 U	444 U	386 U	484 U	478 U
Benzo(a)pyrene	110	11,000	192 J	420 U	444 U	386 U	484 U	478 U
Benzo(b)fluoranthene	1,100	110,000	237 J	420 U	444 U	386 U	484 U	478 U
Chrysene	1,100,000	11,000,000	227 J	420 U	444 U	386 U	484 U	478 U
Fluoranthene	2,400,000	7,200,000	593	420 U	444 U	386 U	484 U	478 U
Phenanthrene	NL	NL	431	420 U	444 U	386 U	484 U	478 U
Pyrene	1,800,000	5,400,000	441	420 U	444 U	386 U	484 U	478 U
<b>Total Metals (mg/kg)</b>								
Aluminum	77,000	230,000	4,320	4,750	3,680	5,400	1,830	1,810
Arsenic	0.68	68	1.5 J	2.2	0.99 J	2.8	0.67 J	0.8 J
Barium	15,000	46,000	64.8	32.4	20.7	31.1	14.3	15.1
Beryllium	160	470	0.059 J	0.06 J	0.058 J	0.11	0.045 J	0.04 J
Cadmium	7.1	21	0.022 J	1.3	0.041 J	0.029 J	0.083 U	0.079 U
Calcium	NL	NL	1,400	1,340	1,030	1,720 J+	397	296
Chromium <sup>1</sup>	see footnote	see footnote	56.9	65.4 J+	22.6	67.9	12.4	10.4
Cobalt	23	70	1.6	7.3 J-	1.7	5.4 J	1.2	0.35 J
Copper	3,100	9,400	9.5	15.6	22.9	18.1	4.2	4.1
Iron	55,000	160,000	17,700	22,000	11,600	30,600	7,170	9,560
Lead	200	200	11	10.4	10.4	28 J-	3.6	3.7
Magnesium	NL	NL	2,110	2,590	1,380	1,530 J+	341	402
Manganese	1,800	5,500	194	245	90.6	249	36.4	45.6
Mercury	11	33	0.007 J	0.0071 U	0.014	0.0061 U	0.086 U	0.008 U
Nickel	NL	NL	6.8	7.8	4.5	6.8 J	2.1	1.9 J
Potassium	NL	NL	1,110	251 J	261 J	230 J	115 J	124 J
Sodium	NL	NL	29.7 J	38.6 J	32.5 J	45.1 J	20.5 J	19.5 J
Vanadium	390	1,200	43.1	50.8 J	35.4	103	29.9	27.9
Zinc	23,000	70,000	61.1	84.8 J-	41	53	11.7	12.2

Notes:

<sup>1</sup> EPA Method 6010D (SW-846) reports Chromium (CAS no. 7440-47-3) without differentiating between Trivalent and Hexavalent Chromium. EPA generic RML and RSL tables do not contain a RML or RSL value for Trivalent Chromium which is both common and an essential dietary element. By contrast, Hexavalent Chromium is uncommon and has RML and RSL values of 30 mg/kg and 0.3 mg/kg, respectively.

**BOLD:** Indicates analyte was greater than the regional screening levels.

**Indicates analyte was greater than the removal management levels.**

DUP: Duplicate sample

EPA: Environmental Protection Agency

J: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

J+: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.

J-: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.

LOC#: Sample location

mg/kg: Milligram per kilogram

mmddyy: Month, day, year

NL: Not listed

PSMF: Parker Street Mill Fire

U: The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ: The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

ug/Kg: Microgram per kilogram

**ENCLOSURE 3**  
**PHOTOGRAPHIC LOG**  
(Five Pages)



**OFFICIAL PHOTOGRAPH NO. 1**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TOLIN:</b>	0082-073	<b>Location:</b>	Graham, North Carolina
<b>Orientation:</b>	East	<b>Date:</b>	November 15, 2023
<b>Photographer:</b>	Branden Mangus, Tetra Tech	<b>Witness:</b>	John Hamel, Sustainment and Restoration Services (SRS)
<b>Subject:</b>	Smoldering remains of an abandoned textile facility at 300 East Parker Street in Graham, Alamance County, North Carolina, after a fire started on November 12, 2023. Smoke from smoldering material trapped beneath the collapsed roof migrated to nearby residential neighborhoods, posing potential health risks.		





**OFFICIAL PHOTOGRAPH NO. 2**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TOLIN:</b>	0082-073	<b>Location:</b>	Graham, North Carolina
<b>Orientation:</b>	West	<b>Date:</b>	November 16, 2023
<b>Photographer:</b>	Branden Mangus, Tetra Tech	<b>Witness:</b>	John Hamel, SRS
<b>Subject:</b>	Air monitoring station 2 approximately 500 feet southwest of the fire on East Parker Street. Equipment included (1) a Honeywell AreaRAE Pro to monitor for carbon monoxide (CO), hydrogen sulfide (H <sub>2</sub> S), hydrogen cyanide (HCN), lower explosive limit (LEL), and oxygen (O <sub>2</sub> ); (2) a photoionization detector (PID) with a 10.6 electron volt (eV) bulb to detect volatile organic compounds (VOCs); (3) a Honeywell Single Point Monitor Flex to monitor for phosgene (COCl <sub>2</sub> ); and (4) a TSI, Inc. DustTrak DRX Aerosol Monitor to monitor for respirable particulate matter (PM <sub>2.5</sub> ) and total particulates. A Gillian Aircon-2 Area Air Sampling Pump was equipped with a 0.8 micrometer, 25-millimeter mixed cellulose ester filter air sampling cassette to sample for asbestos in the breathing zone.		







**OFFICIAL PHOTOGRAPH NO. 3**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TOLIN:</b>	0082-073	<b>Location:</b>	Graham, North Carolina
<b>Orientation:</b>	Northeast	<b>Date:</b>	November 16, 2023
<b>Photographer:</b>	Branden Mangus, Tetra Tech	<b>Witness:</b>	John Hamel, SRS
<b>Subject:</b>	Air monitoring station 2 in relation to the smoldering textile facility.		





**OFFICIAL PHOTOGRAPH NO. 4  
U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TOLIN:</b>	0082-073	<b>Location:</b>	Graham, North Carolina
<b>Orientation:</b>	East	<b>Date:</b>	November 16, 2023
<b>Photographer:</b>	Branden Mangus, Tetra Tech	<b>Witness:</b>	John Hamel, SRS
<b>Subject:</b>	Air monitoring station 5 with a Gillian Aircon-2 Area Air Sampling Pump equipped with a 0.8 micrometer, 25-millimeter mixed cellulose ester filter air sampling cassette to sample for asbestos in the breathing zone, and a laboratory-certified Summa canister to sample for VOCs.		





**OFFICIAL PHOTOGRAPH NO. 5**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TOLIN:</b>	0082-073	<b>Location:</b>	Graham, North Carolina
<b>Orientation:</b>	East	<b>Date:</b>	November 16, 2023
<b>Photographer:</b>	Branden Mangus, Tetra Tech	<b>Witness:</b>	John Hamel, SRS
<b>Subject:</b>	One of four locations along an unnamed creek south of the facility fire where sediment sampling occurred.		



**ENCLOSURE 4**  
**LOGBOOK NOTES**  
(Six Pages)



*Rite in the Rain.*

ALL-WEATHER  
**UNIVERSAL**

Nº 371FX

**EAST PARKER STREET TEXTILE  
FIRE**

**103X90320082073**

1 OF 1



Name TETRA TECH DULUTH

Address 1955 EVERGREEN BLVD, BLDG 200,  
STE 300, DULUTH, GA 30096

Phone (678) 775-3080

Project EAST PARKER STREET TEXTILE FIRE



**RiteintheRain.com**

## CONTENTS

PAGE	REFERENCE	DATE
	EPA USC MATT HUYSER	
	TE START R1 JOSIAH WILLIAMS	
	TE START R2 TJ NETTLES	
	TE START R3 BRANDEN MANGUS	
	SRS JOHN HAM FL	
	CITY OF GRAHAM PUBLIC WORKS DIRECTOR	
	BURKE ROBERTSON	
	ALAMANCE COUNTY EMERGENCY MGMT	
	CHRISTOPHER SAUL (C)	
	GRAHAM POLICE CAPTAIN	
	DUANE FLOOD (C)	



WEATHER: High of 58°, cloudy, wind 3 mph ESE.  
1500: START on scene with OSC Huyser  
 Notes on the following for  
 response:

- Furniture, is inside the building, no chemicals or other hazardous substances were found within the factory, nor was any chemicals transported in or out of the factory
- START, EPA, and law enforcement meet at the eastern parking lot off E. Parker St. and N. Marshall St. to discuss procedure and synopsis of fire and T.N

Station #1 equipment:

SPM Flex 161  
 DustTrak DRX B10215  
 GW AERT 349  
 AR: 2274 #16

STATION #2

SPM FLEX: 162  
 DT: B10214  
 GW: 416  
 AR: 3001 #17

STATION 3

SPM FLEX: 159  
 DT: B10346  
 GW: 355  
 AR: 2272 #14

STATION 4

SPM FLEX: 163  
 DT: B10347  
 GW: 271  
 AR: 2273 #15

1600 START WILLIAMS, NETTLES, MANGUS, +  
 HAMEL DEPLOY VIPER. OSC HUYSER SELECTS  
 RESIDENTIAL STATION LOCATIONS + UPDATES  
 FIELD MAP.

2100 ALL STATIONS DEPLOYED. 1 DUSTTRAK,  
 1 SPM FLEX, 1 AREA RAE AT EACH LOCATION.

2200 OSC HUYSER, START MANGUS, + START  
 HAMEL WILL TAKE DAY SHIFT. START WILLIAMS  
 + NETTLES WILL TAKE NIGHT SHIFT.

2215 START WILLIAMS + NETTLES FIX STATION  
 1. DUSTTRAK BECAME UNPLUGGED DURING  
 SETUP.

2300 START FIX STATION 4. SMART GARDEN  
 POWER WAS SHUT OFF DURING SETUP



0000 ALL STATIONS UP + RUNNING, START  
CATCHES UP ON DOCUMENTATION + PREPS  
SAMPLING SUPPLIES FOR DAY SHIFT — R

0830 GATEWAY 349 DATE/TIME IS MESSED UP.

CORRECTED IT — R

0845 ALL READINGS ARE < ACTION LEVELS

0830 START CALIBRATES AIRCONS — R

0830 START TROUBLESHOOT'S AREA RAE HCN SENSOR  
ISSUE. CALIBRATES W/ HCN CAL GAS. ALSO  
GOES TO STATION 4 TO SEE WHY CONNECTION  
DROPPED — R

0815 STATION 4 SMART GATEWAY COMPUTER  
IS SHUTTING DOWN BY ITSELF DESPITE BEING ON  
SHORE POWER. THE LOW TEMPS (38°F) MIGHT  
BE THE REASON. WILL INFORM DAY SHIFT SO  
THAT THEY CAN TROUBLESHOOT — R

4 metals 2 VOCs 2 asbestos

2,3,4 stations

0650 Shift change, John and Brandon

1012 start Asbestos aircon<sup>63</sup> at station  
#5. will stop @ 1812. Summa can deploy  
at #5 @ 1021 —

1127 start Asbestos G2 aircon. Start  
Summa sample at same time. Station #3

0800 dry cal equipment trouble shoot. wrong equipment

1142 station #2 Deploy Asbestos G4  
Aircon —

1155 station #4 Deploy Asbestos G1

Aircon

1226 performed VOC bump test  
on station #3 Area RAE. Told Matt

1300 performed visual inspection  
on all stations —

1420 performed visual inspection  
on all station —

1200 station #3 spm Flex and Area RAE  
went offline. Inspected, determined it to  
be faulty power strip within weather  
box. Power re-wired to keep equipment  
charging. —

1600 station #4 gateway goes down.  
Begin to troubleshoot. —

1703 finish troubleshoot success

1800 dry cal machines arrive —

1815/20 collect stations 5 Summa and Asbestos  
sample. —

2000 SHIFT CHANGE. START WILLIAMS +  
NETTLES REPLACE HAMEL + MANGUS + OSC  
HUYSER —

WEATHER: INVERSION CAUSING SMOKE TO



6 11/16/23 EAST PARKER ST TEXTILE FIRE J WILLIAMS

SETTLE. OSC HUYSER RELIEVING RESIDENT COMPLAINTS. LOCAL FIRE DPT CAPTAIN TELLS OSC HUYSER THERE'S NOTHING MORE THEY CAN DO TO IMPROVE THE SITUATION. HE RECOMMENDS LETTING THE FIRE CONSUME ITSELF. 70°/36° CLEAR, NO RAIN FORECASTED ———— *dw*

2145 START CALIBRATES FLOW RATES + PREPS FOR SAMPLE DEPLOYMENTS. ———— *dw*

1000 START DEPLOY AIR SAMPLES ———— *dw*

1145 SAMPLING STATIONS ARE SET UP.

0630 START COLLECTS AIR SAMPLES ———— *dw*

0750 ARRIVED TO SITE TO SWITCH W/ NIGHT SHIFT ———— *dw*

0815 TROUBLESHOOT STATION 4 ———— *dw*

0840 MOBILIZE TO COMMAND POST TO MEET W/ + TRANSITION W/ NIGHT SHIFT ———— *dw*

0900 BEGIN TO PROCESS ALL AIR SAMPLES

1035 JOHN SNYDER ARRIVES TO SITE TO ASSIST W/ SAMPLE PROCESSING ———— *dw*

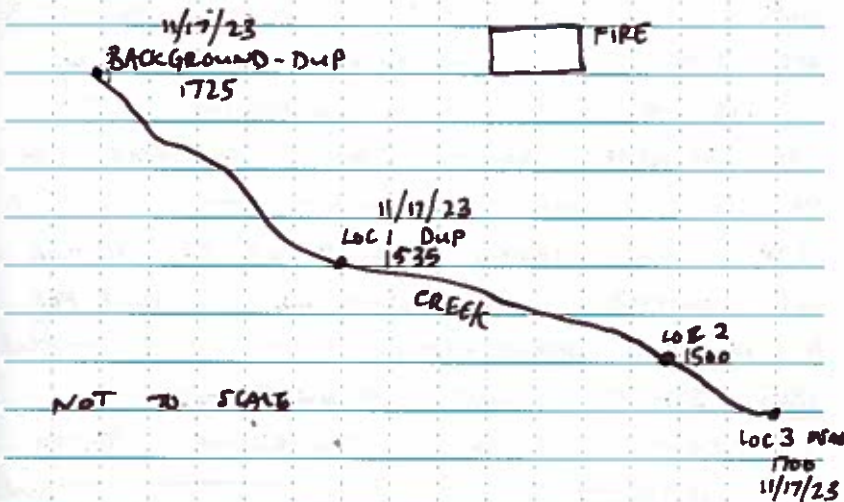
1100 START SNYDER GOES TO PACE LAB IN CHARLOTTE TO GET MORE TERRACORE KITS ———— *dw*

1400 COMPLETE PROCESSING OF AIR SAMPLES. BEGIN PREPPING AND LOADING EQUIPMENT FOR SEDIMENT SAMPLING. ———— *dw*

1500 BEGIN SEDIMENT SAMPLING ———— *dw*

Scale: 1 square =

11/17/23 EAST PARKER ST TEXTILE FIRE J WILLIAMS



1530 START SNYDER BACK ONSITE W/ TERRACORE KITS. TAKES PROCESSED AIR SAMPLES TO LAB.

1745 SEDIMENT SAMPLING COMPLETED (SEE DIAGRAM ABOVE) ———— *dw*

1830 REPORTED SAMPLE STATUS TO OSC HUYSER. WATER QUALITY MONITORING DATA INVALID DUE TO NOT SOAKING HORIAT BEFORE RECORDING DATA.

2000 SHIFT CHANGE: START WILLIAMS + NETTLETT ARRIVE ONSITE. OSC HUYSER + START MANGUM + HAMEL BRIEF ON SITE STATUS BEFORE GOING OFFSITE ———— *dw*

2100 START BUMP CHECKS AREARAES AT ALL 4 STATIONS. ORGANIZES BOX TRUCK ———— *dw*

2200 AREARAES RECONNECTED TO VIPER. RAIN STARTS

Scale: 1 square =

Rate in the Rain.

WEATHER: 68°/44° CLOUDY, LIGHT RAIN FORECASTED

2045 START COVERS STATION 2 SMART GATEWAY W/  
PLASTIC TO PROTECT FROM INCLEMENT WEATHER.

0200 AREARRIES DOWN. START RECONNECTS THEM  
IN SAFETY SUITE ————— *SW*

0230 START BEGINS LOADING UP EPA TRAILER  
W/ EQUIPMENT NOT BEING USED IN PREP FOR  
A MORNING DEMOBILIZATION ————— *SW*

0315 START CHECKS STATION 5 FOR ANY  
EQUIPMENT / SUPPLIES TO BREAKDOWN. STATION  
WAS CLEAR ————— *SW*

③

② ⑤ FIRE ④ STATION LAYOUT  
①

0350 START FINISHES LOC + PACKING TRIP  
BLANK FOR SEDIMENT SAMPLES ————— *SW*

0400 VIPER RUNNING SMOOTHLY ————— *SW*

0600 VIPER RUNNING SMOOTHLY ————— *SW*

0700 OSC HUYSER + START MANGUS + HAMEL ARE  
ONSITE. ALL START CLEANING UP SITE +  
BREAKING DOWN AIR MONITORING STATIONS.

1100 EPA + START DEMOBILIZE. ER COMPLETED.

*SW*

11/10/23

**ENCLOSURE 5**

**TETRA TECH STAGE 2A DATA VALIDATION REPORTS**

(73 Pages)



## DATA VALIDATION CHECKLIST – STAGE 2A EPA REGION 4 START CONTRACT

<b>Site Name</b>	East Parker Street Textile Mill Fire	<b>TO/TOLIN No.</b>	82-073
<b>Data Reviewer (name and date)</b>	Kierra Johnson 2/12/2024	<b>Technical Reviewer (name and date)</b>	Josh Cope 2/15/2024
<b>Laboratory Report No.</b>	92699552	<b>Laboratory</b>	Pace Analytical, Asheville, NC; and Pace Analytical, Huntersville, NC
<b>Analyses</b>	TAL Metals by EPA SW-846 method 6010D; Mercury by EPA SW-846 method 7471B; Polychlorinated biphenyls (PCBs) by EPA SW-846 method 8082A; Semi-volatile (SVOCs) by EPA SW-846 method 8270E; and Volatile organic compounds (VOCs) by EPA SW-846 method 8260D.		
<b>Samples and Matrix</b>	Seven soil samples including two field duplicate pairs and one trip blank		
<b>Collection Date(s)</b>	November 17, 2023		
<b>Field Duplicate Pairs</b>	PSMF-LOC1-111723/PSMF-LOC1-111723-DUP PSMF-BACK-111723/PSMF-BACK-111723-DUP		
<b>Field QC Blanks</b>	PSMF-TB-111723		

### INTRODUCTION

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data are evaluated in general accordance with the Tetra Tech Quality Assurance Project Plan (QAPP), Superfund Technical Assessment and Response Team (START V), EPA Region 4, Revision 3 (October 2023), the EPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (November 2020), and the EPA *NFGs for Inorganic Superfund Methods Data Review* (November 2020).

### OVERALL EVALUATION

No rejection of data was required for this data package. The results may be used as qualified based on the findings of this validation effort.



## DATA VALIDATION CHECKLIST – STAGE 2A EPA REGION 4 START CONTRACT

### Data completeness:

Within Criteria	Exceedance/Notes
N	The sample condition form did not indicate that a trip blank was received. However, trip blank sample PSMF-TB-111723 was listed on the chain of custody (COC), with the requested analysis of SVOCs/VOCs. PSMF-TB-111723 was received and analyzed by the laboratory for SVOCs/VOCs.

### Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
N	<p><u>VOCs by EPA 8260D</u></p> <p>The required holding time and preservation criteria were not met for samples PSMF-LOC2-111723, PSMF-LOC1-111723-DUP, and PSMF-TB-111723. Per the method, methanol should be added to the sample at the time of collection. The methanol-preserved VOC containers for samples PSMF-LOC2-111723, PSMF-LOC1-111723-DUP, and PSMF-TB-111723 were dry and no longer contained methanol at the time of sample analysis. The laboratory used unpreserved sample containers submitted for another analysis to create new methanol vials for the VOC analysis. This was done approximately three days after sample collection. The results were flagged “U8” by the laboratory. The results for these samples were qualified as estimated (flagged J/UJ).</p> <ul style="list-style-type: none"> <li>• <b>PSMF-LOC1-111723-DUP:</b> The ethylbenzene result was further qualified as estimated with high bias (flagged J+) because ethylbenzene was detected in the field blank. The toluene result was further qualified as estimated (flagged UJ) because toluene was detected in the field blank.</li> <li>• <b>PSMF-LOC2-111723:</b> The benzene, ethylbenzene, and toluene results were further qualified as estimated with high bias (flagged J+) because benzene, ethylbenzene, and toluene were detected in the field blank.</li> </ul>

### Method blanks:

Within Criteria	Exceedance/Notes
Y	

## DATA VALIDATION CHECKLIST – STAGE 2A

### EPA REGION 4 START CONTRACT

#### Field QC blanks:

Within Criteria	Exceedance/Notes
N	<p>VOCs (Batch: 814957): Benzene, ethylbenzene, and toluene, are detected in the trip blank (PSMF-TB-111723) above the reporting limit (RL). 1,2,4-Trimethylbenzene, m&amp;p-xylene, and xylene (total) are detected in the trip blank (PSMF-TB-111723) above the method detection limit (MDL), but less than the RL.</p> <ul style="list-style-type: none"> <li>• Benzene <ul style="list-style-type: none"> <li>○ Samples PSMF-BACK-111723-DUP, PSMF-LOC1-111723, and PSMF-LOC2-111723 benzene results are greater than the RL but less than 10 times the trip blank concentration. The PSMF-BACK-111723-DUP, PSMF-LOC1-111723, and PSMF-LOC2-111723 benzene results were qualified as estimated with high bias (flagged J+).</li> <li>○ Samples PSMF-BACK-111723 and PSMF-LOC1-111723-DUP benzene results are greater than the MDL, but less than the RL. The benzene results for PSMF-BACK-111723 and PSMF-LOC1-111723-DUP were raised to the RL and qualified as nondetect (flagged U). The PSMF-LOC3-111723 benzene result was greater than the RL and less than the blank detection; therefore, the results was qualified as nondetect (flagged U) at the reported concentration.</li> </ul> </li> <li>• Ethylbenzene <ul style="list-style-type: none"> <li>○ PSMF-LOC1-111723, PSMF-LOC1-111723-DUP, and PSMF-LOC2-111723 ethylbenzene results are greater than the RL but less than 10 times the trip blank concentration. The PSMF-LOC1-111723, PSMF-LOC1-111723-DUP, and PSMF-LOC2-111723 ethylbenzene results were qualified as estimated with high bias (flagged J+). PSMF-BACK-111723, PSMF-BACK-111723-DUP, and PSMF-LOC3-111723 ethylbenzene are results greater than the MDL, but less than the RL. PSMF-BACK-111723, PSMF-BACK-111723-DUP, and PSMF-LOC3-111723 ethylbenzene results were raised to the RL and qualified as nondetect (flagged U).</li> </ul> </li> <li>• Toluene <ul style="list-style-type: none"> <li>○ PSMF-BACK-111723, PSMF-BACK-111723-DUP, PSMF-LOC1-111723, and PSMF-LOC2-111723 toluene results are greater than the RL but less than 10 times the trip blank concentration. PSMF-BACK-111723, PSMF-BACK-111723-DUP, PSMF-LOC1-111723, and PSMF-LOC2-111723 toluene results were qualified as estimated with high bias (flagged J+).</li> <li>○ PSMF-LOC1-111723-DUP and PSMF-LOC3-111723 toluene results were greater than the RL and less than the blank detection; therefore, these results were qualified as nondetect (flagged U) at the reported concentration.</li> </ul> </li> <li>• m&amp;p-Xylene and xylene (total) <ul style="list-style-type: none"> <li>○ PSMF-LOC1-111723 m&amp;p-xylene and xylene (total) results are greater than the RL but less than 10 times the trip blank concentration. The PSMF-LOC1-111723 had m&amp;p-xylene and xylene (total) results were qualified as estimated with high bias (flagged J+).</li> </ul> </li> </ul>

## DATA VALIDATION CHECKLIST – STAGE 2A EPA REGION 4 START CONTRACT

### Field QC blanks (continued):

Within Criteria	Exceedance/Notes
N	<ul style="list-style-type: none"> <li>○ PSMF-BACK-111723, PSMF-BACK-111723-DUP, PSMF-LOC1-111723-DUP, PSMF-LOC2-111723, and PSMF-LOC3-111723 m&amp;p-xylene and xylene (total) results are greater than the MDL, but less than the RL. PSMF-BACK-111723, PSMF-BACK-111723-DUP, PSMF-LOC1-111723-DUP, PSMF-LOC2-111723, and PSMF-LOC3-111723 m&amp;p-xylene and xylene (total) results were raised to the RL and qualified as nondetect (flagged U).</li> <li>• 1,2,4-trimethylbenzene               <ul style="list-style-type: none"> <li>○ PSMF-BACK-111723, PSMF-BACK-111723-DUP, and PSMF-LOC1-111723 1,2,4-trimethylbenzene results are greater than the MDL, but less than the RL. PSMF-LOC1-111723-DUP, PSMF-LOC2-111723, and PSMF-LOC3-111723 results are less than the RL. PSMF-BACK-111723, PSMF-BACK-111723-DUP, and PSMF-LOC1-111723 results were raised to the RL and qualified as nondetect (flagged U).</li> </ul> </li> </ul>

### Surrogates and labeled compounds:

Within Criteria	Exceedance/Notes
Y	

### MS/MSDs:

Within Criteria	Exceedance/Notes
N	<p><u>PSMF-LOC3-111723:</u></p> <ul style="list-style-type: none"> <li>• TAL Metals by EPA 6010D:               <ul style="list-style-type: none"> <li>○ The aluminum, manganese and iron concentrations in the parent sample were greater than four times (4x) the spike amount; therefore, the matrix spike (MS)/matrix spike duplicate (MSD) for these analytes were not evaluated.</li> <li>○ One or more percent recovery (%R) was outside criteria for cobalt, copper, and potassium. However, the average recovery met criteria; therefore, no qualifiers were applied. The relative percent difference (RPD) for cobalt was outside criteria; therefore, the parent sample result for cobalt was qualified as estimated (flagged J).</li> <li>○ Antimony and lead %Rs were below the QC limits; therefore, the parent sample results for these analytes were qualified as estimated, possibly biased low (J-/UJ).</li> <li>○ The %R was above criteria and the RPD was outside criteria for calcium and magnesium; therefore, the parent sample results for these analytes were qualified as estimated, possibly biased high (flagged J+).</li> </ul> </li> <li>• Semi-volatile (SVOCs) by EPA 8270E:</li> </ul>

## DATA VALIDATION CHECKLIST – STAGE 2A EPA REGION 4 START CONTRACT

### MS/MSDs (continued)):

Within Criteria	Exceedance/Notes
N	<ul style="list-style-type: none"> <li>○ The RPD for hexachlorocyclopentadiene was outside QC limits. The nondetect result was not qualified.</li> <li>○ The %R was below criteria for benzoic acid; therefore, the parent sample result was qualified as estimated (flagged UJ).</li> <li>• Volatile organic compounds (VOCs) by EPA 8260D: 2-Butanone (MEK), naphthalene, and 1,2,3-trichlorobenzene results have an RPD outside of the acceptance criteria. Nondetect results were not qualified. The parent sample result for naphthalene was qualified as estimated (flagged J).</li> </ul> <p>PSMF-LOC1-111723-DUP:</p> <ul style="list-style-type: none"> <li>• TAL Metals by EPA 6010D:               <ul style="list-style-type: none"> <li>○ The aluminum, magnesium, manganese, and iron concentrations in the parent sample were greater than 4x the spike amount; therefore, the MS/MSD for these analytes were not evaluated.</li> <li>○ The average %R met criteria but the RPD for vanadium was outside criteria; therefore, the parent sample result was qualified as estimated (flagged J).</li> <li>○ The %R was below the QC limits for antimony, cobalt (RPD was also above QC limits), and zinc; therefore, the parent sample results for these analytes were qualified as estimated, possibly biased low (J-/UJ).</li> </ul> </li> </ul> <p>The %R was above criteria and RPD was outside criteria for chromium; therefore, the parent sample result was qualified as estimated, possibly biased high (flagged J+).</p>

### Laboratory duplicates:

Within Criteria	Exceedance/Notes
Y	

### Field duplicates:

Within Criteria	Exceedance/Notes
Y	

## DATA VALIDATION CHECKLIST – STAGE 2A EPA REGION 4 START CONTRACT

### LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	

### Sample dilutions:

Within Criteria	Exceedance/Notes
Y	Samples PSMF-LOC2-111723, PSMF-LOC1-111723, PSMF-LOC1-111723-DUP, and PSMF-BACK-111723-DUP were analyzed at a 10-fold dilution for iron.  Sample PSMF-LOC3-111723 were analyzed at a 10-fold dilution for aluminum and iron.

### Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

### MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	Analytes detected at concentrations above MDLs but below RLs are qualified as estimated (flagged J) by the laboratory.

### Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	



**DATA VALIDATION CHECKLIST – STAGE 2A  
EPA REGION 4 START CONTRACT**

**Other [Continuing Calibration (ICV) and Continuing Calibration Verification (CCV)]:**

Within Criteria	Exceedance/Notes
N	<p><u>ICV</u> VOCs (Batch: 814957): The laboratory report states that the recalculated concentration of the calibration standard did not meet method acceptance criteria for carbon tetrachloride; therefore, results should be considered estimated. The affected samples PSMF-LOC2-111723, PSMF-LOC1-111723, PSMF-LOC1-111723-DUP, PSMF-LOC3-111723, PSMF-BACK-111723, PSMF-BACK-111723-DUP, and PSMF-TB-111723 are nondetect. No qualifiers were applied because calibration verification is outside the scope of a Stage 2A validation.</p> <p><u>CCV</u> SVOCs (Batch: 814825): The continuing calibration verification (CCV) exceeded the acceptance criteria for benzoic acid, 4,6-dinitro-2-methylphenol, and 2,4-dinitrophenol. The affected samples PSMF-LOC2-111723, PSMF-LOC1-111723, PSMF-LOC1-111723-DUP, PSMF-LOC3-111723, PSMF-BACK-111723, PSMF-BACK-111723-DUP, and PSMF-TB-111723 are nondetect. No qualifiers were applied because calibration verification is outside the scope of a Stage 2A validation.</p> <p>VOCs (Batch: 814957): The CCV exceeded the acceptance criteria for tert-butylbenzene, dichlorodifluoromethane, and trichlorofluoromethane. The affected samples PSMF-LOC2-111723, PSMF-LOC1-111723, PSMF-LOC1-111723-DUP, PSMF-LOC3-111723, PSMF-BACK-111723, PSMF-BACK-111723-DUP, and PSMF-TB-111723 are nondetect. No qualifiers were applied because calibration verification is outside the scope of a Stage 2A validation.</p>

## DATA VALIDATION CHECKLIST – STAGE 2A EPA REGION 4 START CONTRACT

### Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-BACK-111723	EPA 6010D	Aluminum	1830		1.8	8.3	mg/kg	1830	
PSMF-BACK-111723	EPA 6010D	Antimony	ND	U	1.2	2.1	mg/kg	2.1	U
PSMF-BACK-111723	EPA 6010D	Arsenic	0.67	J	0.34	2.1	mg/kg	0.67	J
PSMF-BACK-111723	EPA 6010D	Barium	14.3		0.094	0.83	mg/kg	14.3	
PSMF-BACK-111723	EPA 6010D	Beryllium	0.045	J	0.011	0.083	mg/kg	0.045	J
PSMF-BACK-111723	EPA 6010D	Cadmium	ND	U	0.022	0.083	mg/kg	0.083	U
PSMF-BACK-111723	EPA 6010D	Calcium	397		4.7	20.8	mg/kg	397	
PSMF-BACK-111723	EPA 6010D	Chromium	12.4		0.062	0.42	mg/kg	12.4	
PSMF-BACK-111723	EPA 6010D	Cobalt	1.2		0.27	0.42	mg/kg	1.2	
PSMF-BACK-111723	EPA 6010D	Copper	4.2		0.079	4.2	mg/kg	4.2	
PSMF-BACK-111723	EPA 6010D	Iron	7170		3.7	41.6	mg/kg	7170	
PSMF-BACK-111723	EPA 6010D	Lead	3.6		0.22	0.83	mg/kg	3.6	
PSMF-BACK-111723	EPA 6010D	Magnesium	341		0.57	8.3	mg/kg	341	
PSMF-BACK-111723	EPA 6010D	Manganese	36.4		0.084	0.42	mg/kg	36.4	
PSMF-BACK-111723	EPA 6010D	Nickel	2.1		0.071	0.42	mg/kg	2.1	
PSMF-BACK-111723	EPA 6010D	Potassium	115	J	10.1	416	mg/kg	115	J
PSMF-BACK-111723	EPA 6010D	Selenium	ND	U	0.64	0.83	mg/kg	0.83	U
PSMF-BACK-111723	EPA 6010D	Silver	ND	U	0.039	0.42	mg/kg	0.42	U
PSMF-BACK-111723	EPA 6010D	Sodium	20.5	J	15.3	416	mg/kg	20.5	J
PSMF-BACK-111723	EPA 6010D	Thallium	ND	U	0.33	0.83	mg/kg	0.83	U
PSMF-BACK-111723	EPA 6010D	Vanadium	29.9		0.11	0.42	mg/kg	29.9	
PSMF-BACK-111723	EPA 6010D	Zinc	11.7		0.50	0.83	mg/kg	11.7	
PSMF-BACK-111723	EPA 7471B	Mercury	ND	U	0.0053	0.0086	mg/kg	0.0086	U
PSMF-BACK-111723	EPA 8082A	PCB-1016 (Aroclor 1016)	ND	U	19.5	49.0	ug/kg	49.0	U
PSMF-BACK-111723	EPA 8082A	PCB-1221 (Aroclor 1221)	ND	U	33.0	49.0	ug/kg	49.0	U
PSMF-BACK-111723	EPA 8082A	PCB-1232 (Aroclor 1232)	ND	U	21.8	49.0	ug/kg	49.0	U
PSMF-BACK-111723	EPA 8082A	PCB-1242 (Aroclor 1242)	ND	U	11.9	49.0	ug/kg	49.0	U
PSMF-BACK-111723	EPA 8082A	PCB-1248 (Aroclor 1248)	ND	U	13.2	49.0	ug/kg	49.0	U
PSMF-BACK-111723	EPA 8082A	PCB-1254 (Aroclor 1254)	ND	U	21.5	49.0	ug/kg	49.0	U
PSMF-BACK-111723	EPA 8082A	PCB-1260 (Aroclor 1260)	ND	U	21.7	49.0	ug/kg	49.0	U
PSMF-BACK-111723	EPA 8260D	1,1,1,2-Tetrachloroethane	ND	U	4.4	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,1,1-Trichloroethane	ND	U	6.0	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,1,2,2-Tetrachloroethane	ND	U	3.0	11.5	ug/kg	11.5	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-BACK-111723	EPA 8260D	1,1,2-Trichloroethane	ND	U	3.8	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,1-Dichloroethane	ND	U	4.7	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,1-Dichloroethene	ND	U	4.7	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,1-Dichloropropene	ND	U	5.5	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,2,3-Trichlorobenzene	ND	U	9.3	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,2,3-Trichloropropane	ND	U	5.8	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,2,4-Trichlorobenzene	ND	U	9.6	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,2,4-Trimethylbenzene	6.9	J	6.8	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,2-Dibromo-3-chloropropane	ND	U	4.4	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,2-Dibromoethane (EDB)	ND	U	5.0	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,2-Dichlorobenzene	ND	U	4.1	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,2-Dichloroethane	ND	U	7.6	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,2-Dichloropropane	ND	U	3.4	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,3,5-Trimethylbenzene	ND	U	3.9	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,3-Dichlorobenzene	ND	U	3.6	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,3-Dichloropropane	ND	U	3.6	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	1,4-Dichlorobenzene	ND	U	3.0	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	2,2-Dichloropropane	ND	U	8.7	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	2-Butanone (MEK)	ND	U	55.0	229	ug/kg	229	U
PSMF-BACK-111723	EPA 8260D	2-Chlorotoluene	ND	U	4.1	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	2-Hexanone	ND	U	11.0	115	ug/kg	115	U
PSMF-BACK-111723	EPA 8260D	4-Chlorotoluene	ND	U	6.4	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	4-Methyl-2-pentanone (MIBK)	ND	U	11.0	115	ug/kg	115	U
PSMF-BACK-111723	EPA 8260D	Acetone	ND	U	73.6	229	ug/kg	229	U
PSMF-BACK-111723	EPA 8260D	Benzene	10	J	4.6	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Bromobenzene	ND	U	3.7	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Bromochloromethane	ND	U	3.4	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Bromodichloromethane	ND	U	4.4	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Bromoform	ND	U	4.0	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Bromomethane	ND	U	35.5	45.8	ug/kg	45.8	U
PSMF-BACK-111723	EPA 8260D	Carbon tetrachloride	ND	U	4.3	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Chlorobenzene	ND	U	6.6	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Chloroethane	ND	U	8.8	22.9	ug/kg	22.9	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-BACK-111723	EPA 8260D	Chloroform	ND	U	9.6	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Chloromethane	ND	U	9.6	22.9	ug/kg	22.9	U
PSMF-BACK-111723	EPA 8260D	cis-1,2-Dichloroethene	ND	U	3.9	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	cis-1,3-Dichloropropene	ND	U	3.1	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Dibromochloromethane	ND	U	6.4	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Dibromomethane	ND	U	2.5	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Dichlorodifluoromethane	ND	U	11.7	22.9	ug/kg	22.9	U
PSMF-BACK-111723	EPA 8260D	Diisopropyl ether	ND	U	3.1	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Ethylbenzene	11.1	J	5.3	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Hexachloro-1,3-butadiene	ND	U	18.7	22.9	ug/kg	22.9	U
PSMF-BACK-111723	EPA 8260D	Isopropylbenzene (Cumene)	ND	U	3.9	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	m&p-Xylene	12.1	J	7.8	22.9	ug/kg	22.9	U
PSMF-BACK-111723	EPA 8260D	Methylene Chloride	ND	U	31.4	45.8	ug/kg	45.8	U
PSMF-BACK-111723	EPA 8260D	Methyl-tert-butyl ether	ND	U	4.3	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Naphthalene	ND	U	6.0	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	n-Butylbenzene	ND	U	7.2	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	n-Propylbenzene	ND	U	4.1	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	o-Xylene	ND	U	5.1	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	p-Isopropyltoluene	ND	U	5.6	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	sec-Butylbenzene	ND	U	5.0	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Styrene	ND	U	3.0	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	tert-Butylbenzene	ND	U	4.1	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Tetrachloroethene	7.1	J	3.6	11.5	ug/kg	7.1	J
PSMF-BACK-111723	EPA 8260D	Toluene	17.9		7.9	11.5	ug/kg	17.9	J+
PSMF-BACK-111723	EPA 8260D	trans-1,2-Dichloroethene	ND	U	9.7	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	trans-1,3-Dichloropropene	ND	U	3.9	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Trichloroethene	ND	U	9.2	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Trichlorofluoromethane	ND	U	6.3	11.5	ug/kg	11.5	U
PSMF-BACK-111723	EPA 8260D	Vinyl acetate	ND	U	23.6	115	ug/kg	115	U
PSMF-BACK-111723	EPA 8260D	Vinyl chloride	ND	U	5.8	22.9	ug/kg	22.9	U
PSMF-BACK-111723	EPA 8260D	Xylene (Total)	12.1	J	6.5	22.9	ug/kg	22.9	U
PSMF-BACK-111723	EPA 8270E	1,2,4-Trichlorobenzene	ND	U	191	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	1,2-Dichlorobenzene	ND	U	174	484	ug/kg	484	U



EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-BACK-111723	EPA 8270E	1,3-Dichlorobenzene	ND	U	171	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	1,4-Dichlorobenzene	ND	U	185	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	1-Methylnaphthalene	ND	U	170	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	2,2'-Oxybis(1-chloropropane)	ND	U	230	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	2,4,5-Trichlorophenol	ND	U	221	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	2,4,6-Trichlorophenol	ND	U	199	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	2,4-Dichlorophenol	ND	U	189	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	2,4-Dimethylphenol	ND	U	201	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	2,4-Dinitrophenol	ND	U	1490	2420	ug/kg	2420	U
PSMF-BACK-111723	EPA 8270E	2,4-Dinitrotoluene	ND	U	186	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	2,6-Dinitrotoluene	ND	U	177	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	2-Chloronaphthalene	ND	U	192	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	2-Chlorophenol	ND	U	182	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	2-Methylnaphthalene	ND	U	193	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	2-Methylphenol(o-Cresol)	ND	U	198	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	2-Nitroaniline	ND	U	396	2420	ug/kg	2420	U
PSMF-BACK-111723	EPA 8270E	2-Nitrophenol	ND	U	210	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	3&4-Methylphenol(m&p Cresol)	ND	U	195	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	3,3'-Dichlorobenzidine	ND	U	327	967	ug/kg	967	U
PSMF-BACK-111723	EPA 8270E	3-Nitroaniline	ND	U	380	2420	ug/kg	2420	U
PSMF-BACK-111723	EPA 8270E	4,6-Dinitro-2-methylphenol	ND	U	451	967	ug/kg	967	U
PSMF-BACK-111723	EPA 8270E	4-Bromophenylphenyl ether	ND	U	186	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	4-Chloro-3-methylphenol	ND	U	340	967	ug/kg	967	U
PSMF-BACK-111723	EPA 8270E	4-Chloroaniline	ND	U	380	967	ug/kg	967	U
PSMF-BACK-111723	EPA 8270E	4-Chlorophenylphenyl ether	ND	U	180	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	4-Nitroaniline	ND	U	368	967	ug/kg	967	U
PSMF-BACK-111723	EPA 8270E	4-Nitrophenol	ND	U	935	2420	ug/kg	2420	U
PSMF-BACK-111723	EPA 8270E	Acenaphthene	ND	U	170	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Acenaphthylene	ND	U	170	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Aniline	ND	U	189	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Anthracene	ND	U	158	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Benzo(a)anthracene	ND	U	161	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Benzo(a)pyrene	ND	U	167	484	ug/kg	484	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-BACK-111723	EPA 8270E	Benzo(b)fluoranthene	ND	U	161	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Benzo(g,h,i)perylene	ND	U	188	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Benzo(k)fluoranthene	ND	U	170	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Benzoic Acid	ND	U	1040	2420	ug/kg	2420	U
PSMF-BACK-111723	EPA 8270E	Benzyl alcohol	ND	U	366	967	ug/kg	967	U
PSMF-BACK-111723	EPA 8270E	bis(2-Chloroethoxy)methane	ND	U	201	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	bis(2-Chloroethyl) ether	ND	U	182	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	bis(2-Ethylhexyl)phthalate	ND	U	188	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Butylbenzylphthalate	ND	U	204	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Chrysene	ND	U	176	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Dibenz(a,h)anthracene	ND	U	186	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Dibenzofuran	ND	U	174	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Diethylphthalate	ND	U	177	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Dimethylphthalate	ND	U	176	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Di-n-butylphthalate	ND	U	163	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Di-n-octylphthalate	ND	U	191	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Fluoranthene	ND	U	166	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Fluorene	ND	U	170	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Hexachloro-1,3-butadiene	ND	U	210	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Hexachlorobenzene	ND	U	189	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Hexachlorocyclopentadiene	ND	U	277	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Hexachloroethane	ND	U	185	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Indeno(1,2,3-cd)pyrene	ND	U	191	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Isophorone	ND	U	215	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Naphthalene	ND	U	164	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Nitrobenzene	ND	U	224	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	N-Nitrosodimethylamine	ND	U	163	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	N-Nitroso-di-n-propylamine	ND	U	182	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	N-Nitrosodiphenylamine	ND	U	171	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Pentachlorophenol	ND	U	473	967	ug/kg	967	U
PSMF-BACK-111723	EPA 8270E	Phenanthrene	ND	U	158	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Phenol	ND	U	215	484	ug/kg	484	U
PSMF-BACK-111723	EPA 8270E	Pyrene	ND	U	196	484	ug/kg	484	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-BACK-111723	EPA 8270E	Pyridine	ND	U	152	484	ug/kg	484	U
PSMF-BACK-111723-DUP	EPA 6010D	Aluminum	1810		1.7	7.9	mg/kg	1810	
PSMF-BACK-111723-DUP	EPA 6010D	Antimony	ND	U	1.1	2.0	mg/kg	2.0	U
PSMF-BACK-111723-DUP	EPA 6010D	Arsenic	0.8	J	0.32	2.0	mg/kg	0.80	J
PSMF-BACK-111723-DUP	EPA 6010D	Barium	15.1		0.090	0.79	mg/kg	15.1	
PSMF-BACK-111723-DUP	EPA 6010D	Beryllium	0.04	J	0.010	0.079	mg/kg	0.040	J
PSMF-BACK-111723-DUP	EPA 6010D	Cadmium	ND	U	0.021	0.079	mg/kg	0.079	U
PSMF-BACK-111723-DUP	EPA 6010D	Calcium	296		4.4	19.8	mg/kg	296	
PSMF-BACK-111723-DUP	EPA 6010D	Chromium	10.4		0.059	0.40	mg/kg	10.4	
PSMF-BACK-111723-DUP	EPA 6010D	Cobalt	0.35	J	0.26	0.40	mg/kg	0.35	J
PSMF-BACK-111723-DUP	EPA 6010D	Copper	4.1		0.075	4.0	mg/kg	4.1	
PSMF-BACK-111723-DUP	EPA 6010D	Iron	9560		35.7	396	mg/kg	9560	
PSMF-BACK-111723-DUP	EPA 6010D	Lead	3.7		0.21	0.79	mg/kg	3.7	
PSMF-BACK-111723-DUP	EPA 6010D	Magnesium	402		0.54	7.9	mg/kg	402	
PSMF-BACK-111723-DUP	EPA 6010D	Manganese	45.6		0.080	0.40	mg/kg	45.6	
PSMF-BACK-111723-DUP	EPA 6010D	Nickel	1.9		0.067	0.40	mg/kg	1.9	
PSMF-BACK-111723-DUP	EPA 6010D	Potassium	124	J	9.6	396	mg/kg	124	J
PSMF-BACK-111723-DUP	EPA 6010D	Selenium	ND	U	0.61	0.79	mg/kg	0.79	U
PSMF-BACK-111723-DUP	EPA 6010D	Silver	ND	U	0.037	0.40	mg/kg	0.40	U
PSMF-BACK-111723-DUP	EPA 6010D	Sodium	19.5	J	14.5	396	mg/kg	19.5	J
PSMF-BACK-111723-DUP	EPA 6010D	Thallium	ND	U	0.31	0.79	mg/kg	0.79	U
PSMF-BACK-111723-DUP	EPA 6010D	Vanadium	27.9		0.11	0.40	mg/kg	27.9	
PSMF-BACK-111723-DUP	EPA 6010D	Zinc	12.2		0.48	0.79	mg/kg	12.2	
PSMF-BACK-111723-DUP	EPA 7471B	Mercury	ND	U	0.0049	0.0080	mg/kg	0.0080	U
PSMF-BACK-111723-DUP	EPA 8082A	PCB-1016 (Aroclor 1016)	ND	U	18.5	46.5	ug/kg	46.5	U
PSMF-BACK-111723-DUP	EPA 8082A	PCB-1221 (Aroclor 1221)	ND	U	31.3	46.5	ug/kg	46.5	U
PSMF-BACK-111723-DUP	EPA 8082A	PCB-1232 (Aroclor 1232)	ND	U	20.7	46.5	ug/kg	46.5	U
PSMF-BACK-111723-DUP	EPA 8082A	PCB-1242 (Aroclor 1242)	ND	U	11.3	46.5	ug/kg	46.5	U
PSMF-BACK-111723-DUP	EPA 8082A	PCB-1248 (Aroclor 1248)	ND	U	12.6	46.5	ug/kg	46.5	U
PSMF-BACK-111723-DUP	EPA 8082A	PCB-1254 (Aroclor 1254)	ND	U	20.5	46.5	ug/kg	46.5	U
PSMF-BACK-111723-DUP	EPA 8082A	PCB-1260 (Aroclor 1260)	ND	U	20.6	46.5	ug/kg	46.5	U
PSMF-BACK-111723-DUP	EPA 8260D	1,1,1,2-Tetrachloroethane	ND	U	3.1	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,1,1-Trichloroethane	ND	U	4.2	8.1	ug/kg	8.1	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-BACK-111723-DUP	EPA 8260D	1,1,2,2-Tetrachloroethane	ND	U	2.1	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,1,2-Trichloroethane	ND	U	2.7	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,1-Dichloroethane	ND	U	3.3	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,1-Dichloroethene	ND	U	3.3	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,1-Dichloropropene	ND	U	3.9	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,2,3-Trichlorobenzene	ND	U	6.5	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,2,3-Trichloropropane	ND	U	4.1	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,2,4-Trichlorobenzene	ND	U	6.8	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,2,4-Trimethylbenzene	5.1	J	4.8	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,2-Dibromo-3-chloropropane	ND	U	3.1	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,2-Dibromoethane (EDB)	ND	U	3.6	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,2-Dichlorobenzene	ND	U	2.9	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,2-Dichloroethane	ND	U	5.3	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,2-Dichloropropane	ND	U	2.4	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,3,5-Trimethylbenzene	ND	U	2.7	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,3-Dichlorobenzene	ND	U	2.5	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,3-Dichloropropane	ND	U	2.5	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	1,4-Dichlorobenzene	ND	U	2.1	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	2,2-Dichloropropane	ND	U	6.1	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	2-Butanone (MEK)	ND	U	38.7	161	ug/kg	161	U
PSMF-BACK-111723-DUP	EPA 8260D	2-Chlorotoluene	ND	U	2.9	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	2-Hexanone	ND	U	7.8	80.7	ug/kg	80.7	U
PSMF-BACK-111723-DUP	EPA 8260D	4-Chlorotoluene	ND	U	4.5	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	4-Methyl-2-pentanone (MIBK)	ND	U	7.8	80.7	ug/kg	80.7	U
PSMF-BACK-111723-DUP	EPA 8260D	Acetone	ND	U	51.8	161	ug/kg	161	U
PSMF-BACK-111723-DUP	EPA 8260D	Benzene	16.3		3.2	8.1	ug/kg	16.3	J+
PSMF-BACK-111723-DUP	EPA 8260D	Bromobenzene	ND	U	2.6	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Bromochloromethane	ND	U	2.4	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Bromodichloromethane	ND	U	3.1	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Bromoform	ND	U	2.8	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Bromomethane	ND	U	25.0	32.3	ug/kg	32.3	U
PSMF-BACK-111723-DUP	EPA 8260D	Carbon tetrachloride	ND	U	3.0	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Chlorobenzene	ND	U	4.6	8.1	ug/kg	8.1	U



EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-BACK-111723-DUP	EPA 8260D	Chloroethane	ND	U	6.2	16.1	ug/kg	16.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Chloroform	ND	U	6.7	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Chloromethane	ND	U	6.8	16.1	ug/kg	16.1	U
PSMF-BACK-111723-DUP	EPA 8260D	cis-1,2-Dichloroethene	ND	U	2.8	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	cis-1,3-Dichloropropene	ND	U	2.2	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Dibromochloromethane	ND	U	4.5	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Dibromomethane	ND	U	1.7	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Dichlorodifluoromethane	ND	U	8.2	16.1	ug/kg	16.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Diisopropyl ether	ND	U	2.2	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Ethylbenzene	7.9	J	3.8	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Hexachloro-1,3-butadiene	ND	U	13.2	16.1	ug/kg	16.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Isopropylbenzene (Cumene)	ND	U	2.7	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	m&p-Xylene	10.5	J	5.5	16.1	ug/kg	16.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Methylene Chloride	ND	U	22.1	32.3	ug/kg	32.3	U
PSMF-BACK-111723-DUP	EPA 8260D	Methyl-tert-butyl ether	ND	U	3.0	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Naphthalene	ND	U	4.2	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	n-Butylbenzene	ND	U	5.1	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	n-Propylbenzene	ND	U	2.9	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	o-Xylene	ND	U	3.6	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	p-Isopropyltoluene	ND	U	4.0	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	sec-Butylbenzene	ND	U	3.6	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Styrene	ND	U	2.1	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	tert-Butylbenzene	ND	U	2.9	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Tetrachloroethene	ND	U	2.5	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Toluene	88.0		5.6	8.1	ug/kg	88	J+
PSMF-BACK-111723-DUP	EPA 8260D	trans-1,2-Dichloroethene	ND	U	6.9	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	trans-1,3-Dichloropropene	ND	U	2.8	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Trichloroethene	ND	U	6.5	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Trichlorofluoromethane	ND	U	4.4	8.1	ug/kg	8.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Vinyl acetate	ND	U	16.6	80.7	ug/kg	80.7	U
PSMF-BACK-111723-DUP	EPA 8260D	Vinyl chloride	ND	U	4.1	16.1	ug/kg	16.1	U
PSMF-BACK-111723-DUP	EPA 8260D	Xylene (Total)	10.5	J	4.6	16.1	ug/kg	16.1	U
PSMF-BACK-111723-DUP	EPA 8270E	1,2,4-Trichlorobenzene	ND	U	188	478	ug/kg	478	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-BACK-111723-DUP	EPA 8270E	1,2-Dichlorobenzene	ND	U	172	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	1,3-Dichlorobenzene	ND	U	170	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	1,4-Dichlorobenzene	ND	U	183	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	1-Methylnaphthalene	ND	U	168	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	2,2'-Oxybis(1-chloropropane)	ND	U	227	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	2,4,5-Trichlorophenol	ND	U	219	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	2,4,6-Trichlorophenol	ND	U	197	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	2,4-Dichlorophenol	ND	U	187	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	2,4-Dimethylphenol	ND	U	198	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	2,4-Dinitrophenol	ND	U	1480	2390	ug/kg	2390	U
PSMF-BACK-111723-DUP	EPA 8270E	2,4-Dinitrotoluene	ND	U	184	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	2,6-Dinitrotoluene	ND	U	175	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	2-Chloronaphthalene	ND	U	190	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	2-Chlorophenol	ND	U	180	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	2-Methylnaphthalene	ND	U	191	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	2-Methylphenol(o-Cresol)	ND	U	196	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	2-Nitroaniline	ND	U	391	2390	ug/kg	2390	U
PSMF-BACK-111723-DUP	EPA 8270E	2-Nitrophenol	ND	U	207	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	3&4-Methylphenol(m&p Cresol)	ND	U	193	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	3,3'-Dichlorobenzidine	ND	U	323	956	ug/kg	956	U
PSMF-BACK-111723-DUP	EPA 8270E	3-Nitroaniline	ND	U	375	2390	ug/kg	2390	U
PSMF-BACK-111723-DUP	EPA 8270E	4,6-Dinitro-2-methylphenol	ND	U	446	956	ug/kg	956	U
PSMF-BACK-111723-DUP	EPA 8270E	4-Bromophenylphenyl ether	ND	U	184	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	4-Chloro-3-methylphenol	ND	U	336	956	ug/kg	956	U
PSMF-BACK-111723-DUP	EPA 8270E	4-Chloroaniline	ND	U	375	956	ug/kg	956	U
PSMF-BACK-111723-DUP	EPA 8270E	4-Chlorophenylphenyl ether	ND	U	178	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	4-Nitroaniline	ND	U	364	956	ug/kg	956	U
PSMF-BACK-111723-DUP	EPA 8270E	4-Nitrophenol	ND	U	924	2390	ug/kg	2390	U
PSMF-BACK-111723-DUP	EPA 8270E	Acenaphthene	ND	U	168	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Acenaphthylene	ND	U	168	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Aniline	ND	U	187	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Anthracene	ND	U	156	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Benzo(a)anthracene	ND	U	159	478	ug/kg	478	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-BACK-111723-DUP	EPA 8270E	Benzo(a)pyrene	ND	U	165	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Benzo(b)fluoranthene	ND	U	159	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Benzo(g,h,i)perylene	ND	U	185	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Benzo(k)fluoranthene	ND	U	168	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Benzoic Acid	ND	U	1030	2390	ug/kg	2390	U
PSMF-BACK-111723-DUP	EPA 8270E	Benzyl alcohol	ND	U	362	956	ug/kg	956	U
PSMF-BACK-111723-DUP	EPA 8270E	bis(2-Chloroethoxy)methane	ND	U	198	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	bis(2-Chloroethyl) ether	ND	U	180	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	bis(2-Ethylhexyl)phthalate	ND	U	185	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Butylbenzylphthalate	ND	U	201	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Chrysene	ND	U	174	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Dibenz(a,h)anthracene	ND	U	184	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Dibenzofuran	ND	U	172	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Diethylphthalate	ND	U	175	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Dimethylphthalate	ND	U	174	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Di-n-butylphthalate	ND	U	161	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Di-n-octylphthalate	ND	U	188	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Fluoranthene	ND	U	164	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Fluorene	ND	U	168	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Hexachloro-1,3-butadiene	ND	U	207	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Hexachlorobenzene	ND	U	187	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Hexachlorocyclopentadiene	ND	U	274	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Hexachloroethane	ND	U	183	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Indeno(1,2,3-cd)pyrene	ND	U	188	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Isophorone	ND	U	213	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Naphthalene	ND	U	162	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Nitrobenzene	ND	U	222	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	N-Nitrosodimethylamine	ND	U	161	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	N-Nitroso-di-n-propylamine	ND	U	180	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	N-Nitrosodiphenylamine	ND	U	170	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Pentachlorophenol	ND	U	468	956	ug/kg	956	U
PSMF-BACK-111723-DUP	EPA 8270E	Phenanthrene	ND	U	156	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Phenol	ND	U	213	478	ug/kg	478	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-BACK-111723-DUP	EPA 8270E	Pyrene	ND	U	194	478	ug/kg	478	U
PSMF-BACK-111723-DUP	EPA 8270E	Pyridine	ND	U	151	478	ug/kg	478	U
PSMF-LOC1-111723	EPA 6010D	Aluminum	4320		1.8	8.3	mg/kg	4320	
PSMF-LOC1-111723	EPA 6010D	Antimony	ND	U	1.2	2.1	mg/kg	2.1	U
PSMF-LOC1-111723	EPA 6010D	Arsenic	1.5	J	0.34	2.1	mg/kg	1.5	J
PSMF-LOC1-111723	EPA 6010D	Barium	64.8		0.094	0.83	mg/kg	64.8	
PSMF-LOC1-111723	EPA 6010D	Beryllium	0.059	J	0.011	0.083	mg/kg	0.059	J
PSMF-LOC1-111723	EPA 6010D	Cadmium	0.022	J	0.022	0.083	mg/kg	0.022	J
PSMF-LOC1-111723	EPA 6010D	Calcium	1400		4.7	20.9	mg/kg	1400	
PSMF-LOC1-111723	EPA 6010D	Chromium	56.9		0.063	0.42	mg/kg	56.9	
PSMF-LOC1-111723	EPA 6010D	Cobalt	1.6		0.27	0.42	mg/kg	1.6	
PSMF-LOC1-111723	EPA 6010D	Copper	9.5		0.079	4.2	mg/kg	9.5	
PSMF-LOC1-111723	EPA 6010D	Iron	17700		37.6	417	mg/kg	17700	
PSMF-LOC1-111723	EPA 6010D	Lead	11.0		0.22	0.83	mg/kg	11	
PSMF-LOC1-111723	EPA 6010D	Magnesium	2110		0.57	8.3	mg/kg	2110	
PSMF-LOC1-111723	EPA 6010D	Manganese	194		0.084	0.42	mg/kg	194	
PSMF-LOC1-111723	EPA 6010D	Nickel	6.8		0.071	0.42	mg/kg	6.8	
PSMF-LOC1-111723	EPA 6010D	Potassium	1110		10.2	417	mg/kg	1110	
PSMF-LOC1-111723	EPA 6010D	Selenium	ND	U	0.64	0.83	mg/kg	0.83	U
PSMF-LOC1-111723	EPA 6010D	Silver	ND	U	0.039	0.42	mg/kg	0.42	U
PSMF-LOC1-111723	EPA 6010D	Sodium	29.7	J	15.3	417	mg/kg	29.7	J
PSMF-LOC1-111723	EPA 6010D	Thallium	ND	U	0.33	0.83	mg/kg	0.83	U
PSMF-LOC1-111723	EPA 6010D	Vanadium	43.1		0.11	0.42	mg/kg	43.1	
PSMF-LOC1-111723	EPA 6010D	Zinc	61.1		0.50	0.83	mg/kg	61.1	
PSMF-LOC1-111723	EPA 7471B	Mercury	0.007	J	0.0045	0.0072	mg/kg	0.0070	J
PSMF-LOC1-111723	EPA 8082A	PCB-1016 (Aroclor 1016)	ND	U	17.0	42.8	ug/kg	42.8	U
PSMF-LOC1-111723	EPA 8082A	PCB-1221 (Aroclor 1221)	ND	U	28.8	42.8	ug/kg	42.8	U
PSMF-LOC1-111723	EPA 8082A	PCB-1232 (Aroclor 1232)	ND	U	19.1	42.8	ug/kg	42.8	U
PSMF-LOC1-111723	EPA 8082A	PCB-1242 (Aroclor 1242)	ND	U	10.4	42.8	ug/kg	42.8	U
PSMF-LOC1-111723	EPA 8082A	PCB-1248 (Aroclor 1248)	ND	U	11.6	42.8	ug/kg	42.8	U
PSMF-LOC1-111723	EPA 8082A	PCB-1254 (Aroclor 1254)	ND	U	18.8	42.8	ug/kg	42.8	U
PSMF-LOC1-111723	EPA 8082A	PCB-1260 (Aroclor 1260)	ND	U	18.9	42.8	ug/kg	42.8	U
PSMF-LOC1-111723	EPA 8260D	1,1,1,2-Tetrachloroethane	ND	U	4.0	10.4	ug/kg	10.4	U



EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC1-111723	EPA 8260D	1,1,1-Trichloroethane	ND	U	5.4	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,1,2,2-Tetrachloroethane	ND	U	2.7	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,1,2-Trichloroethane	ND	U	3.4	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,1-Dichloroethane	ND	U	4.3	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,1-Dichloroethene	ND	U	4.3	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,1-Dichloropropene	ND	U	5.0	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,2,3-Trichlorobenzene	ND	U	8.4	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,2,3-Trichloropropane	ND	U	5.2	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,2,4-Trichlorobenzene	ND	U	8.7	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,2,4-Trimethylbenzene	9.4	J	6.2	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,2-Dibromo-3-chloropropane	ND	U	4.0	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,2-Dibromoethane (EDB)	ND	U	4.6	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,2-Dichlorobenzene	ND	U	3.7	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,2-Dichloroethane	ND	U	6.9	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,2-Dichloropropane	ND	U	3.1	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,3,5-Trimethylbenzene	ND	U	3.5	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,3-Dichlorobenzene	ND	U	3.2	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,3-Dichloropropane	ND	U	3.2	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	1,4-Dichlorobenzene	ND	U	2.7	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	2,2-Dichloropropane	ND	U	7.9	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	2-Butanone (MEK)	ND	U	49.7	207	ug/kg	207	U
PSMF-LOC1-111723	EPA 8260D	2-Chlorotoluene	ND	U	3.7	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	2-Hexanone	ND	U	10	104	ug/kg	104	U
PSMF-LOC1-111723	EPA 8260D	4-Chlorotoluene	ND	U	5.8	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	4-Methyl-2-pentanone (MIBK)	ND	U	10	104	ug/kg	104	U
PSMF-LOC1-111723	EPA 8260D	Acetone	ND	U	66.5	207	ug/kg	207	U
PSMF-LOC1-111723	EPA 8260D	Benzene	29.2		4.1	10.4	ug/kg	29.2	J+
PSMF-LOC1-111723	EPA 8260D	Bromobenzene	ND	U	3.4	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	Bromochloromethane	ND	U	3.1	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	Bromodichloromethane	ND	U	4.0	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	Bromoform	ND	U	3.6	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	Bromomethane	ND	U	32.1	41.4	ug/kg	41.4	U
PSMF-LOC1-111723	EPA 8260D	Carbon tetrachloride	ND	U	3.9	10.4	ug/kg	10.4	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC1-111723	EPA 8260D	Chlorobenzene	ND	U	5.9	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	Chloroethane	ND	U	8.0	20.7	ug/kg	20.7	U
PSMF-LOC1-111723	EPA 8260D	Chloroform	ND	U	8.7	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	Chloromethane	ND	U	8.7	20.7	ug/kg	20.7	U
PSMF-LOC1-111723	EPA 8260D	cis-1,2-Dichloroethene	ND	U	3.5	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	cis-1,3-Dichloropropene	ND	U	2.8	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	Dibromochloromethane	ND	U	5.8	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	Dibromomethane	ND	U	2.2	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	Dichlorodifluoromethane	ND	U	10.5	20.7	ug/kg	20.7	U
PSMF-LOC1-111723	EPA 8260D	Diisopropyl ether	ND	U	2.8	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	Ethylbenzene	17.6		4.8	10.4	ug/kg	17.6	J+
PSMF-LOC1-111723	EPA 8260D	Hexachloro-1,3-butadiene	ND	U	16.9	20.7	ug/kg	20.7	U
PSMF-LOC1-111723	EPA 8260D	Isopropylbenzene (Cumene)	ND	U	3.5	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	m&p-Xylene	31.6		7.1	20.7	ug/kg	31.6	J+
PSMF-LOC1-111723	EPA 8260D	Methylene Chloride	ND	U	28.4	41.4	ug/kg	41.4	U
PSMF-LOC1-111723	EPA 8260D	Methyl-tert-butyl ether	ND	U	3.9	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	Naphthalene	147		5.4	10.4	ug/kg	147	
PSMF-LOC1-111723	EPA 8260D	n-Butylbenzene	ND	U	6.5	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	n-Propylbenzene	ND	U	3.7	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	o-Xylene	13.8		4.6	10.4	ug/kg	13.8	
PSMF-LOC1-111723	EPA 8260D	p-Isopropyltoluene	ND	U	5.1	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	sec-Butylbenzene	ND	U	4.6	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	Styrene	39.2		2.7	10.4	ug/kg	39.2	
PSMF-LOC1-111723	EPA 8260D	tert-Butylbenzene	ND	U	3.7	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	Tetrachloroethene	ND	U	3.3	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	Toluene	54.0		7.1	10.4	ug/kg	54	J+
PSMF-LOC1-111723	EPA 8260D	trans-1,2-Dichloroethene	ND	U	8.8	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	trans-1,3-Dichloropropene	ND	U	3.6	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	Trichloroethene	ND	U	8.3	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	Trichlorofluoromethane	ND	U	5.7	10.4	ug/kg	10.4	U
PSMF-LOC1-111723	EPA 8260D	Vinyl acetate	ND	U	21.3	104	ug/kg	104	U
PSMF-LOC1-111723	EPA 8260D	Vinyl chloride	ND	U	5.3	20.7	ug/kg	20.7	U
PSMF-LOC1-111723	EPA 8260D	Xylene (Total)	45.4		5.9	20.7	ug/kg	45.4	J+

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC1-111723	EPA 8270E	1,2,4-Trichlorobenzene	ND	U	166	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	1,2-Dichlorobenzene	ND	U	152	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	1,3-Dichlorobenzene	ND	U	150	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	1,4-Dichlorobenzene	ND	U	161	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	1-Methylnaphthalene	ND	U	148	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	2,2'-Oxybis(1-chloropropane)	ND	U	201	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	2,4,5-Trichlorophenol	ND	U	193	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	2,4,6-Trichlorophenol	ND	U	174	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	2,4-Dichlorophenol	ND	U	165	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	2,4-Dimethylphenol	ND	U	175	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	2,4-Dinitrophenol	ND	U	1310	2110	ug/kg	2110	U
PSMF-LOC1-111723	EPA 8270E	2,4-Dinitrotoluene	ND	U	162	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	2,6-Dinitrotoluene	ND	U	155	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	2-Chloronaphthalene	ND	U	168	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	2-Chlorophenol	ND	U	159	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	2-Methylnaphthalene	ND	U	169	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	2-Methylphenol(o-Cresol)	ND	U	173	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	2-Nitroaniline	ND	U	345	2110	ug/kg	2110	U
PSMF-LOC1-111723	EPA 8270E	2-Nitrophenol	ND	U	183	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	3&4-Methylphenol(m&p Cresol)	ND	U	170	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	3,3'-Dichlorobenzidine	ND	U	285	844	ug/kg	844	U
PSMF-LOC1-111723	EPA 8270E	3-Nitroaniline	ND	U	331	2110	ug/kg	2110	U
PSMF-LOC1-111723	EPA 8270E	4,6-Dinitro-2-methylphenol	ND	U	394	844	ug/kg	844	U
PSMF-LOC1-111723	EPA 8270E	4-Bromophenylphenyl ether	ND	U	162	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	4-Chloro-3-methylphenol	ND	U	297	844	ug/kg	844	U
PSMF-LOC1-111723	EPA 8270E	4-Chloroaniline	ND	U	331	844	ug/kg	844	U
PSMF-LOC1-111723	EPA 8270E	4-Chlorophenylphenyl ether	ND	U	157	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	4-Nitroaniline	ND	U	321	844	ug/kg	844	U
PSMF-LOC1-111723	EPA 8270E	4-Nitrophenol	ND	U	816	2110	ug/kg	2110	U
PSMF-LOC1-111723	EPA 8270E	Acenaphthene	ND	U	148	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Acenaphthylene	ND	U	148	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Aniline	ND	U	165	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Anthracene	ND	U	138	422	ug/kg	422	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC1-111723	EPA 8270E	Benzo(a)anthracene	281	J	141	422	ug/kg	281	J
PSMF-LOC1-111723	EPA 8270E	Benzo(a)pyrene	192	J	146	422	ug/kg	192	J
PSMF-LOC1-111723	EPA 8270E	Benzo(b)fluoranthene	237	J	141	422	ug/kg	237	J
PSMF-LOC1-111723	EPA 8270E	Benzo(g,h,i)perylene	ND	U	164	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Benzo(k)fluoranthene	ND	U	148	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Benzoic Acid	ND	U	907	2110	ug/kg	2110	U
PSMF-LOC1-111723	EPA 8270E	Benzyl alcohol	ND	U	320	844	ug/kg	844	U
PSMF-LOC1-111723	EPA 8270E	bis(2-Chloroethoxy)methane	ND	U	175	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	bis(2-Chloroethyl) ether	ND	U	159	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	bis(2-Ethylhexyl)phthalate	ND	U	164	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Butylbenzylphthalate	ND	U	178	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Chrysene	227	J	154	422	ug/kg	227	J
PSMF-LOC1-111723	EPA 8270E	Dibenz(a,h)anthracene	ND	U	162	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Dibenzofuran	ND	U	152	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Diethylphthalate	ND	U	155	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Dimethylphthalate	ND	U	154	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Di-n-butylphthalate	ND	U	142	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Di-n-octylphthalate	ND	U	166	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Fluoranthene	593		145	422	ug/kg	593	
PSMF-LOC1-111723	EPA 8270E	Fluorene	ND	U	148	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Hexachloro-1,3-butadiene	ND	U	183	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Hexachlorobenzene	ND	U	165	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Hexachlorocyclopentadiene	ND	U	242	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Hexachloroethane	ND	U	161	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Indeno(1,2,3-cd)pyrene	ND	U	166	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Isophorone	ND	U	188	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Naphthalene	ND	U	143	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Nitrobenzene	ND	U	196	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	N-Nitrosodimethylamine	ND	U	142	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	N-Nitroso-di-n-propylamine	ND	U	159	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	N-Nitrosodiphenylamine	ND	U	150	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Pentachlorophenol	ND	U	413	844	ug/kg	844	U
PSMF-LOC1-111723	EPA 8270E	Phenanthrene	431		138	422	ug/kg	431	



EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC1-111723	EPA 8270E	Phenol	ND	U	188	422	ug/kg	422	U
PSMF-LOC1-111723	EPA 8270E	Pyrene	441		171	422	ug/kg	441	
PSMF-LOC1-111723	EPA 8270E	Pyridine	ND	U	133	422	ug/kg	422	U
PSMF-LOC1-111723-DUP	EPA 6010D	Aluminum	4750		1.7	8.0	mg/kg	4750	
PSMF-LOC1-111723-DUP	EPA 6010D	Antimony	ND	U	1.1	2.0	mg/kg	2.0	UJ
PSMF-LOC1-111723-DUP	EPA 6010D	Arsenic	2.2		0.33	2.0	mg/kg	2.2	
PSMF-LOC1-111723-DUP	EPA 6010D	Barium	32.4		0.091	0.80	mg/kg	32.4	
PSMF-LOC1-111723-DUP	EPA 6010D	Beryllium	0.06	J	0.010	0.080	mg/kg	0.060	J
PSMF-LOC1-111723-DUP	EPA 6010D	Cadmium	1.3		0.021	0.080	mg/kg	1.3	
PSMF-LOC1-111723-DUP	EPA 6010D	Calcium	1340		4.5	20.1	mg/kg	1340	
PSMF-LOC1-111723-DUP	EPA 6010D	Chromium	65.4		0.060	0.40	mg/kg	65.4	J+
PSMF-LOC1-111723-DUP	EPA 6010D	Cobalt	7.3		0.26	0.40	mg/kg	7.3	J-
PSMF-LOC1-111723-DUP	EPA 6010D	Copper	15.6		0.076	4.0	mg/kg	15.6	
PSMF-LOC1-111723-DUP	EPA 6010D	Iron	22000		36.2	402	mg/kg	22000	
PSMF-LOC1-111723-DUP	EPA 6010D	Lead	10.4		0.21	0.80	mg/kg	10.4	
PSMF-LOC1-111723-DUP	EPA 6010D	Magnesium	2590		0.55	8.0	mg/kg	2590	
PSMF-LOC1-111723-DUP	EPA 6010D	Manganese	245		0.081	0.40	mg/kg	245	
PSMF-LOC1-111723-DUP	EPA 6010D	Nickel	7.8		0.068	0.40	mg/kg	7.8	
PSMF-LOC1-111723-DUP	EPA 6010D	Potassium	251	J	9.8	402	mg/kg	251	J
PSMF-LOC1-111723-DUP	EPA 6010D	Selenium	ND	U	0.62	0.80	mg/kg	0.80	U
PSMF-LOC1-111723-DUP	EPA 6010D	Silver	ND	U	0.038	0.40	mg/kg	0.40	U
PSMF-LOC1-111723-DUP	EPA 6010D	Sodium	38.6	J	14.8	402	mg/kg	38.6	J
PSMF-LOC1-111723-DUP	EPA 6010D	Thallium	ND	U	0.31	0.80	mg/kg	0.80	U
PSMF-LOC1-111723-DUP	EPA 6010D	Vanadium	50.8		0.11	0.40	mg/kg	50.8	J
PSMF-LOC1-111723-DUP	EPA 6010D	Zinc	84.8		0.48	0.80	mg/kg	84.8	J-
PSMF-LOC1-111723-DUP	EPA 7471B	Mercury	ND	U	0.0044	0.0071	mg/kg	0.0071	U
PSMF-LOC1-111723-DUP	EPA 8082A	PCB-1016 (Aroclor 1016)	ND	U	16.7	42.0	ug/kg	42.0	U
PSMF-LOC1-111723-DUP	EPA 8082A	PCB-1221 (Aroclor 1221)	ND	U	28.2	42.0	ug/kg	42.0	U
PSMF-LOC1-111723-DUP	EPA 8082A	PCB-1232 (Aroclor 1232)	ND	U	18.7	42.0	ug/kg	42.0	U
PSMF-LOC1-111723-DUP	EPA 8082A	PCB-1242 (Aroclor 1242)	ND	U	10.2	42.0	ug/kg	42.0	U
PSMF-LOC1-111723-DUP	EPA 8082A	PCB-1248 (Aroclor 1248)	ND	U	11.3	42.0	ug/kg	42.0	U
PSMF-LOC1-111723-DUP	EPA 8082A	PCB-1254 (Aroclor 1254)	ND	U	18.4	42.0	ug/kg	42.0	U
PSMF-LOC1-111723-DUP	EPA 8082A	PCB-1260 (Aroclor 1260)	ND	U	18.6	42.0	ug/kg	42.0	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC1-111723-DUP	EPA 8260D	1,1,1,2-Tetrachloroethane	ND	U	2.9	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,1,1-Trichloroethane	ND	U	4.0	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,1,2,2-Tetrachloroethane	ND	U	2.0	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,1,2-Trichloroethane	ND	U	2.5	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,1-Dichloroethane	ND	U	3.2	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,1-Dichloroethene	ND	U	3.2	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,1-Dichloropropene	ND	U	3.7	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,2,3-Trichlorobenzene	ND	U	6.2	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,2,3-Trichloropropane	ND	U	3.9	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,2,4-Trichlorobenzene	ND	U	6.4	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,2,4-Trimethylbenzene	ND	U	4.6	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,2-Dibromo-3-chloropropane	ND	U	3.0	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,2-Dibromoethane (EDB)	ND	U	3.4	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,2-Dichlorobenzene	ND	U	2.8	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,2-Dichloroethane	ND	U	5.1	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,2-Dichloropropane	ND	U	2.3	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,3,5-Trimethylbenzene	ND	U	2.6	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,3-Dichlorobenzene	ND	U	2.4	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,3-Dichloropropane	ND	U	2.4	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	1,4-Dichlorobenzene	ND	U	2.0	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	2,2-Dichloropropane	ND	U	5.8	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	2-Butanone (MEK)	ND	U	36.8	153	ug/kg	153	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	2-Chlorotoluene	ND	U	2.7	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	2-Hexanone	ND	U	7.4	76.7	ug/kg	76.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	4-Chlorotoluene	ND	U	4.3	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	4-Methyl-2-pentanone (MIBK)	ND	U	7.4	76.7	ug/kg	76.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Acetone	ND	U	49.3	153	ug/kg	153	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Benzene	7.6	J	3.1	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Bromobenzene	ND	U	2.5	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Bromochloromethane	ND	U	2.3	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Bromodichloromethane	ND	U	3.0	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Bromoform	ND	U	2.7	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Bromomethane	ND	U	23.8	30.7	ug/kg	30.7	UJ

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC1-111723-DUP	EPA 8260D	Carbon tetrachloride	ND	U	2.9	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Chlorobenzene	ND	U	4.4	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Chloroethane	ND	U	5.9	15.3	ug/kg	15.3	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Chloroform	ND	U	6.4	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Chloromethane	ND	U	6.4	15.3	ug/kg	15.3	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	cis-1,2-Dichloroethene	ND	U	2.6	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	cis-1,3-Dichloropropene	ND	U	2.1	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Dibromochloromethane	ND	U	4.3	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Dibromomethane	ND	U	1.6	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Dichlorodifluoromethane	ND	U	7.8	15.3	ug/kg	15.3	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Diisopropyl ether	ND	U	2.1	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Ethylbenzene	10.4		3.6	7.7	ug/kg	10.4	J+
PSMF-LOC1-111723-DUP	EPA 8260D	Hexachloro-1,3-butadiene	ND	U	12.6	15.3	ug/kg	15.3	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Isopropylbenzene (Cumene)	ND	U	2.6	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	m&p-Xylene	8.2	J	5.2	15.3	ug/kg	15.3	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Methylene Chloride	ND	U	21.0	30.7	ug/kg	30.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Methyl-tert-butyl ether	ND	U	2.9	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Naphthalene	9.7		4.0	7.7	ug/kg	9.7	J
PSMF-LOC1-111723-DUP	EPA 8260D	n-Butylbenzene	ND	U	4.8	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	n-Propylbenzene	ND	U	2.7	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	o-Xylene	ND	U	3.4	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	p-Isopropyltoluene	ND	U	3.8	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	sec-Butylbenzene	ND	U	3.4	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Styrene	ND	U	2.0	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	tert-Butylbenzene	ND	U	2.7	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Tetrachloroethene	ND	U	2.4	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Toluene	10.1		5.3	7.7	ug/kg	10.1	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	trans-1,2-Dichloroethene	ND	U	6.5	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	trans-1,3-Dichloropropene	ND	U	2.6	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Trichloroethene	ND	U	6.2	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Trichlorofluoromethane	ND	U	4.2	7.7	ug/kg	7.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Vinyl acetate	ND	U	15.8	76.7	ug/kg	76.7	UJ
PSMF-LOC1-111723-DUP	EPA 8260D	Vinyl chloride	ND	U	3.9	15.3	ug/kg	15.3	UJ

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC1-111723-DUP	EPA 8260D	Xylene (Total)	8.2	J	4.4	15.3	ug/kg	15.3	UJ
PSMF-LOC1-111723-DUP	EPA 8270E	1,2,4-Trichlorobenzene	ND	U	165	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	1,2-Dichlorobenzene	ND	U	151	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	1,3-Dichlorobenzene	ND	U	149	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	1,4-Dichlorobenzene	ND	U	160	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	1-Methylnaphthalene	ND	U	148	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	2,2'-Oxybis(1-chloropropane)	ND	U	200	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	2,4,5-Trichlorophenol	ND	U	192	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	2,4,6-Trichlorophenol	ND	U	173	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	2,4-Dichlorophenol	ND	U	164	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	2,4-Dimethylphenol	ND	U	174	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	2,4-Dinitrophenol	ND	U	1300	2100	ug/kg	2100	U
PSMF-LOC1-111723-DUP	EPA 8270E	2,4-Dinitrotoluene	ND	U	162	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	2,6-Dinitrotoluene	ND	U	154	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	2-Chloronaphthalene	ND	U	167	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	2-Chlorophenol	ND	U	158	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	2-Methylnaphthalene	ND	U	168	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	2-Methylphenol(o-Cresol)	ND	U	172	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	2-Nitroaniline	ND	U	343	2100	ug/kg	2100	U
PSMF-LOC1-111723-DUP	EPA 8270E	2-Nitrophenol	ND	U	182	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	3&4-Methylphenol(m&p Cresol)	ND	U	169	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	3,3'-Dichlorobenzidine	ND	U	284	839	ug/kg	839	U
PSMF-LOC1-111723-DUP	EPA 8270E	3-Nitroaniline	ND	U	329	2100	ug/kg	2100	U
PSMF-LOC1-111723-DUP	EPA 8270E	4,6-Dinitro-2-methylphenol	ND	U	392	839	ug/kg	839	U
PSMF-LOC1-111723-DUP	EPA 8270E	4-Bromophenylphenyl ether	ND	U	162	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	4-Chloro-3-methylphenol	ND	U	295	839	ug/kg	839	U
PSMF-LOC1-111723-DUP	EPA 8270E	4-Chloroaniline	ND	U	329	839	ug/kg	839	U
PSMF-LOC1-111723-DUP	EPA 8270E	4-Chlorophenylphenyl ether	ND	U	156	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	4-Nitroaniline	ND	U	319	839	ug/kg	839	U
PSMF-LOC1-111723-DUP	EPA 8270E	4-Nitrophenol	ND	U	811	2100	ug/kg	2100	U
PSMF-LOC1-111723-DUP	EPA 8270E	Acenaphthene	ND	U	148	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Acenaphthylene	ND	U	148	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Aniline	ND	U	164	420	ug/kg	420	U



EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC1-111723-DUP	EPA 8270E	Anthracene	ND	U	137	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Benzo(a)anthracene	ND	U	140	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Benzo(a)pyrene	ND	U	145	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Benzo(b)fluoranthene	ND	U	140	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Benzo(g,h,i)perylene	ND	U	163	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Benzo(k)fluoranthene	ND	U	148	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Benzoic Acid	ND	U	902	2100	ug/kg	2100	U
PSMF-LOC1-111723-DUP	EPA 8270E	Benzyl alcohol	ND	U	318	839	ug/kg	839	U
PSMF-LOC1-111723-DUP	EPA 8270E	bis(2-Chloroethoxy)methane	ND	U	174	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	bis(2-Chloroethyl) ether	ND	U	158	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	bis(2-Ethylhexyl)phthalate	ND	U	163	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Butylbenzylphthalate	ND	U	177	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Chrysene	ND	U	153	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Dibenz(a,h)anthracene	ND	U	162	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Dibenzofuran	ND	U	151	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Diethylphthalate	ND	U	154	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Dimethylphthalate	ND	U	153	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Di-n-butylphthalate	ND	U	141	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Di-n-octylphthalate	ND	U	165	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Fluoranthene	ND	U	144	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Fluorene	ND	U	148	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Hexachloro-1,3-butadiene	ND	U	182	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Hexachlorobenzene	ND	U	164	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Hexachlorocyclopentadiene	ND	U	240	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Hexachloroethane	ND	U	160	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Indeno(1,2,3-cd)pyrene	ND	U	165	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Isophorone	ND	U	187	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Naphthalene	ND	U	142	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Nitrobenzene	ND	U	195	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	N-Nitrosodimethylamine	ND	U	141	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	N-Nitroso-di-n-propylamine	ND	U	158	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	N-Nitrosodiphenylamine	ND	U	149	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Pentachlorophenol	ND	U	411	839	ug/kg	839	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC1-111723-DUP	EPA 8270E	Phenanthrene	ND	U	137	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Phenol	ND	U	187	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Pyrene	ND	U	170	420	ug/kg	420	U
PSMF-LOC1-111723-DUP	EPA 8270E	Pyridine	ND	U	132	420	ug/kg	420	U
PSMF-LOC2-111723	EPA 6010D	Aluminum	3680		1.7	7.9	mg/kg	3680	
PSMF-LOC2-111723	EPA 6010D	Antimony	ND	U	1.1	2.0	mg/kg	2.0	U
PSMF-LOC2-111723	EPA 6010D	Arsenic	0.99	J	0.32	2.0	mg/kg	0.99	J
PSMF-LOC2-111723	EPA 6010D	Barium	20.7		0.090	0.79	mg/kg	20.7	
PSMF-LOC2-111723	EPA 6010D	Beryllium	0.058	J	0.010	0.079	mg/kg	0.058	J
PSMF-LOC2-111723	EPA 6010D	Cadmium	0.041	J	0.021	0.079	mg/kg	0.041	J
PSMF-LOC2-111723	EPA 6010D	Calcium	1030		4.5	19.9	mg/kg	1030	
PSMF-LOC2-111723	EPA 6010D	Chromium	22.6		0.060	0.40	mg/kg	22.6	
PSMF-LOC2-111723	EPA 6010D	Cobalt	1.7		0.26	0.40	mg/kg	1.7	
PSMF-LOC2-111723	EPA 6010D	Copper	22.9		0.075	4.0	mg/kg	22.9	
PSMF-LOC2-111723	EPA 6010D	Iron	11600		35.8	397	mg/kg	11600	
PSMF-LOC2-111723	EPA 6010D	Lead	10.4		0.21	0.79	mg/kg	10.4	
PSMF-LOC2-111723	EPA 6010D	Magnesium	1380		0.54	7.9	mg/kg	1380	
PSMF-LOC2-111723	EPA 6010D	Manganese	90.6		0.080	0.40	mg/kg	90.6	
PSMF-LOC2-111723	EPA 6010D	Nickel	4.5		0.068	0.40	mg/kg	4.5	
PSMF-LOC2-111723	EPA 6010D	Potassium	261	J	9.7	397	mg/kg	261	J
PSMF-LOC2-111723	EPA 6010D	Selenium	ND	U	0.61	0.79	mg/kg	0.79	U
PSMF-LOC2-111723	EPA 6010D	Silver	ND	U	0.037	0.40	mg/kg	0.40	U
PSMF-LOC2-111723	EPA 6010D	Sodium	32.5	J	14.6	397	mg/kg	32.5	J
PSMF-LOC2-111723	EPA 6010D	Thallium	ND	U	0.31	0.79	mg/kg	0.79	U
PSMF-LOC2-111723	EPA 6010D	Vanadium	35.4		0.11	0.40	mg/kg	35.4	
PSMF-LOC2-111723	EPA 6010D	Zinc	41.0		0.48	0.79	mg/kg	41	
PSMF-LOC2-111723	EPA 7471B	Mercury	0.014		0.0046	0.0075	mg/kg	0.014	
PSMF-LOC2-111723	EPA 8082A	PCB-1016 (Aroclor 1016)	ND	U	17.7	44.7	ug/kg	44.7	U
PSMF-LOC2-111723	EPA 8082A	PCB-1221 (Aroclor 1221)	ND	U	30.0	44.7	ug/kg	44.7	U
PSMF-LOC2-111723	EPA 8082A	PCB-1232 (Aroclor 1232)	ND	U	19.9	44.7	ug/kg	44.7	U
PSMF-LOC2-111723	EPA 8082A	PCB-1242 (Aroclor 1242)	ND	U	10.8	44.7	ug/kg	44.7	U
PSMF-LOC2-111723	EPA 8082A	PCB-1248 (Aroclor 1248)	ND	U	12.1	44.7	ug/kg	44.7	U
PSMF-LOC2-111723	EPA 8082A	PCB-1254 (Aroclor 1254)	ND	U	19.6	44.7	ug/kg	44.7	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC2-111723	EPA 8082A	PCB-1260 (Aroclor 1260)	ND	U	19.8	44.7	ug/kg	44.7	U
PSMF-LOC2-111723	EPA 8260D	1,1,1,2-Tetrachloroethane	ND	U	3.2	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,1,1-Trichloroethane	ND	U	4.3	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,1,2,2-Tetrachloroethane	ND	U	2.2	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,1,2-Trichloroethane	ND	U	2.8	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,1-Dichloroethane	ND	U	3.4	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,1-Dichloroethene	ND	U	3.4	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,1-Dichloropropene	ND	U	4.0	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,2,3-Trichlorobenzene	ND	U	6.7	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,2,3-Trichloropropane	ND	U	4.2	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,2,4-Trichlorobenzene	ND	U	7.0	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,2,4-Trimethylbenzene	ND	U	4.9	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,2-Dibromo-3-chloropropane	ND	U	3.2	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,2-Dibromoethane (EDB)	ND	U	3.7	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,2-Dichlorobenzene	ND	U	3.0	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,2-Dichloroethane	ND	U	5.5	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,2-Dichloropropane	ND	U	2.5	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,3,5-Trimethylbenzene	ND	U	2.8	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,3-Dichlorobenzene	ND	U	2.6	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,3-Dichloropropane	ND	U	2.6	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	1,4-Dichlorobenzene	ND	U	2.2	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	2,2-Dichloropropane	ND	U	6.3	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	2-Butanone (MEK)	ND	U	39.9	166	ug/kg	166	UJ
PSMF-LOC2-111723	EPA 8260D	2-Chlorotoluene	ND	U	2.9	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	2-Hexanone	ND	U	8.0	83.1	ug/kg	83.1	UJ
PSMF-LOC2-111723	EPA 8260D	4-Chlorotoluene	ND	U	4.6	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	4-Methyl-2-pentanone (MIBK)	ND	U	8.0	83.1	ug/kg	83.1	UJ
PSMF-LOC2-111723	EPA 8260D	Acetone	ND	U	53.3	166	ug/kg	166	UJ
PSMF-LOC2-111723	EPA 8260D	Benzene	11.5		3.3	8.3	ug/kg	11.5	J+
PSMF-LOC2-111723	EPA 8260D	Bromobenzene	ND	U	2.7	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	Bromochloromethane	ND	U	2.5	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	Bromodichloromethane	ND	U	3.2	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	Bromoform	ND	U	2.9	8.3	ug/kg	8.3	UJ

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC2-111723	EPA 8260D	Bromomethane	ND	U	25.8	33.2	ug/kg	33.2	UJ
PSMF-LOC2-111723	EPA 8260D	Carbon tetrachloride	ND	U	3.1	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	Chlorobenzene	ND	U	4.8	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	Chloroethane	ND	U	6.4	16.6	ug/kg	16.6	UJ
PSMF-LOC2-111723	EPA 8260D	Chloroform	ND	U	6.9	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	Chloromethane	ND	U	7.0	16.6	ug/kg	16.6	UJ
PSMF-LOC2-111723	EPA 8260D	cis-1,2-Dichloroethene	ND	U	2.8	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	cis-1,3-Dichloropropene	ND	U	2.3	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	Dibromochloromethane	ND	U	4.7	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	Dibromomethane	ND	U	1.8	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	Dichlorodifluoromethane	ND	U	8.5	16.6	ug/kg	16.6	UJ
PSMF-LOC2-111723	EPA 8260D	Diisopropyl ether	ND	U	2.2	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	Ethylbenzene	12.5		3.9	8.3	ug/kg	12.5	J+
PSMF-LOC2-111723	EPA 8260D	Hexachloro-1,3-butadiene	ND	U	13.6	16.6	ug/kg	16.6	UJ
PSMF-LOC2-111723	EPA 8260D	Isopropylbenzene (Cumene)	ND	U	2.8	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	m&p-Xylene	10.2	J	5.7	16.6	ug/kg	16.6	UJ
PSMF-LOC2-111723	EPA 8260D	Methylene Chloride	ND	U	22.8	33.2	ug/kg	33.2	UJ
PSMF-LOC2-111723	EPA 8260D	Methyl-tert-butyl ether	ND	U	3.1	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	Naphthalene	4.7	J	4.4	8.3	ug/kg	4.7	J
PSMF-LOC2-111723	EPA 8260D	n-Butylbenzene	ND	U	5.2	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	n-Propylbenzene	ND	U	3.0	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	o-Xylene	ND	U	3.7	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	p-Isopropyltoluene	ND	U	4.1	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	sec-Butylbenzene	ND	U	3.7	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	Styrene	ND	U	2.2	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	tert-Butylbenzene	ND	U	3.0	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	Tetrachloroethene	8.5		2.6	8.3	ug/kg	8.5	J
PSMF-LOC2-111723	EPA 8260D	Toluene	14.1		5.7	8.3	ug/kg	14.1	J+
PSMF-LOC2-111723	EPA 8260D	trans-1,2-Dichloroethene	ND	U	7.1	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	trans-1,3-Dichloropropene	ND	U	2.9	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	Trichloroethene	ND	U	6.7	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	Trichlorofluoromethane	ND	U	4.6	8.3	ug/kg	8.3	UJ
PSMF-LOC2-111723	EPA 8260D	Vinyl acetate	ND	U	17.1	83.1	ug/kg	83.1	UJ



EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC2-111723	EPA 8260D	Vinyl chloride	ND	U	4.2	16.6	ug/kg	16.6	UJ
PSMF-LOC2-111723	EPA 8260D	Xylene (Total)	10.2	J	4.7	16.6	ug/kg	16.6	UJ
PSMF-LOC2-111723	EPA 8270E	1,2,4-Trichlorobenzene	ND	U	175	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	1,2-Dichlorobenzene	ND	U	160	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	1,3-Dichlorobenzene	ND	U	157	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	1,4-Dichlorobenzene	ND	U	169	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	1-Methylnaphthalene	ND	U	156	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	2,2'-Oxybis(1-chloropropane)	ND	U	211	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	2,4,5-Trichlorophenol	ND	U	203	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	2,4,6-Trichlorophenol	ND	U	183	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	2,4-Dichlorophenol	ND	U	173	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	2,4-Dimethylphenol	ND	U	184	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	2,4-Dinitrophenol	ND	U	1370	2220	ug/kg	2220	U
PSMF-LOC2-111723	EPA 8270E	2,4-Dinitrotoluene	ND	U	171	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	2,6-Dinitrotoluene	ND	U	163	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	2-Chloronaphthalene	ND	U	176	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	2-Chlorophenol	ND	U	167	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	2-Methylnaphthalene	ND	U	177	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	2-Methylphenol(o-Cresol)	ND	U	181	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	2-Nitroaniline	ND	U	363	2220	ug/kg	2220	U
PSMF-LOC2-111723	EPA 8270E	2-Nitrophenol	ND	U	192	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	3&4-Methylphenol(m&p Cresol)	ND	U	179	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	3,3'-Dichlorobenzidine	ND	U	300	887	ug/kg	887	U
PSMF-LOC2-111723	EPA 8270E	3-Nitroaniline	ND	U	348	2220	ug/kg	2220	U
PSMF-LOC2-111723	EPA 8270E	4,6-Dinitro-2-methylphenol	ND	U	414	887	ug/kg	887	U
PSMF-LOC2-111723	EPA 8270E	4-Bromophenylphenyl ether	ND	U	171	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	4-Chloro-3-methylphenol	ND	U	312	887	ug/kg	887	U
PSMF-LOC2-111723	EPA 8270E	4-Chloroaniline	ND	U	348	887	ug/kg	887	U
PSMF-LOC2-111723	EPA 8270E	4-Chlorophenylphenyl ether	ND	U	165	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	4-Nitroaniline	ND	U	337	887	ug/kg	887	U
PSMF-LOC2-111723	EPA 8270E	4-Nitrophenol	ND	U	858	2220	ug/kg	2220	U
PSMF-LOC2-111723	EPA 8270E	Acenaphthene	ND	U	156	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Acenaphthylene	ND	U	156	444	ug/kg	444	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC2-111723	EPA 8270E	Aniline	ND	U	173	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Anthracene	ND	U	145	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Benzo(a)anthracene	ND	U	148	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Benzo(a)pyrene	ND	U	153	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Benzo(b)fluoranthene	ND	U	148	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Benzo(g,h,i)perylene	ND	U	172	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Benzo(k)fluoranthene	ND	U	156	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Benzoic Acid	ND	U	953	2220	ug/kg	2220	U
PSMF-LOC2-111723	EPA 8270E	Benzyl alcohol	ND	U	336	887	ug/kg	887	U
PSMF-LOC2-111723	EPA 8270E	bis(2-Chloroethoxy)methane	ND	U	184	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	bis(2-Chloroethyl) ether	ND	U	167	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	bis(2-Ethylhexyl)phthalate	ND	U	172	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Butylbenzylphthalate	ND	U	187	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Chrysene	ND	U	161	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Dibenz(a,h)anthracene	ND	U	171	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Dibenzofuran	ND	U	160	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Diethylphthalate	ND	U	163	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Dimethylphthalate	ND	U	161	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Di-n-butylphthalate	ND	U	149	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Di-n-octylphthalate	ND	U	175	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Fluoranthene	ND	U	152	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Fluorene	ND	U	156	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Hexachloro-1,3-butadiene	ND	U	192	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Hexachlorobenzene	ND	U	173	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Hexachlorocyclopentadiene	ND	U	254	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Hexachloroethane	ND	U	169	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Indeno(1,2,3-cd)pyrene	ND	U	175	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Isophorone	ND	U	198	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Naphthalene	ND	U	151	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Nitrobenzene	ND	U	206	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	N-Nitrosodimethylamine	ND	U	149	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	N-Nitroso-di-n-propylamine	ND	U	167	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	N-Nitrosodiphenylamine	ND	U	157	444	ug/kg	444	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC2-111723	EPA 8270E	Pentachlorophenol	ND	U	434	887	ug/kg	887	U
PSMF-LOC2-111723	EPA 8270E	Phenanthrene	ND	U	145	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Phenol	ND	U	198	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Pyrene	ND	U	180	444	ug/kg	444	U
PSMF-LOC2-111723	EPA 8270E	Pyridine	ND	U	140	444	ug/kg	444	U
PSMF-LOC3-111723	EPA 6010D	Aluminum	5400		20.2	93.1	mg/kg	5400	
PSMF-LOC3-111723	EPA 6010D	Antimony	ND	U	1.3	2.3	mg/kg	2.3	UJ
PSMF-LOC3-111723	EPA 6010D	Arsenic	2.8		0.38	2.3	mg/kg	2.8	
PSMF-LOC3-111723	EPA 6010D	Barium	31.1		0.11	0.93	mg/kg	31.1	
PSMF-LOC3-111723	EPA 6010D	Beryllium	0.11		0.012	0.093	mg/kg	0.11	
PSMF-LOC3-111723	EPA 6010D	Cadmium	0.029	J	0.024	0.093	mg/kg	0.029	J
PSMF-LOC3-111723	EPA 6010D	Calcium	1720		5.2	23.3	mg/kg	1720	J+
PSMF-LOC3-111723	EPA 6010D	Chromium	67.9		0.070	0.47	mg/kg	67.9	
PSMF-LOC3-111723	EPA 6010D	Cobalt	5.4		0.30	0.47	mg/kg	5.4	J
PSMF-LOC3-111723	EPA 6010D	Copper	18.1		0.088	4.7	mg/kg	18.1	
PSMF-LOC3-111723	EPA 6010D	Iron	30600		42.0	466	mg/kg	30600	
PSMF-LOC3-111723	EPA 6010D	Lead	28.0		0.24	0.93	mg/kg	28.0	J-
PSMF-LOC3-111723	EPA 6010D	Magnesium	1530		0.64	9.3	mg/kg	1530	J+
PSMF-LOC3-111723	EPA 6010D	Manganese	249		0.093	0.47	mg/kg	249	
PSMF-LOC3-111723	EPA 6010D	Nickel	6.8		0.079	0.47	mg/kg	6.8	
PSMF-LOC3-111723	EPA 6010D	Potassium	230	J	11.3	466	mg/kg	230	J
PSMF-LOC3-111723	EPA 6010D	Selenium	ND	U	0.72	0.93	mg/kg	0.93	U
PSMF-LOC3-111723	EPA 6010D	Silver	ND	U	0.044	0.47	mg/kg	0.47	U
PSMF-LOC3-111723	EPA 6010D	Sodium	45.1	J	17.1	466	mg/kg	45.1	J
PSMF-LOC3-111723	EPA 6010D	Thallium	ND	U	0.36	0.93	mg/kg	0.93	U
PSMF-LOC3-111723	EPA 6010D	Vanadium	103		0.13	0.47	mg/kg	103	
PSMF-LOC3-111723	EPA 6010D	Zinc	53.0		0.56	0.93	mg/kg	53	
PSMF-LOC3-111723	EPA 7471B	Mercury	ND	U	0.0038	0.0061	mg/kg	0.0061	U
PSMF-LOC3-111723	EPA 8082A	PCB-1016 (Aroclor 1016)	ND	U	15.7	39.6	ug/kg	39.6	U
PSMF-LOC3-111723	EPA 8082A	PCB-1221 (Aroclor 1221)	ND	U	26.6	39.6	ug/kg	39.6	U
PSMF-LOC3-111723	EPA 8082A	PCB-1232 (Aroclor 1232)	ND	U	17.6	39.6	ug/kg	39.6	U
PSMF-LOC3-111723	EPA 8082A	PCB-1242 (Aroclor 1242)	ND	U	9.6	39.6	ug/kg	39.6	U
PSMF-LOC3-111723	EPA 8082A	PCB-1248 (Aroclor 1248)	ND	U	10.7	39.6	ug/kg	39.6	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC3-111723	EPA 8082A	PCB-1254 (Aroclor 1254)	ND	U	17.4	39.6	ug/kg	39.6	U
PSMF-LOC3-111723	EPA 8082A	PCB-1260 (Aroclor 1260)	ND	U	17.5	39.6	ug/kg	39.6	U
PSMF-LOC3-111723	EPA 8260D	1,1,1,2-Tetrachloroethane	ND	U	1.4	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,1,1-Trichloroethane	ND	U	1.8	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,1,2,2-Tetrachloroethane	ND	U	0.94	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,1,2-Trichloroethane	ND	U	1.2	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,1-Dichloroethane	ND	U	1.5	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,1-Dichloroethene	ND	U	1.5	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,1-Dichloropropene	ND	U	1.7	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,2,3-Trichlorobenzene	ND	U	2.9	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,2,3-Trichloropropane	ND	U	1.8	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,2,4-Trichlorobenzene	ND	U	3.0	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,2,4-Trimethylbenzene	ND	U	2.1	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,2-Dibromo-3-chloropropane	ND	U	1.4	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,2-Dibromoethane (EDB)	ND	U	1.6	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,2-Dichlorobenzene	ND	U	1.3	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,2-Dichloroethane	ND	U	2.4	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,2-Dichloropropane	ND	U	1.1	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,3,5-Trimethylbenzene	ND	U	1.2	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,3-Dichlorobenzene	ND	U	1.1	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,3-Dichloropropane	ND	U	1.1	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	1,4-Dichlorobenzene	ND	U	0.92	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	2,2-Dichloropropane	ND	U	2.7	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	2-Butanone (MEK)	ND	U	17.0	71.0	ug/kg	71.0	U
PSMF-LOC3-111723	EPA 8260D	2-Chlorotoluene	ND	U	1.3	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	2-Hexanone	ND	U	3.4	35.5	ug/kg	35.5	U
PSMF-LOC3-111723	EPA 8260D	4-Chlorotoluene	ND	U	2.0	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	4-Methyl-2-pentanone (MIBK)	ND	U	3.4	35.5	ug/kg	35.5	U
PSMF-LOC3-111723	EPA 8260D	Acetone	ND	U	22.8	71.0	ug/kg	71.0	U
PSMF-LOC3-111723	EPA 8260D	Benzene	3.9		1.4	3.6	ug/kg	3.9	U
PSMF-LOC3-111723	EPA 8260D	Bromobenzene	ND	U	1.2	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	Bromochloromethane	ND	U	1.1	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	Bromodichloromethane	ND	U	1.4	3.6	ug/kg	3.6	U



EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC3-111723	EPA 8260D	Bromoform	ND	U	1.2	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	Bromomethane	ND	U	11.0	14.2	ug/kg	14.2	U
PSMF-LOC3-111723	EPA 8260D	Carbon tetrachloride	ND	U	1.3	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	Chlorobenzene	ND	U	2.0	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	Chloroethane	ND	U	2.7	7.1	ug/kg	7.1	U
PSMF-LOC3-111723	EPA 8260D	Chloroform	ND	U	3.0	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	Chloromethane	ND	U	3.0	7.1	ug/kg	7.1	U
PSMF-LOC3-111723	EPA 8260D	cis-1,2-Dichloroethene	ND	U	1.2	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	cis-1,3-Dichloropropene	ND	U	0.97	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	Dibromochloromethane	ND	U	2.0	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	Dibromomethane	ND	U	0.76	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	Dichlorodifluoromethane	ND	U	3.6	7.1	ug/kg	7.1	U
PSMF-LOC3-111723	EPA 8260D	Diisopropyl ether	ND	U	0.96	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	Ethylbenzene	3.3	J	1.7	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	Hexachloro-1,3-butadiene	ND	U	5.8	7.1	ug/kg	7.1	U
PSMF-LOC3-111723	EPA 8260D	Isopropylbenzene (Cumene)	ND	U	1.2	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	m&p-Xylene	3.5	J	2.4	7.1	ug/kg	7.1	U
PSMF-LOC3-111723	EPA 8260D	Methylene Chloride	ND	U	9.7	14.2	ug/kg	14.2	U
PSMF-LOC3-111723	EPA 8260D	Methyl-tert-butyl ether	ND	U	1.3	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	Naphthalene	3.1	J	1.9	3.6	ug/kg	3.1	J
PSMF-LOC3-111723	EPA 8260D	n-Butylbenzene	ND	U	2.2	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	n-Propylbenzene	ND	U	1.3	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	o-Xylene	ND	U	1.6	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	p-Isopropyltoluene	ND	U	1.7	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	sec-Butylbenzene	ND	U	1.6	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	Styrene	ND	U	0.94	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	tert-Butylbenzene	ND	U	1.3	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	Tetrachloroethene	1.8	J	1.1	3.6	ug/kg	1.8	J
PSMF-LOC3-111723	EPA 8260D	Toluene	5.2		2.4	3.6	ug/kg	5.2	U
PSMF-LOC3-111723	EPA 8260D	trans-1,2-Dichloroethene	ND	U	3.0	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	trans-1,3-Dichloropropene	ND	U	1.2	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	Trichloroethene	ND	U	2.9	3.6	ug/kg	3.6	U
PSMF-LOC3-111723	EPA 8260D	Trichlorofluoromethane	ND	U	2.0	3.6	ug/kg	3.6	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC3-111723	EPA 8260D	Vinyl acetate	ND	U	7.3	35.5	ug/kg	35.5	U
PSMF-LOC3-111723	EPA 8260D	Vinyl chloride	ND	U	1.8	7.1	ug/kg	7.1	U
PSMF-LOC3-111723	EPA 8260D	Xylene (Total)	3.5	J	2.0	7.1	ug/kg	7.1	U
PSMF-LOC3-111723	EPA 8270E	1,2,4-Trichlorobenzene	ND	U	152	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	1,2-Dichlorobenzene	ND	U	139	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	1,3-Dichlorobenzene	ND	U	137	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	1,4-Dichlorobenzene	ND	U	148	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	1-Methylnaphthalene	ND	U	136	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	2,2'-Oxybis(1-chloropropane)	ND	U	184	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	2,4,5-Trichlorophenol	ND	U	177	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	2,4,6-Trichlorophenol	ND	U	159	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	2,4-Dichlorophenol	ND	U	151	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	2,4-Dimethylphenol	ND	U	160	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	2,4-Dinitrophenol	ND	U	1190	1930	ug/kg	1930	U
PSMF-LOC3-111723	EPA 8270E	2,4-Dinitrotoluene	ND	U	149	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	2,6-Dinitrotoluene	ND	U	142	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	2-Chloronaphthalene	ND	U	153	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	2-Chlorophenol	ND	U	145	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	2-Methylnaphthalene	ND	U	155	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	2-Methylphenol(o-Cresol)	ND	U	158	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	2-Nitroaniline	ND	U	316	1930	ug/kg	1930	U
PSMF-LOC3-111723	EPA 8270E	2-Nitrophenol	ND	U	167	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	3&4-Methylphenol(m&p Cresol)	ND	U	156	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	3,3'-Dichlorobenzidine	ND	U	261	773	ug/kg	773	U
PSMF-LOC3-111723	EPA 8270E	3-Nitroaniline	ND	U	303	1930	ug/kg	1930	U
PSMF-LOC3-111723	EPA 8270E	4,6-Dinitro-2-methylphenol	ND	U	361	773	ug/kg	773	U
PSMF-LOC3-111723	EPA 8270E	4-Bromophenylphenyl ether	ND	U	149	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	4-Chloro-3-methylphenol	ND	U	272	773	ug/kg	773	U
PSMF-LOC3-111723	EPA 8270E	4-Chloroaniline	ND	U	303	773	ug/kg	773	U
PSMF-LOC3-111723	EPA 8270E	4-Chlorophenylphenyl ether	ND	U	144	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	4-Nitroaniline	ND	U	294	773	ug/kg	773	U
PSMF-LOC3-111723	EPA 8270E	4-Nitrophenol	ND	U	747	1930	ug/kg	1930	U
PSMF-LOC3-111723	EPA 8270E	Acenaphthene	ND	U	136	386	ug/kg	386	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC3-111723	EPA 8270E	Acenaphthylene	ND	U	136	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Aniline	ND	U	151	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Anthracene	ND	U	126	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Benzo(a)anthracene	ND	U	129	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Benzo(a)pyrene	ND	U	134	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Benzo(b)fluoranthene	ND	U	129	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Benzo(g,h,i)perylene	ND	U	150	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Benzo(k)fluoranthene	ND	U	136	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Benzoic Acid	ND	U	830	1930	ug/kg	1930	UJ
PSMF-LOC3-111723	EPA 8270E	Benzyl alcohol	ND	U	293	773	ug/kg	773	U
PSMF-LOC3-111723	EPA 8270E	bis(2-Chloroethoxy)methane	ND	U	160	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	bis(2-Chloroethyl) ether	ND	U	145	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	bis(2-Ethylhexyl)phthalate	ND	U	150	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Butylbenzylphthalate	ND	U	163	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Chrysene	ND	U	141	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Dibenz(a,h)anthracene	ND	U	149	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Dibenzofuran	ND	U	139	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Diethylphthalate	ND	U	142	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Dimethylphthalate	ND	U	141	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Di-n-butylphthalate	ND	U	130	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Di-n-octylphthalate	ND	U	152	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Fluoranthene	ND	U	132	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Fluorene	ND	U	136	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Hexachloro-1,3-butadiene	ND	U	167	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Hexachlorobenzene	ND	U	151	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Hexachlorocyclopentadiene	ND	U	221	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Hexachloroethane	ND	U	148	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Indeno(1,2,3-cd)pyrene	ND	U	152	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Isophorone	ND	U	172	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Naphthalene	ND	U	131	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Nitrobenzene	ND	U	179	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	N-Nitrosodimethylamine	ND	U	130	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	N-Nitroso-di-n-propylamine	ND	U	145	386	ug/kg	386	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-LOC3-111723	EPA 8270E	N-Nitrosodiphenylamine	ND	U	137	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Pentachlorophenol	ND	U	378	773	ug/kg	773	U
PSMF-LOC3-111723	EPA 8270E	Phenanthrene	ND	U	126	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Phenol	ND	U	172	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Pyrene	ND	U	157	386	ug/kg	386	U
PSMF-LOC3-111723	EPA 8270E	Pyridine	ND	U	122	386	ug/kg	386	U
PSMF-TB-111723	EPA 8260D	1,1,1,2-Tetrachloroethane	ND	U	1.9	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,1,1-Trichloroethane	ND	U	2.6	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,1,2,2-Tetrachloroethane	ND	U	1.3	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,1,2-Trichloroethane	ND	U	1.7	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,1-Dichloroethane	ND	U	2.1	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,1-Dichloroethene	ND	U	2.1	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,1-Dichloropropene	ND	U	2.4	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,2,3-Trichlorobenzene	ND	U	4.1	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,2,3-Trichloropropane	ND	U	2.5	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,2,4-Trichlorobenzene	ND	U	4.2	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,2,4-Trimethylbenzene	3	J	3.0	5.0	ug/kg	3.0	J
PSMF-TB-111723	EPA 8260D	1,2-Dibromo-3-chloropropane	ND	U	1.9	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,2-Dibromoethane (EDB)	ND	U	2.2	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,2-Dichlorobenzene	ND	U	1.8	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,2-Dichloroethane	ND	U	3.3	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,2-Dichloropropane	ND	U	1.5	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,3,5-Trimethylbenzene	ND	U	1.7	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,3-Dichlorobenzene	ND	U	1.6	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,3-Dichloropropane	ND	U	1.6	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	1,4-Dichlorobenzene	ND	U	1.3	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	2,2-Dichloropropane	ND	U	3.8	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	2-Butanone (MEK)	ND	U	24.1	100	ug/kg	100	UJ
PSMF-TB-111723	EPA 8260D	2-Chlorotoluene	ND	U	1.8	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	2-Hexanone	ND	U	4.8	50.2	ug/kg	50.2	UJ
PSMF-TB-111723	EPA 8260D	4-Chlorotoluene	ND	U	2.8	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	4-Methyl-2-pentanone (MIBK)	ND	U	4.8	50.2	ug/kg	50.2	UJ
PSMF-TB-111723	EPA 8260D	Acetone	ND	U	32.2	100	ug/kg	100	UJ

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-TB-111723	EPA 8260D	Benzene	10.0		2.0	5.0	ug/kg	10.0	J
PSMF-TB-111723	EPA 8260D	Bromobenzene	ND	U	1.6	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Bromochloromethane	ND	U	1.5	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Bromodichloromethane	ND	U	1.9	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Bromoform	ND	U	1.8	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Bromomethane	ND	U	15.6	20.1	ug/kg	20.1	UJ
PSMF-TB-111723	EPA 8260D	Carbon tetrachloride	ND	U	1.9	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Chlorobenzene	ND	U	2.9	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Chloroethane	ND	U	3.9	10.0	ug/kg	10.0	UJ
PSMF-TB-111723	EPA 8260D	Chloroform	ND	U	4.2	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Chloromethane	ND	U	4.2	10.0	ug/kg	10.0	UJ
PSMF-TB-111723	EPA 8260D	cis-1,2-Dichloroethene	ND	U	1.7	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	cis-1,3-Dichloropropene	ND	U	1.4	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Dibromochloromethane	ND	U	2.8	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Dibromomethane	ND	U	1.1	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Dichlorodifluoromethane	ND	U	5.1	10.0	ug/kg	10.0	UJ
PSMF-TB-111723	EPA 8260D	Diisopropyl ether	ND	U	1.4	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Ethylbenzene	8.5		2.3	5.0	ug/kg	8.5	J
PSMF-TB-111723	EPA 8260D	Hexachloro-1,3-butadiene	ND	U	8.2	10.0	ug/kg	10.0	UJ
PSMF-TB-111723	EPA 8260D	Isopropylbenzene (Cumene)	ND	U	1.7	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	m&p-Xylene	8	J	3.4	10.0	ug/kg	8.0	J
PSMF-TB-111723	EPA 8260D	Methylene Chloride	ND	U	13.8	20.1	ug/kg	20.1	UJ
PSMF-TB-111723	EPA 8260D	Methyl-tert-butyl ether	ND	U	1.9	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Naphthalene	ND	U	2.6	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	n-Butylbenzene	ND	U	3.2	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	n-Propylbenzene	ND	U	1.8	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	o-Xylene	ND	U	2.2	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	p-Isopropyltoluene	ND	U	2.5	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	sec-Butylbenzene	ND	U	2.2	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Styrene	ND	U	1.3	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	tert-Butylbenzene	ND	U	1.8	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Tetrachloroethene	ND	U	1.6	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Toluene	13.2		3.5	5.0	ug/kg	13.2	J



EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-TB-111723	EPA 8260D	trans-1,2-Dichloroethene	ND	U	4.3	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	trans-1,3-Dichloropropene	ND	U	1.7	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Trichloroethene	ND	U	4.0	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Trichlorofluoromethane	ND	U	2.8	5.0	ug/kg	5.0	UJ
PSMF-TB-111723	EPA 8260D	Vinyl acetate	ND	U	10.3	50.2	ug/kg	50.2	UJ
PSMF-TB-111723	EPA 8260D	Vinyl chloride	ND	U	2.6	10.0	ug/kg	10.0	UJ
PSMF-TB-111723	EPA 8260D	Xylene (Total)	8	J	2.9	10.0	ug/kg	8.0	J
PSMF-TB-111723	EPA 8270E	1,2,4-Trichlorobenzene	ND	U	132	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	1,2-Dichlorobenzene	ND	U	120	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	1,3-Dichlorobenzene	ND	U	118	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	1,4-Dichlorobenzene	ND	U	128	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	1-Methylnaphthalene	ND	U	117	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	2,2'-Oxybis(1-chloropropane)	ND	U	159	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	2,4,5-Trichlorophenol	ND	U	153	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	2,4,6-Trichlorophenol	ND	U	138	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	2,4-Dichlorophenol	ND	U	131	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	2,4-Dimethylphenol	ND	U	139	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	2,4-Dinitrophenol	ND	U	1030	1670	ug/kg	1670	U
PSMF-TB-111723	EPA 8270E	2,4-Dinitrotoluene	ND	U	129	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	2,6-Dinitrotoluene	ND	U	122	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	2-Chloronaphthalene	ND	U	133	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	2-Chlorophenol	ND	U	126	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	2-Methylnaphthalene	ND	U	134	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	2-Methylphenol(o-Cresol)	ND	U	137	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	2-Nitroaniline	ND	U	273	1670	ug/kg	1670	U
PSMF-TB-111723	EPA 8270E	2-Nitrophenol	ND	U	145	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	3&4-Methylphenol(m&p Cresol)	ND	U	135	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	3,3'-Dichlorobenzidine	ND	U	226	668	ug/kg	668	U
PSMF-TB-111723	EPA 8270E	3-Nitroaniline	ND	U	262	1670	ug/kg	1670	U
PSMF-TB-111723	EPA 8270E	4,6-Dinitro-2-methylphenol	ND	U	312	668	ug/kg	668	U
PSMF-TB-111723	EPA 8270E	4-Bromophenylphenyl ether	ND	U	129	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	4-Chloro-3-methylphenol	ND	U	235	668	ug/kg	668	U
PSMF-TB-111723	EPA 8270E	4-Chloroaniline	ND	U	262	668	ug/kg	668	U

EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY  
PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-TB-111723	EPA 8270E	4-Chlorophenylphenyl ether	ND	U	125	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	4-Nitroaniline	ND	U	254	668	ug/kg	668	U
PSMF-TB-111723	EPA 8270E	4-Nitrophenol	ND	U	646	1670	ug/kg	1670	U
PSMF-TB-111723	EPA 8270E	Acenaphthene	ND	U	117	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Acenaphthylene	ND	U	117	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Aniline	ND	U	131	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Anthracene	ND	U	109	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Benzo(a)anthracene	ND	U	111	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Benzo(a)pyrene	ND	U	115	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Benzo(b)fluoranthene	ND	U	111	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Benzo(g,h,i)perylene	ND	U	130	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Benzo(k)fluoranthene	ND	U	117	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Benzoic Acid	ND	U	718	1670	ug/kg	1670	U
PSMF-TB-111723	EPA 8270E	Benzyl alcohol	ND	U	253	668	ug/kg	668	U
PSMF-TB-111723	EPA 8270E	bis(2-Chloroethoxy)methane	ND	U	139	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	bis(2-Chloroethyl) ether	ND	U	126	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	bis(2-Ethylhexyl)phthalate	ND	U	130	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Butylbenzylphthalate	ND	U	141	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Chrysene	ND	U	121	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Dibenz(a,h)anthracene	ND	U	129	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Dibenzofuran	ND	U	120	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Diethylphthalate	ND	U	122	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Dimethylphthalate	ND	U	121	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Di-n-butylphthalate	ND	U	112	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Di-n-octylphthalate	ND	U	132	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Fluoranthene	ND	U	114	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Fluorene	ND	U	117	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Hexachloro-1,3-butadiene	ND	U	145	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Hexachlorobenzene	ND	U	131	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Hexachlorocyclopentadiene	ND	U	191	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Hexachloroethane	ND	U	128	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Indeno(1,2,3-cd)pyrene	ND	U	132	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Isophorone	ND	U	149	334	ug/kg	334	U

## EAST PARKER STREET TEXTILE MILL FIRE SOIL ANALYTICAL RESULTS SUMMARY

PACE ANALYTICAL, REPORT NO. 92699552

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-TB-111723	EPA 8270E	Naphthalene	ND	U	113	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Nitrobenzene	ND	U	155	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	N-Nitrosodimethylamine	ND	U	112	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	N-Nitroso-di-n-propylamine	ND	U	126	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	N-Nitrosodiphenylamine	ND	U	118	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Pentachlorophenol	ND	U	327	668	ug/kg	668	U
PSMF-TB-111723	EPA 8270E	Phenanthrene	ND	U	109	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Phenol	ND	U	149	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Pyrene	ND	U	136	334	ug/kg	334	U
PSMF-TB-111723	EPA 8270E	Pyridine	ND	U	105	334	ug/kg	334	U

## DATA VALIDATION CHECKLIST – STAGE 2A EPA REGION 4 START CONTRACT

<b>Site Name</b>	East Parker Street Textile Mill Fire	<b>TO/TOLIN No.</b>	82-073
<b>Data Reviewer (name and date)</b>	Kierra Johnson 2/12/2024	<b>Technical Reviewer (name and date)</b>	Josh Cope 2/15/2024
<b>Laboratory Report No.</b>	1123-014	<b>Laboratory</b>	Enthalpy Analytical, LLC / Durham, NC
<b>Analyses</b>	Volatile Organic Compounds (VOCs) by EPA Method TO-15		
<b>Samples and Matrix</b>	Four air samples		
<b>Collection Date(s)</b>	November 16-17, 2023		
<b>Field Duplicate Pairs</b>	None		
<b>Field QC Blanks</b>	None		

### INTRODUCTION

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech Quality Assurance Project Plan (QAPP), Superfund Technical Assessment and Response Team (START V), EPA Region 4, Revision 3 (October 2023), and the EPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (November 2020).

### OVERALL EVALUATION

No qualification or rejection of data was required for this data package. The results may be used as received from the laboratory.

#### Data completeness:

Within Criteria	Exceedance/Notes
Y	

#### Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
Y	

**DATA VALIDATION CHECKLIST – STAGE 2A  
EPA REGION 4 START CONTRACT**

**Method blanks:**

Within Criteria	Exceedance/Notes
N	<b>Batch X112023A:</b> The method blank contained ethanol and acetone at a concentration above the reporting limit (RL). All associated sample ethanol and acetone results are greater than 10 times the method blank concentration; therefore, no qualifications were applied.

**Field QC blanks:**

Within Criteria	Exceedance/Notes
NA	

**Surrogates and labeled compounds:**

Within Criteria	Exceedance/Notes
Y	

**MS/MSDs:**

Within Criteria	Exceedance/Notes
NA	

**Laboratory duplicates:**

Within Criteria	Exceedance/Notes
Y	



## DATA VALIDATION CHECKLIST – STAGE 2A EPA REGION 4 START CONTRACT

### Field duplicates:

Within Criteria	Exceedance/Notes
N	Per the region-specific QAPP, 1 field duplicate sample is required per 20 samples collected. However, a field duplicate was not collected with this sample group. Based on professional judgement, no qualifications were applied.

### LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	

### Sample dilutions:

Within Criteria	Exceedance/Notes
Y	All sample canisters were pressurized with inert gas to facilitate sample removal resulting in canister pressurization factors ranging from 1.737 to 1.817. All samples were analyzed at 0.667-fold dilutions to adjust for the canister pressurization. The resulting effective sample dilutions (pressurization factor * dilution factor) were 1.2-fold for all samples.

### Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

### MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	The laboratory reported method detection limits (MDLs) and RLs that were identical or similar. Analytes detected at concentrations above MDLs but below RLs were qualified as estimated (flagged J) by the laboratory.

## DATA VALIDATION CHECKLIST – STAGE 2A EPA REGION 4 START CONTRACT

### Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

### Other [None]:

Within Criteria	
NA	

### Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
ENTHALPY ANALYTICAL REPORT NO. 1123-014

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St3-VOC-111623	EPA Method TO-15	1,1,1,2-Tetrachloroethane	ND		0.0414	0.0477	PPBV	0.0477	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,1,1,2-Tetrachloroethane	ND		0.284	0.328	ug/m3	0.328	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,1,1-Trichloroethane	ND		0.0414	0.0478	PPBV	0.0478	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,1,1-Trichloroethane	ND		0.226	0.261	ug/m3	0.261	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,1,2,2-Tetrachloroethane	ND		0.0414	0.0479	PPBV	0.0479	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,1,2,2-Tetrachloroethane	ND		0.284	0.329	ug/m3	0.329	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,1,2-Trichloroethane	ND		0.0414	0.0482	PPBV	0.0482	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,1,2-Trichloroethane	ND		0.226	0.263	ug/m3	0.263	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,1-Dichloroethane	ND		0.0414	0.047	PPBV	0.0470	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,1-Dichloroethane	ND		0.168	0.19	ug/m3	0.190	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,1-Dichloroethene	ND		0.0414	0.0476	PPBV	0.0476	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,1-Dichloroethene	ND		0.164	0.189	ug/m3	0.189	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,2,4-Trichlorobenzene	ND		0.0414	0.0472	PPBV	0.0472	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,2,4-Trichlorobenzene	ND		0.307	0.35	ug/m3	0.350	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,2,4-Trimethylbenzene	0.0493		0.0414	0.0474	PPBV	0.0493	
PSMF-St3-VOC-111623	EPA Method TO-15	1,2,4-Trimethylbenzene	0.242		0.204	0.233	ug/m3	0.242	
PSMF-St3-VOC-111623	EPA Method TO-15	1,2-Dibromoethane	ND		0.0414	0.0484	PPBV	0.0484	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,2-Dibromoethane	ND		0.318	0.372	ug/m3	0.372	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,2-Dichlorobenzene	ND		0.0414	0.0480	PPBV	0.0480	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,2-Dichlorobenzene	ND		0.249	0.288	ug/m3	0.288	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,2-Dichloroethane	ND		0.0414	0.0487	PPBV	0.0487	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,2-Dichloroethane	ND		0.168	0.197	ug/m3	0.197	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,2-Dichloropropane	ND		0.0414	0.0477	PPBV	0.0477	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,2-Dichloropropane	ND		0.191	0.22	ug/m3	0.220	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,3,5-Trimethylbenzene	ND		0.0414	0.048	PPBV	0.0480	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,3,5-Trimethylbenzene	ND		0.204	0.236	ug/m3	0.236	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,3-Butadiene	0.116		0.0414	0.0461	PPBV	0.116	
PSMF-St3-VOC-111623	EPA Method TO-15	1,3-Butadiene	0.257		0.0916	0.102	ug/m3	0.257	
PSMF-St3-VOC-111623	EPA Method TO-15	1,3-Dichlorobenzene	ND		0.0414	0.0481	PPBV	0.0481	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,3-Dichlorobenzene	ND		0.249	0.289	ug/m3	0.289	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,4-Dichlorobenzene	ND		0.0414	0.0476	PPBV	0.0476	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,4-Dichlorobenzene	ND		0.249	0.286	ug/m3	0.286	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,4-Dioxane	ND		0.0414	0.0475	PPBV	0.0475	U
PSMF-St3-VOC-111623	EPA Method TO-15	1,4-Dioxane	ND		0.149	0.171	ug/m3	0.171	U

EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St3-VOC-111623	EPA Method TO-15	1-Bromopropane	ND		0.0414	0.047	PPBV	0.0470	U
PSMF-St3-VOC-111623	EPA Method TO-15	1-Bromopropane	ND		0.208	0.236	ug/m3	0.236	U
PSMF-St3-VOC-111623	EPA Method TO-15	1-Octene	ND		0.0414	0.0467	PPBV	0.0467	U
PSMF-St3-VOC-111623	EPA Method TO-15	1-Octene	ND		0.19	0.214	ug/m3	0.214	U
PSMF-St3-VOC-111623	EPA Method TO-15	2,2,4-trimethylpentane	0.111		0.0414	0.049	PPBV	0.111	
PSMF-St3-VOC-111623	EPA Method TO-15	2,2,4-trimethylpentane	0.516		0.193	0.229	ug/m3	0.516	
PSMF-St3-VOC-111623	EPA Method TO-15	2-Chlorotoluene	ND		0.0414	0.0478	PPBV	0.0478	U
PSMF-St3-VOC-111623	EPA Method TO-15	2-Chlorotoluene	ND		0.214	0.247	ug/m3	0.247	U
PSMF-St3-VOC-111623	EPA Method TO-15	2-Hexanone (Methyl butyl ketone)	ND		0.0414	0.0484	PPBV	0.0484	U
PSMF-St3-VOC-111623	EPA Method TO-15	2-Hexanone (Methyl butyl ketone)	ND		0.17	0.198	ug/m3	0.198	U
PSMF-St3-VOC-111623	EPA Method TO-15	4-Ethyltoluene	ND		0.0414	0.0482	PPBV	0.0482	U
PSMF-St3-VOC-111623	EPA Method TO-15	4-Ethyltoluene	ND		0.204	0.237	ug/m3	0.237	U
PSMF-St3-VOC-111623	EPA Method TO-15	Acetone	3.2		0.0414	0.0475	PPBV	3.20	
PSMF-St3-VOC-111623	EPA Method TO-15	Acetone	7.6		0.0984	0.113	ug/m3	7.60	
PSMF-St3-VOC-111623	EPA Method TO-15	Acetonitrile	0.184		0.0414	0.0472	PPBV	0.184	
PSMF-St3-VOC-111623	EPA Method TO-15	Acetonitrile	0.308		0.0695	0.0792	ug/m3	0.308	
PSMF-St3-VOC-111623	EPA Method TO-15	Acrolein	0.198		0.0414	0.0467	PPBV	0.198	
PSMF-St3-VOC-111623	EPA Method TO-15	Acrolein	0.453		0.095	0.107	ug/m3	0.453	
PSMF-St3-VOC-111623	EPA Method TO-15	Acrylonitrile	ND		0.0414	0.0482	PPBV	0.0482	U
PSMF-St3-VOC-111623	EPA Method TO-15	Acrylonitrile	ND		0.0899	0.105	ug/m3	0.105	U
PSMF-St3-VOC-111623	EPA Method TO-15	Allyl chloride (3-chloropropene)	ND		0.0414	0.0511	PPBV	0.0511	U
PSMF-St3-VOC-111623	EPA Method TO-15	Allyl chloride (3-chloropropene)	ND		0.13	0.16	ug/m3	0.160	U
PSMF-St3-VOC-111623	EPA Method TO-15	Benzene	0.362		0.0414	0.0476	PPBV	0.362	
PSMF-St3-VOC-111623	EPA Method TO-15	Benzene	1.15		0.132	0.152	ug/m3	1.15	
PSMF-St3-VOC-111623	EPA Method TO-15	Benzyl chloride	ND		0.0414	0.0476	PPBV	0.0476	U
PSMF-St3-VOC-111623	EPA Method TO-15	Benzyl chloride	ND		0.214	0.247	ug/m3	0.247	U
PSMF-St3-VOC-111623	EPA Method TO-15	Bromodichloromethane	ND		0.0414	0.0478	PPBV	0.0478	U
PSMF-St3-VOC-111623	EPA Method TO-15	Bromodichloromethane	ND		0.278	0.32	ug/m3	0.320	U
PSMF-St3-VOC-111623	EPA Method TO-15	Bromoethene (Vinyl bromide)	ND		0.0414	0.0463	PPBV	0.0463	U
PSMF-St3-VOC-111623	EPA Method TO-15	Bromoethene (Vinyl bromide)	ND		0.181	0.202	ug/m3	0.202	U
PSMF-St3-VOC-111623	EPA Method TO-15	Bromoform	ND		0.0414	0.0475	PPBV	0.0475	U
PSMF-St3-VOC-111623	EPA Method TO-15	Bromoform	ND		0.428	0.491	ug/m3	0.491	U
PSMF-St3-VOC-111623	EPA Method TO-15	Bromomethane	ND		0.0414	0.0465	PPBV	0.0465	U
PSMF-St3-VOC-111623	EPA Method TO-15	Bromomethane	ND		0.161	0.18	ug/m3	0.180	U

EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St3-VOC-111623	EPA Method TO-15	Carbon disulfide		ND	0.0414	0.0472	PPBV	0.0472	U
PSMF-St3-VOC-111623	EPA Method TO-15	Carbon disulfide		ND	0.129	0.147	ug/m3	0.147	U
PSMF-St3-VOC-111623	EPA Method TO-15	Carbon tetrachloride	0.0679		0.0414	0.0477	PPBV	0.0679	
PSMF-St3-VOC-111623	EPA Method TO-15	Carbon tetrachloride	0.427		0.261	0.3	ug/m3	0.427	
PSMF-St3-VOC-111623	EPA Method TO-15	Chlorobenzene		ND	0.0414	0.0488	PPBV	0.0488	U
PSMF-St3-VOC-111623	EPA Method TO-15	Chlorobenzene		ND	0.191	0.224	ug/m3	0.224	U
PSMF-St3-VOC-111623	EPA Method TO-15	Chloroethane		ND	0.0414	0.0481	PPBV	0.0481	U
PSMF-St3-VOC-111623	EPA Method TO-15	Chloroethane		ND	0.109	0.127	ug/m3	0.127	U
PSMF-St3-VOC-111623	EPA Method TO-15	Chloroethene (Vinyl chloride)		ND	0.0414	0.0473	PPBV	0.0473	U
PSMF-St3-VOC-111623	EPA Method TO-15	Chloroethene (Vinyl chloride)		ND	0.106	0.121	ug/m3	0.121	U
PSMF-St3-VOC-111623	EPA Method TO-15	Chloroform		ND	0.0414	0.0475	PPBV	0.0475	U
PSMF-St3-VOC-111623	EPA Method TO-15	Chloroform		ND	0.202	0.232	ug/m3	0.232	U
PSMF-St3-VOC-111623	EPA Method TO-15	Chloromethane	0.612		0.0414	0.0468	PPBV	0.612	
PSMF-St3-VOC-111623	EPA Method TO-15	Chloromethane	1.26		0.0855	0.0967	ug/m3	1.26	
PSMF-St3-VOC-111623	EPA Method TO-15	cis-1,2-Dichloroethene		ND	0.0414	0.0478	PPBV	0.0478	U
PSMF-St3-VOC-111623	EPA Method TO-15	cis-1,2-Dichloroethene		ND	0.164	0.19	ug/m3	0.190	U
PSMF-St3-VOC-111623	EPA Method TO-15	cis-1,3-Dichloropropene		ND	0.0414	0.047	PPBV	0.0470	U
PSMF-St3-VOC-111623	EPA Method TO-15	cis-1,3-Dichloropropene		ND	0.188	0.213	ug/m3	0.213	U
PSMF-St3-VOC-111623	EPA Method TO-15	Cyclohexane	0.228		0.0414	0.0485	PPBV	0.228	
PSMF-St3-VOC-111623	EPA Method TO-15	Cyclohexane	0.784		0.143	0.167	ug/m3	0.784	
PSMF-St3-VOC-111623	EPA Method TO-15	Dibromochloromethane		ND	0.0414	0.0477	PPBV	0.0477	U
PSMF-St3-VOC-111623	EPA Method TO-15	Dibromochloromethane		ND	0.353	0.406	ug/m3	0.406	U
PSMF-St3-VOC-111623	EPA Method TO-15	Ethanol	3.24		0.0469	0.0469	PPBV	3.24	
PSMF-St3-VOC-111623	EPA Method TO-15	Ethanol	6.1		0.0884	0.0884	ug/m3	6.10	
PSMF-St3-VOC-111623	EPA Method TO-15	Ethyl acetate	0.259		0.0414	0.0473	PPBV	0.259	
PSMF-St3-VOC-111623	EPA Method TO-15	Ethyl acetate	0.932		0.149	0.17	ug/m3	0.932	
PSMF-St3-VOC-111623	EPA Method TO-15	Ethylbenzene	0.119		0.0414	0.047	PPBV	0.119	
PSMF-St3-VOC-111623	EPA Method TO-15	Ethylbenzene	0.516		0.18	0.204	ug/m3	0.516	
PSMF-St3-VOC-111623	EPA Method TO-15	Freon 11 (CCl3F)	0.22		0.0414	0.05	PPBV	0.220	
PSMF-St3-VOC-111623	EPA Method TO-15	Freon 11 (CCl3F)	1.24		0.233	0.281	ug/m3	1.24	
PSMF-St3-VOC-111623	EPA Method TO-15	Freon 113 (C2Cl3F3)	0.0603		0.0414	0.0481	PPBV	0.0603	
PSMF-St3-VOC-111623	EPA Method TO-15	Freon 113 (C2Cl3F3)	0.462		0.317	0.368	ug/m3	0.462	
PSMF-St3-VOC-111623	EPA Method TO-15	Freon 114 (C2Cl2F4)		ND	0.0414	0.0475	PPBV	0.0475	U
PSMF-St3-VOC-111623	EPA Method TO-15	Freon 114 (C2Cl2F4)		ND	0.29	0.332	ug/m3	0.332	U



EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St3-VOC-111623	EPA Method TO-15	Freon 12 (CCl <sub>2</sub> F <sub>2</sub> )	0.461		0.0414	0.0464	PPBV	0.461	
PSMF-St3-VOC-111623	EPA Method TO-15	Freon 12 (CCl <sub>2</sub> F <sub>2</sub> )	2.28		0.205	0.229	ug/m3	2.28	
PSMF-St3-VOC-111623	EPA Method TO-15	Heptane	0.154		0.0414	0.048	PPBV	0.154	
PSMF-St3-VOC-111623	EPA Method TO-15	Heptane	0.629		0.17	0.196	ug/m3	0.629	
PSMF-St3-VOC-111623	EPA Method TO-15	Hexachlorobutadiene	ND		0.0414	0.0468	PPBV	0.0468	U
PSMF-St3-VOC-111623	EPA Method TO-15	Hexachlorobutadiene	ND		0.442	0.499	ug/m3	0.499	U
PSMF-St3-VOC-111623	EPA Method TO-15	Hexane	0.175		0.0414	0.0481	PPBV	0.175	
PSMF-St3-VOC-111623	EPA Method TO-15	Hexane	0.618		0.146	0.169	ug/m3	0.618	
PSMF-St3-VOC-111623	EPA Method TO-15	Isopropyl alcohol	2.25		0.0414	0.0472	PPBV	2.25	
PSMF-St3-VOC-111623	EPA Method TO-15	Isopropyl alcohol	5.53		0.102	0.116	ug/m3	5.53	
PSMF-St3-VOC-111623	EPA Method TO-15	Isopropylbenzene	ND		0.0414	0.0481	PPBV	0.0481	U
PSMF-St3-VOC-111623	EPA Method TO-15	Isopropylbenzene	ND		0.204	0.236	ug/m3	0.236	U
PSMF-St3-VOC-111623	EPA Method TO-15	m-/p-Xylenes	0.193		0.0414	0.048	PPBV	0.193	
PSMF-St3-VOC-111623	EPA Method TO-15	m-/p-Xylenes	0.837		0.18	0.208	ug/m3	0.837	
PSMF-St3-VOC-111623	EPA Method TO-15	Methyl ethyl ketone (2-Butanone)	0.244		0.0414	0.049	PPBV	0.244	
PSMF-St3-VOC-111623	EPA Method TO-15	Methyl ethyl ketone (2-Butanone)	0.718		0.122	0.144	ug/m3	0.718	
PSMF-St3-VOC-111623	EPA Method TO-15	Methyl isobutyl ketone	ND		0.0414	0.0492	PPBV	0.0492	U
PSMF-St3-VOC-111623	EPA Method TO-15	Methyl isobutyl ketone	ND		0.17	0.201	ug/m3	0.201	U
PSMF-St3-VOC-111623	EPA Method TO-15	Methyl methacrylate	ND		0.0414	0.0496	PPBV	0.0496	U
PSMF-St3-VOC-111623	EPA Method TO-15	Methyl methacrylate	ND		0.17	0.203	ug/m3	0.203	U
PSMF-St3-VOC-111623	EPA Method TO-15	Methyl tert-butyl ether	ND		0.0414	0.0487	PPBV	0.0487	U
PSMF-St3-VOC-111623	EPA Method TO-15	Methyl tert-butyl ether	ND		0.149	0.175	ug/m3	0.175	U
PSMF-St3-VOC-111623	EPA Method TO-15	Methylene chloride	0.146		0.0414	0.0485	PPBV	0.146	
PSMF-St3-VOC-111623	EPA Method TO-15	Methylene chloride	0.508		0.144	0.168	ug/m3	0.508	
PSMF-St3-VOC-111623	EPA Method TO-15	Naphthalene	ND		0.0414	0.0477	PPBV	0.0477	U
PSMF-St3-VOC-111623	EPA Method TO-15	Naphthalene	ND		0.217	0.25	ug/m3	0.250	U
PSMF-St3-VOC-111623	EPA Method TO-15	n-Octane	ND		0.0414	0.0488	PPBV	0.0488	U
PSMF-St3-VOC-111623	EPA Method TO-15	n-Octane	ND		0.193	0.228	ug/m3	0.228	U
PSMF-St3-VOC-111623	EPA Method TO-15	n-Propylbenzene	ND		0.0414	0.0486	PPBV	0.0486	U
PSMF-St3-VOC-111623	EPA Method TO-15	n-Propylbenzene	ND		0.204	0.239	ug/m3	0.239	U
PSMF-St3-VOC-111623	EPA Method TO-15	o-Xylene	0.0664		0.0414	0.0475	PPBV	0.0664	
PSMF-St3-VOC-111623	EPA Method TO-15	o-Xylene	0.288		0.18	0.206	ug/m3	0.288	
PSMF-St3-VOC-111623	EPA Method TO-15	Propylene	1.03		0.0414	0.0458	PPBV	1.03	
PSMF-St3-VOC-111623	EPA Method TO-15	Propylene	1.77		0.0713	0.0787	ug/m3	1.77	

EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St3-VOC-111623	EPA Method TO-15	Styrene	0.17		0.0414	0.0464	PPBV	0.170	
PSMF-St3-VOC-111623	EPA Method TO-15	Styrene	0.725		0.176	0.198	ug/m3	0.725	
PSMF-St3-VOC-111623	EPA Method TO-15	Tetrachloroethene	ND		0.0414	0.0484	PPBV	0.0484	U
PSMF-St3-VOC-111623	EPA Method TO-15	Tetrachloroethene	ND		0.281	0.328	ug/m3	0.328	U
PSMF-St3-VOC-111623	EPA Method TO-15	Tetrahydrofuran	ND		0.0414	0.0479	PPBV	0.0479	U
PSMF-St3-VOC-111623	EPA Method TO-15	Tetrahydrofuran	ND		0.122	0.141	ug/m3	0.141	U
PSMF-St3-VOC-111623	EPA Method TO-15	Toluene	1.1		0.0414	0.0482	PPBV	1.10	
PSMF-St3-VOC-111623	EPA Method TO-15	Toluene	4.13		0.156	0.182	ug/m3	4.13	
PSMF-St3-VOC-111623	EPA Method TO-15	trans-1,2-Dichloroethene	ND		0.0414	0.0483	PPBV	0.0483	U
PSMF-St3-VOC-111623	EPA Method TO-15	trans-1,2-Dichloroethene	ND		0.164	0.191	ug/m3	0.191	U
PSMF-St3-VOC-111623	EPA Method TO-15	trans-1,3-Dichloropropene	ND		0.0414	0.0489	PPBV	0.0489	U
PSMF-St3-VOC-111623	EPA Method TO-15	trans-1,3-Dichloropropene	ND		0.188	0.222	ug/m3	0.222	U
PSMF-St3-VOC-111623	EPA Method TO-15	Trichloroethene	ND		0.0414	0.0479	PPBV	0.0479	U
PSMF-St3-VOC-111623	EPA Method TO-15	Trichloroethene	ND		0.223	0.257	ug/m3	0.257	U
PSMF-St3-VOC-111623	EPA Method TO-15	Vinyl acetate	ND		0.0414	0.0484	PPBV	0.0484	U
PSMF-St3-VOC-111623	EPA Method TO-15	Vinyl acetate	ND		0.146	0.17	ug/m3	0.170	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,1,1,2-Tetrachloroethane	ND		0.0424	0.0489	PPBV	0.0489	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,1,1,2-Tetrachloroethane	ND		0.291	0.335	ug/m3	0.335	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,1,1-Trichloroethane	ND		0.0424	0.049	PPBV	0.0490	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,1,1-Trichloroethane	ND		0.231	0.267	ug/m3	0.267	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,1,2,2-Tetrachloroethane	ND		0.0424	0.049	PPBV	0.0490	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,1,2,2-Tetrachloroethane	ND		0.291	0.336	ug/m3	0.336	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,1,2-Trichloroethane	ND		0.0424	0.0493	PPBV	0.0493	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,1,2-Trichloroethane	ND		0.231	0.269	ug/m3	0.269	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,1-Dichloroethane	ND		0.0424	0.0481	PPBV	0.0481	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,1-Dichloroethane	ND		0.172	0.195	ug/m3	0.195	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,1-Dichloroethene	ND		0.0424	0.0488	PPBV	0.0488	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,1-Dichloroethene	ND		0.168	0.193	ug/m3	0.193	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,2,4-Trichlorobenzene	ND		0.0424	0.0483	PPBV	0.0483	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,2,4-Trichlorobenzene	ND		0.315	0.358	ug/m3	0.358	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,2,4-Trimethylbenzene	0.145		0.0424	0.0485	PPBV	0.145	
PSMF-St4-VOC-111723	EPA Method TO-15	1,2,4-Trimethylbenzene	0.71		0.208	0.238	ug/m3	0.710	
PSMF-St4-VOC-111723	EPA Method TO-15	1,2-Dibromoethane	ND		0.0424	0.0496	PPBV	0.0496	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,2-Dibromoethane	ND		0.326	0.381	ug/m3	0.381	U

EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St4-VOC-111723	EPA Method TO-15	1,2-Dichlorobenzene	ND		0.0424	0.0491	PPBV	0.0491	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,2-Dichlorobenzene	ND		0.255	0.295	ug/m3	0.295	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,2-Dichloroethane	ND		0.0424	0.0499	PPBV	0.0499	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,2-Dichloroethane	ND		0.172	0.202	ug/m3	0.202	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,2-Dichloropropane	ND		0.0424	0.0488	PPBV	0.0488	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,2-Dichloropropane	ND		0.196	0.225	ug/m3	0.225	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,3,5-Trimethylbenzene	0.046	J	0.0424	0.0491	PPBV	0.0460	J
PSMF-St4-VOC-111723	EPA Method TO-15	1,3,5-Trimethylbenzene	0.226	J	0.208	0.241	ug/m3	0.226	J
PSMF-St4-VOC-111723	EPA Method TO-15	1,3-Butadiene	0.461		0.0424	0.0472	PPBV	0.461	
PSMF-St4-VOC-111723	EPA Method TO-15	1,3-Butadiene	1.02		0.0938	0.104	ug/m3	1.02	
PSMF-St4-VOC-111723	EPA Method TO-15	1,3-Dichlorobenzene	ND		0.0424	0.0492	PPBV	0.0492	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,3-Dichlorobenzene	ND		0.255	0.296	ug/m3	0.296	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,4-Dichlorobenzene	ND		0.0424	0.0487	PPBV	0.0487	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,4-Dichlorobenzene	ND		0.255	0.293	ug/m3	0.293	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,4-Dioxane	ND		0.0424	0.0486	PPBV	0.0486	U
PSMF-St4-VOC-111723	EPA Method TO-15	1,4-Dioxane	ND		0.153	0.175	ug/m3	0.175	U
PSMF-St4-VOC-111723	EPA Method TO-15	1-Bromopropane	ND		0.0424	0.0481	PPBV	0.0481	U
PSMF-St4-VOC-111723	EPA Method TO-15	1-Bromopropane	ND		0.213	0.242	ug/m3	0.242	U
PSMF-St4-VOC-111723	EPA Method TO-15	1-Octene	0.059		0.0424	0.0478	PPBV	0.0590	
PSMF-St4-VOC-111723	EPA Method TO-15	1-Octene	0.271		0.195	0.219	ug/m3	0.271	
PSMF-St4-VOC-111723	EPA Method TO-15	2,2,4-trimethylpentane	0.293		0.0424	0.0501	PPBV	0.293	
PSMF-St4-VOC-111723	EPA Method TO-15	2,2,4-trimethylpentane	1.37		0.198	0.234	ug/m3	1.37	
PSMF-St4-VOC-111723	EPA Method TO-15	2-Chlorotoluene	ND		0.0424	0.0489	PPBV	0.0489	U
PSMF-St4-VOC-111723	EPA Method TO-15	2-Chlorotoluene	ND		0.219	0.253	ug/m3	0.253	U
PSMF-St4-VOC-111723	EPA Method TO-15	2-Hexanone (Methyl butyl ketone)	ND		0.0424	0.0496	PPBV	0.0496	U
PSMF-St4-VOC-111723	EPA Method TO-15	2-Hexanone (Methyl butyl ketone)	ND		0.174	0.203	ug/m3	0.203	U
PSMF-St4-VOC-111723	EPA Method TO-15	4-Ethyltoluene	0.0482	J	0.0424	0.0493	PPBV	0.0482	J
PSMF-St4-VOC-111723	EPA Method TO-15	4-Ethyltoluene	0.237	J	0.208	0.242	ug/m3	0.237	J
PSMF-St4-VOC-111723	EPA Method TO-15	Acetone	6.81		0.0424	0.0486	PPBV	6.81	
PSMF-St4-VOC-111723	EPA Method TO-15	Acetone	16.2		0.101	0.115	ug/m3	16.2	
PSMF-St4-VOC-111723	EPA Method TO-15	Acetonitrile	0.601		0.0424	0.0483	PPBV	0.601	
PSMF-St4-VOC-111723	EPA Method TO-15	Acetonitrile	1.01		0.0712	0.0811	ug/m3	1.01	
PSMF-St4-VOC-111723	EPA Method TO-15	Acrolein	0.396		0.0424	0.0477	PPBV	0.396	
PSMF-St4-VOC-111723	EPA Method TO-15	Acrolein	0.908		0.0972	0.109	ug/m3	0.908	

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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St4-VOC-111723	EPA Method TO-15	Acrylonitrile	0.0702		0.0424	0.0493	PPBV	0.0702	
PSMF-St4-VOC-111723	EPA Method TO-15	Acrylonitrile	0.152		0.092	0.107	ug/m3	0.152	
PSMF-St4-VOC-111723	EPA Method TO-15	Allyl chloride (3-chloropropene)	ND		0.0424	0.0523	PPBV	0.0523	U
PSMF-St4-VOC-111723	EPA Method TO-15	Allyl chloride (3-chloropropene)	ND		0.133	0.164	ug/m3	0.164	U
PSMF-St4-VOC-111723	EPA Method TO-15	Benzene	1.43		0.0424	0.0488	PPBV	1.43	
PSMF-St4-VOC-111723	EPA Method TO-15	Benzene	4.56		0.135	0.156	ug/m3	4.56	
PSMF-St4-VOC-111723	EPA Method TO-15	Benzyl chloride	ND		0.0424	0.0488	PPBV	0.0488	U
PSMF-St4-VOC-111723	EPA Method TO-15	Benzyl chloride	ND		0.219	0.252	ug/m3	0.252	U
PSMF-St4-VOC-111723	EPA Method TO-15	Bromodichloromethane	ND		0.0424	0.049	PPBV	0.0490	U
PSMF-St4-VOC-111723	EPA Method TO-15	Bromodichloromethane	ND		0.284	0.328	ug/m3	0.328	U
PSMF-St4-VOC-111723	EPA Method TO-15	Bromoethene (Vinyl bromide)	ND		0.0424	0.0474	PPBV	0.0474	U
PSMF-St4-VOC-111723	EPA Method TO-15	Bromoethene (Vinyl bromide)	ND		0.185	0.207	ug/m3	0.207	U
PSMF-St4-VOC-111723	EPA Method TO-15	Bromoform	ND		0.0424	0.0486	PPBV	0.0486	U
PSMF-St4-VOC-111723	EPA Method TO-15	Bromoform	ND		0.438	0.502	ug/m3	0.502	U
PSMF-St4-VOC-111723	EPA Method TO-15	Bromomethane	ND		0.0424	0.0476	PPBV	0.0476	U
PSMF-St4-VOC-111723	EPA Method TO-15	Bromomethane	ND		0.165	0.185	ug/m3	0.185	U
PSMF-St4-VOC-111723	EPA Method TO-15	Carbon disulfide	0.0429	J	0.0424	0.0483	PPBV	0.0429	J
PSMF-St4-VOC-111723	EPA Method TO-15	Carbon disulfide	0.134	J	0.132	0.15	ug/m3	0.134	J
PSMF-St4-VOC-111723	EPA Method TO-15	Carbon tetrachloride	0.0713		0.0424	0.0488	PPBV	0.0713	
PSMF-St4-VOC-111723	EPA Method TO-15	Carbon tetrachloride	0.448		0.267	0.307	ug/m3	0.448	
PSMF-St4-VOC-111723	EPA Method TO-15	Chlorobenzene	ND		0.0424	0.0499	PPBV	0.0499	U
PSMF-St4-VOC-111723	EPA Method TO-15	Chlorobenzene	ND		0.195	0.23	ug/m3	0.230	U
PSMF-St4-VOC-111723	EPA Method TO-15	Chloroethane	ND		0.0424	0.0492	PPBV	0.0492	U
PSMF-St4-VOC-111723	EPA Method TO-15	Chloroethane	ND		0.112	0.13	ug/m3	0.130	U
PSMF-St4-VOC-111723	EPA Method TO-15	Chloroethene (Vinyl chloride)	ND		0.0424	0.0484	PPBV	0.0484	U
PSMF-St4-VOC-111723	EPA Method TO-15	Chloroethene (Vinyl chloride)	ND		0.108	0.124	ug/m3	0.124	U
PSMF-St4-VOC-111723	EPA Method TO-15	Chloroform	0.0429	J	0.0424	0.0486	PPBV	0.0429	J
PSMF-St4-VOC-111723	EPA Method TO-15	Chloroform	0.209	J	0.207	0.237	ug/m3	0.209	J
PSMF-St4-VOC-111723	EPA Method TO-15	Chloromethane	0.767		0.0424	0.0479	PPBV	0.767	
PSMF-St4-VOC-111723	EPA Method TO-15	Chloromethane	1.58		0.0875	0.0989	ug/m3	1.58	
PSMF-St4-VOC-111723	EPA Method TO-15	cis-1,2-Dichloroethene	ND		0.0424	0.049	PPBV	0.0490	U
PSMF-St4-VOC-111723	EPA Method TO-15	cis-1,2-Dichloroethene	ND		0.168	0.194	ug/m3	0.194	U
PSMF-St4-VOC-111723	EPA Method TO-15	cis-1,3-Dichloropropene	ND		0.0424	0.0481	PPBV	0.0481	U
PSMF-St4-VOC-111723	EPA Method TO-15	cis-1,3-Dichloropropene	ND		0.192	0.218	ug/m3	0.218	U

EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St4-VOC-111723	EPA Method TO-15	Cyclohexane	0.348		0.0424	0.0497	PPBV	0.348	
PSMF-St4-VOC-111723	EPA Method TO-15	Cyclohexane	1.2		0.146	0.171	ug/m3	1.20	
PSMF-St4-VOC-111723	EPA Method TO-15	Dibromochloromethane	ND		0.0424	0.0489	PPBV	0.0489	U
PSMF-St4-VOC-111723	EPA Method TO-15	Dibromochloromethane	ND		0.361	0.416	ug/m3	0.416	U
PSMF-St4-VOC-111723	EPA Method TO-15	Ethanol	4.37		0.048	0.048	PPBV	4.37	
PSMF-St4-VOC-111723	EPA Method TO-15	Ethanol	8.23		0.0905	0.0905	ug/m3	8.23	
PSMF-St4-VOC-111723	EPA Method TO-15	Ethyl acetate	0.166		0.0424	0.0484	PPBV	0.166	
PSMF-St4-VOC-111723	EPA Method TO-15	Ethyl acetate	0.599		0.153	0.174	ug/m3	0.599	
PSMF-St4-VOC-111723	EPA Method TO-15	Ethylbenzene	0.553		0.0424	0.0481	PPBV	0.553	
PSMF-St4-VOC-111723	EPA Method TO-15	Ethylbenzene	2.4		0.184	0.209	ug/m3	2.40	
PSMF-St4-VOC-111723	EPA Method TO-15	Freon 11 (CCl3F)	0.23		0.0424	0.0511	PPBV	0.230	
PSMF-St4-VOC-111723	EPA Method TO-15	Freon 11 (CCl3F)	1.29		0.238	0.287	ug/m3	1.29	
PSMF-St4-VOC-111723	EPA Method TO-15	Freon 113 (C2Cl3F3)	0.0616		0.0424	0.0492	PPBV	0.0616	
PSMF-St4-VOC-111723	EPA Method TO-15	Freon 113 (C2Cl3F3)	0.472		0.325	0.377	ug/m3	0.472	
PSMF-St4-VOC-111723	EPA Method TO-15	Freon 114 (C2Cl2F4)	ND		0.0424	0.0486	PPBV	0.0486	U
PSMF-St4-VOC-111723	EPA Method TO-15	Freon 114 (C2Cl2F4)	ND		0.296	0.339	ug/m3	0.339	U
PSMF-St4-VOC-111723	EPA Method TO-15	Freon 12 (CCl2F2)	0.473		0.0424	0.0475	PPBV	0.473	
PSMF-St4-VOC-111723	EPA Method TO-15	Freon 12 (CCl2F2)	2.34		0.21	0.235	ug/m3	2.34	
PSMF-St4-VOC-111723	EPA Method TO-15	Heptane	0.291		0.0424	0.0491	PPBV	0.291	
PSMF-St4-VOC-111723	EPA Method TO-15	Heptane	1.19		0.174	0.201	ug/m3	1.19	
PSMF-St4-VOC-111723	EPA Method TO-15	Hexachlorobutadiene	ND		0.0424	0.0479	PPBV	0.0479	U
PSMF-St4-VOC-111723	EPA Method TO-15	Hexachlorobutadiene	ND		0.452	0.51	ug/m3	0.510	U
PSMF-St4-VOC-111723	EPA Method TO-15	Hexane	0.579		0.0424	0.0492	PPBV	0.579	
PSMF-St4-VOC-111723	EPA Method TO-15	Hexane	2.04		0.149	0.173	ug/m3	2.04	
PSMF-St4-VOC-111723	EPA Method TO-15	Isopropyl alcohol	1.48		0.0424	0.0483	PPBV	1.48	
PSMF-St4-VOC-111723	EPA Method TO-15	Isopropyl alcohol	3.63		0.104	0.119	ug/m3	3.63	
PSMF-St4-VOC-111723	EPA Method TO-15	Isopropylbenzene	0.104		0.0424	0.0492	PPBV	0.104	
PSMF-St4-VOC-111723	EPA Method TO-15	Isopropylbenzene	0.512		0.208	0.242	ug/m3	0.512	
PSMF-St4-VOC-111723	EPA Method TO-15	m-/p-Xylenes	0.613		0.0424	0.0491	PPBV	0.613	
PSMF-St4-VOC-111723	EPA Method TO-15	m-/p-Xylenes	2.66		0.184	0.213	ug/m3	2.66	
PSMF-St4-VOC-111723	EPA Method TO-15	Methyl ethyl ketone (2-Butanone)	0.525		0.0424	0.0501	PPBV	0.525	
PSMF-St4-VOC-111723	EPA Method TO-15	Methyl ethyl ketone (2-Butanone)	1.55		0.125	0.148	ug/m3	1.55	
PSMF-St4-VOC-111723	EPA Method TO-15	Methyl isobutyl ketone	0.0774		0.0424	0.0504	PPBV	0.0774	
PSMF-St4-VOC-111723	EPA Method TO-15	Methyl isobutyl ketone	0.317		0.174	0.206	ug/m3	0.317	

EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St4-VOC-111723	EPA Method TO-15	Methyl methacrylate	0.0713		0.0424	0.0507	PPBV	0.0713	
PSMF-St4-VOC-111723	EPA Method TO-15	Methyl methacrylate	0.292		0.174	0.208	ug/m3	0.292	
PSMF-St4-VOC-111723	EPA Method TO-15	Methyl tert-butyl ether		ND	0.0424	0.0498	PPBV	0.0498	U
PSMF-St4-VOC-111723	EPA Method TO-15	Methyl tert-butyl ether		ND	0.153	0.18	ug/m3	0.180	U
PSMF-St4-VOC-111723	EPA Method TO-15	Methylene chloride	0.149		0.0424	0.0496	PPBV	0.149	
PSMF-St4-VOC-111723	EPA Method TO-15	Methylene chloride	0.518		0.147	0.172	ug/m3	0.518	
PSMF-St4-VOC-111723	EPA Method TO-15	Naphthalene	0.0495		0.0424	0.0488	PPBV	0.0495	
PSMF-St4-VOC-111723	EPA Method TO-15	Naphthalene	0.259		0.222	0.256	ug/m3	0.259	
PSMF-St4-VOC-111723	EPA Method TO-15	n-Octane	0.13		0.0424	0.0499	PPBV	0.130	
PSMF-St4-VOC-111723	EPA Method TO-15	n-Octane	0.606		0.198	0.233	ug/m3	0.606	
PSMF-St4-VOC-111723	EPA Method TO-15	n-Propylbenzene	0.0435	J	0.0424	0.0497	PPBV	0.0435	J
PSMF-St4-VOC-111723	EPA Method TO-15	n-Propylbenzene	0.214	J	0.208	0.244	ug/m3	0.214	J
PSMF-St4-VOC-111723	EPA Method TO-15	o-Xylene	0.211		0.0424	0.0486	PPBV	0.211	
PSMF-St4-VOC-111723	EPA Method TO-15	o-Xylene	0.917		0.184	0.211	ug/m3	0.917	
PSMF-St4-VOC-111723	EPA Method TO-15	Propylene	4.06		0.0424	0.0468	PPBV	4.06	
PSMF-St4-VOC-111723	EPA Method TO-15	Propylene	6.99		0.0729	0.0805	ug/m3	6.99	
PSMF-St4-VOC-111723	EPA Method TO-15	Styrene	1.36		0.0424	0.0475	PPBV	1.36	
PSMF-St4-VOC-111723	EPA Method TO-15	Styrene	5.77		0.181	0.202	ug/m3	5.77	
PSMF-St4-VOC-111723	EPA Method TO-15	Tetrachloroethene		ND	0.0424	0.0496	PPBV	0.0496	U
PSMF-St4-VOC-111723	EPA Method TO-15	Tetrachloroethene		ND	0.287	0.336	ug/m3	0.336	U
PSMF-St4-VOC-111723	EPA Method TO-15	Tetrahydrofuran	0.134		0.0424	0.0491	PPBV	0.134	
PSMF-St4-VOC-111723	EPA Method TO-15	Tetrahydrofuran	0.396		0.125	0.145	ug/m3	0.396	
PSMF-St4-VOC-111723	EPA Method TO-15	Toluene	1.8		0.0424	0.0493	PPBV	1.80	
PSMF-St4-VOC-111723	EPA Method TO-15	Toluene	6.79		0.16	0.186	ug/m3	6.79	
PSMF-St4-VOC-111723	EPA Method TO-15	trans-1,2-Dichloroethene		ND	0.0424	0.0494	PPBV	0.0494	U
PSMF-St4-VOC-111723	EPA Method TO-15	trans-1,2-Dichloroethene		ND	0.168	0.196	ug/m3	0.196	U
PSMF-St4-VOC-111723	EPA Method TO-15	trans-1,3-Dichloropropene		ND	0.0424	0.05	PPBV	0.0500	U
PSMF-St4-VOC-111723	EPA Method TO-15	trans-1,3-Dichloropropene		ND	0.192	0.227	ug/m3	0.227	U
PSMF-St4-VOC-111723	EPA Method TO-15	Trichloroethene		ND	0.0424	0.049	PPBV	0.0490	U
PSMF-St4-VOC-111723	EPA Method TO-15	Trichloroethene		ND	0.228	0.263	ug/m3	0.263	U
PSMF-St4-VOC-111723	EPA Method TO-15	Vinyl acetate	0.0852		0.0424	0.0496	PPBV	0.0852	
PSMF-St4-VOC-111723	EPA Method TO-15	Vinyl acetate	0.3		0.149	0.174	ug/m3	0.300	
PSMF-St5-VOC-111623	EPA Method TO-15	1,1,1,2-Tetrachloroethane		ND	0.0405	0.0467	PPBV	0.0467	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,1,1,2-Tetrachloroethane		ND	0.278	0.32	ug/m3	0.320	U



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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St5-VOC-111623	EPA Method TO-15	1,1,1-Trichloroethane	ND		0.0405	0.0468	PPBV	0.0468	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,1,1-Trichloroethane	ND		0.221	0.255	ug/m3	0.255	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,1,2,2-Tetrachloroethane	ND		0.0405	0.0468	PPBV	0.0468	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,1,2,2-Tetrachloroethane	ND		0.278	0.321	ug/m3	0.321	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,1,2-Trichloroethane	ND		0.0405	0.0471	PPBV	0.0471	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,1,2-Trichloroethane	ND		0.221	0.257	ug/m3	0.257	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,1-Dichloroethane	ND		0.0405	0.046	PPBV	0.0460	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,1-Dichloroethane	ND		0.164	0.186	ug/m3	0.186	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,1-Dichloroethene	ND		0.0405	0.0466	PPBV	0.0466	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,1-Dichloroethene	ND		0.161	0.185	ug/m3	0.185	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,2,4-Trichlorobenzene	ND		0.0405	0.0461	PPBV	0.0461	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,2,4-Trichlorobenzene	ND		0.301	0.342	ug/m3	0.342	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,2,4-Trimethylbenzene	0.396		0.0405	0.0464	PPBV	0.396	
PSMF-St5-VOC-111623	EPA Method TO-15	1,2,4-Trimethylbenzene	1.94		0.199	0.228	ug/m3	1.94	
PSMF-St5-VOC-111623	EPA Method TO-15	1,2-Dibromoethane	ND		0.0405	0.0474	PPBV	0.0474	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,2-Dibromoethane	ND		0.311	0.364	ug/m3	0.364	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,2-Dichlorobenzene	ND		0.0405	0.0469	PPBV	0.0469	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,2-Dichlorobenzene	ND		0.244	0.282	ug/m3	0.282	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,2-Dichloroethane	ND		0.0405	0.0477	PPBV	0.0477	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,2-Dichloroethane	ND		0.164	0.193	ug/m3	0.193	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,2-Dichloropropane	ND		0.0405	0.0467	PPBV	0.0467	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,2-Dichloropropane	ND		0.187	0.215	ug/m3	0.215	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,3,5-Trimethylbenzene	0.136		0.0405	0.047	PPBV	0.136	
PSMF-St5-VOC-111623	EPA Method TO-15	1,3,5-Trimethylbenzene	0.669		0.199	0.231	ug/m3	0.669	
PSMF-St5-VOC-111623	EPA Method TO-15	1,3-Butadiene	1.43		0.0405	0.0451	PPBV	1.43	
PSMF-St5-VOC-111623	EPA Method TO-15	1,3-Butadiene	3.17		0.0896	0.0997	ug/m3	3.17	
PSMF-St5-VOC-111623	EPA Method TO-15	1,3-Dichlorobenzene	ND		0.0405	0.0471	PPBV	0.0471	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,3-Dichlorobenzene	ND		0.244	0.283	ug/m3	0.283	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,4-Dichlorobenzene	ND		0.0405	0.0466	PPBV	0.0466	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,4-Dichlorobenzene	ND		0.244	0.28	ug/m3	0.28	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,4-Dioxane	ND		0.0405	0.0465	PPBV	0.0465	U
PSMF-St5-VOC-111623	EPA Method TO-15	1,4-Dioxane	ND		0.146	0.167	ug/m3	0.167	U
PSMF-St5-VOC-111623	EPA Method TO-15	1-Bromopropane	ND		0.0405	0.046	PPBV	0.0460	U
PSMF-St5-VOC-111623	EPA Method TO-15	1-Bromopropane	ND		0.204	0.231	ug/m3	0.231	U

EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St5-VOC-111623	EPA Method TO-15	1-Octene	0.259		0.0405	0.0457	PPBV	0.259	
PSMF-St5-VOC-111623	EPA Method TO-15	1-Octene	1.19		0.186	0.21	ug/m3	1.19	
PSMF-St5-VOC-111623	EPA Method TO-15	2,2,4-trimethylpentane	0.547		0.0405	0.0479	PPBV	0.547	
PSMF-St5-VOC-111623	EPA Method TO-15	2,2,4-trimethylpentane	2.55		0.189	0.224	ug/m3	2.55	
PSMF-St5-VOC-111623	EPA Method TO-15	2-Chlorotoluene	ND		0.0405	0.0467	PPBV	0.0467	U
PSMF-St5-VOC-111623	EPA Method TO-15	2-Chlorotoluene	ND		0.21	0.242	ug/m3	0.242	U
PSMF-St5-VOC-111623	EPA Method TO-15	2-Hexanone (Methyl butyl ketone)	ND		0.0405	0.0474	PPBV	0.0474	U
PSMF-St5-VOC-111623	EPA Method TO-15	2-Hexanone (Methyl butyl ketone)	ND		0.166	0.194	ug/m3	0.194	U
PSMF-St5-VOC-111623	EPA Method TO-15	4-Ethyltoluene	0.135		0.0405	0.0471	PPBV	0.135	
PSMF-St5-VOC-111623	EPA Method TO-15	4-Ethyltoluene	0.662		0.199	0.231	ug/m3	0.662	
PSMF-St5-VOC-111623	EPA Method TO-15	Acetone	4.31		0.0405	0.0464	PPBV	4.31	
PSMF-St5-VOC-111623	EPA Method TO-15	Acetone	10.2		0.0962	0.11	ug/m3	10.2	
PSMF-St5-VOC-111623	EPA Method TO-15	Acetonitrile	1.18		0.0405	0.0462	PPBV	1.18	
PSMF-St5-VOC-111623	EPA Method TO-15	Acetonitrile	1.97		0.068	0.0775	ug/m3	1.97	
PSMF-St5-VOC-111623	EPA Method TO-15	Acrolein	0.829		0.0405	0.0456	PPBV	0.829	
PSMF-St5-VOC-111623	EPA Method TO-15	Acrolein	1.9		0.0929	0.105	ug/m3	1.90	
PSMF-St5-VOC-111623	EPA Method TO-15	Acrylonitrile	0.124		0.0405	0.0472	PPBV	0.124	
PSMF-St5-VOC-111623	EPA Method TO-15	Acrylonitrile	0.268		0.0879	0.102	ug/m3	0.268	
PSMF-St5-VOC-111623	EPA Method TO-15	Allyl chloride (3-chloropropene)	ND		0.0405	0.05	PPBV	0.0500	U
PSMF-St5-VOC-111623	EPA Method TO-15	Allyl chloride (3-chloropropene)	ND		0.127	0.157	ug/m3	0.157	U
PSMF-St5-VOC-111623	EPA Method TO-15	Benzene	3.43		0.0405	0.0466	PPBV	3.43	
PSMF-St5-VOC-111623	EPA Method TO-15	Benzene	10.9		0.129	0.149	ug/m3	10.9	
PSMF-St5-VOC-111623	EPA Method TO-15	Benzyl chloride	ND		0.0405	0.0466	PPBV	0.0466	U
PSMF-St5-VOC-111623	EPA Method TO-15	Benzyl chloride	ND		0.21	0.241	ug/m3	0.241	U
PSMF-St5-VOC-111623	EPA Method TO-15	Bromodichloromethane	ND		0.0405	0.0468	PPBV	0.0468	U
PSMF-St5-VOC-111623	EPA Method TO-15	Bromodichloromethane	ND		0.271	0.313	ug/m3	0.313	U
PSMF-St5-VOC-111623	EPA Method TO-15	Bromoethene (Vinyl bromide)	ND		0.0405	0.0453	PPBV	0.0453	U
PSMF-St5-VOC-111623	EPA Method TO-15	Bromoethene (Vinyl bromide)	ND		0.177	0.198	ug/m3	0.198	U
PSMF-St5-VOC-111623	EPA Method TO-15	Bromoform	ND		0.0405	0.0465	PPBV	0.0465	U
PSMF-St5-VOC-111623	EPA Method TO-15	Bromoform	ND		0.419	0.48	ug/m3	0.480	U
PSMF-St5-VOC-111623	EPA Method TO-15	Bromomethane	ND		0.0405	0.0455	PPBV	0.0455	U
PSMF-St5-VOC-111623	EPA Method TO-15	Bromomethane	ND		0.157	0.176	ug/m3	0.176	U
PSMF-St5-VOC-111623	EPA Method TO-15	Carbon disulfide	ND		0.0405	0.0462	PPBV	0.0462	U
PSMF-St5-VOC-111623	EPA Method TO-15	Carbon disulfide	ND		0.126	0.144	ug/m3	0.144	U

EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St5-VOC-111623	EPA Method TO-15	Carbon tetrachloride	0.0707		0.0405	0.0467	PPBV	0.0707	
PSMF-St5-VOC-111623	EPA Method TO-15	Carbon tetrachloride	0.445		0.255	0.293	ug/m3	0.445	
PSMF-St5-VOC-111623	EPA Method TO-15	Chlorobenzene		ND	0.0405	0.0477	PPBV	0.0477	U
PSMF-St5-VOC-111623	EPA Method TO-15	Chlorobenzene		ND	0.187	0.22	ug/m3	0.220	U
PSMF-St5-VOC-111623	EPA Method TO-15	Chloroethane		ND	0.0405	0.0471	PPBV	0.0471	U
PSMF-St5-VOC-111623	EPA Method TO-15	Chloroethane		ND	0.107	0.124	ug/m3	0.124	U
PSMF-St5-VOC-111623	EPA Method TO-15	Chloroethene (Vinyl chloride)		ND	0.0405	0.0463	PPBV	0.0463	U
PSMF-St5-VOC-111623	EPA Method TO-15	Chloroethene (Vinyl chloride)		ND	0.104	0.118	ug/m3	0.118	U
PSMF-St5-VOC-111623	EPA Method TO-15	Chloroform		ND	0.0405	0.0465	PPBV	0.0465	U
PSMF-St5-VOC-111623	EPA Method TO-15	Chloroform		ND	0.198	0.227	ug/m3	0.227	U
PSMF-St5-VOC-111623	EPA Method TO-15	Chloromethane	1.14		0.0405	0.0458	PPBV	1.14	
PSMF-St5-VOC-111623	EPA Method TO-15	Chloromethane	2.35		0.0837	0.0946	ug/m3	2.35	
PSMF-St5-VOC-111623	EPA Method TO-15	cis-1,2-Dichloroethene		ND	0.0405	0.0468	PPBV	0.0468	U
PSMF-St5-VOC-111623	EPA Method TO-15	cis-1,2-Dichloroethene		ND	0.161	0.185	ug/m3	0.185	U
PSMF-St5-VOC-111623	EPA Method TO-15	cis-1,3-Dichloropropene		ND	0.0405	0.046	PPBV	0.0460	U
PSMF-St5-VOC-111623	EPA Method TO-15	cis-1,3-Dichloropropene		ND	0.184	0.209	ug/m3	0.209	U
PSMF-St5-VOC-111623	EPA Method TO-15	Cyclohexane	0.695		0.0405	0.0475	PPBV	0.695	
PSMF-St5-VOC-111623	EPA Method TO-15	Cyclohexane	2.39		0.139	0.163	ug/m3	2.39	
PSMF-St5-VOC-111623	EPA Method TO-15	Dibromochloromethane		ND	0.0405	0.0467	PPBV	0.0467	U
PSMF-St5-VOC-111623	EPA Method TO-15	Dibromochloromethane		ND	0.345	0.398	ug/m3	0.398	U
PSMF-St5-VOC-111623	EPA Method TO-15	Ethanol	6.64		0.0459	0.0459	PPBV	6.64	
PSMF-St5-VOC-111623	EPA Method TO-15	Ethanol	12.5		0.0865	0.0865	ug/m3	12.5	
PSMF-St5-VOC-111623	EPA Method TO-15	Ethyl acetate	0.124		0.0405	0.0462	PPBV	0.124	
PSMF-St5-VOC-111623	EPA Method TO-15	Ethyl acetate	0.445		0.146	0.167	ug/m3	0.445	
PSMF-St5-VOC-111623	EPA Method TO-15	Ethylbenzene	1.46		0.0405	0.046	PPBV	1.46	
PSMF-St5-VOC-111623	EPA Method TO-15	Ethylbenzene	6.35		0.176	0.2	ug/m3	6.35	
PSMF-St5-VOC-111623	EPA Method TO-15	Freon 11 (CCl3F)	0.233		0.0405	0.0489	PPBV	0.233	
PSMF-St5-VOC-111623	EPA Method TO-15	Freon 11 (CCl3F)	1.31		0.228	0.274	ug/m3	1.31	
PSMF-St5-VOC-111623	EPA Method TO-15	Freon 113 (C2Cl3F3)	0.0581		0.0405	0.047	PPBV	0.0581	
PSMF-St5-VOC-111623	EPA Method TO-15	Freon 113 (C2Cl3F3)	0.445		0.311	0.36	ug/m3	0.445	
PSMF-St5-VOC-111623	EPA Method TO-15	Freon 114 (C2Cl2F4)		ND	0.0405	0.0464	PPBV	0.0464	U
PSMF-St5-VOC-111623	EPA Method TO-15	Freon 114 (C2Cl2F4)		ND	0.283	0.324	ug/m3	0.324	U
PSMF-St5-VOC-111623	EPA Method TO-15	Freon 12 (CCl2F2)	0.457		0.0405	0.0454	PPBV	0.457	
PSMF-St5-VOC-111623	EPA Method TO-15	Freon 12 (CCl2F2)	2.26		0.2	0.224	ug/m3	2.26	

EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St5-VOC-111623	EPA Method TO-15	Heptane	0.533		0.0405	0.0469	PPBV	0.533	
PSMF-St5-VOC-111623	EPA Method TO-15	Heptane	2.18		0.166	0.192	ug/m3	2.18	
PSMF-St5-VOC-111623	EPA Method TO-15	Hexachlorobutadiene		ND	0.0405	0.0458	PPBV	0.0458	U
PSMF-St5-VOC-111623	EPA Method TO-15	Hexachlorobutadiene		ND	0.432	0.488	ug/m3	0.488	U
PSMF-St5-VOC-111623	EPA Method TO-15	Hexane	1.22		0.0405	0.0471	PPBV	1.22	
PSMF-St5-VOC-111623	EPA Method TO-15	Hexane	4.29		0.143	0.166	ug/m3	4.29	
PSMF-St5-VOC-111623	EPA Method TO-15	Isopropyl alcohol	0.673		0.0405	0.0462	PPBV	0.673	
PSMF-St5-VOC-111623	EPA Method TO-15	Isopropyl alcohol	1.65		0.0996	0.113	ug/m3	1.65	
PSMF-St5-VOC-111623	EPA Method TO-15	Isopropylbenzene	0.179		0.0405	0.0471	PPBV	0.179	
PSMF-St5-VOC-111623	EPA Method TO-15	Isopropylbenzene	0.878		0.199	0.231	ug/m3	0.878	
PSMF-St5-VOC-111623	EPA Method TO-15	m-/p-Xylenes	1.34		0.0405	0.047	PPBV	1.34	
PSMF-St5-VOC-111623	EPA Method TO-15	m-/p-Xylenes	5.8		0.176	0.204	ug/m3	5.8	
PSMF-St5-VOC-111623	EPA Method TO-15	Methyl ethyl ketone (2-Butanone)	0.547		0.0405	0.0479	PPBV	0.547	
PSMF-St5-VOC-111623	EPA Method TO-15	Methyl ethyl ketone (2-Butanone)	1.61		0.119	0.141	ug/m3	1.61	
PSMF-St5-VOC-111623	EPA Method TO-15	Methyl isobutyl ketone	0.0737		0.0405	0.0481	PPBV	0.0737	
PSMF-St5-VOC-111623	EPA Method TO-15	Methyl isobutyl ketone	0.302		0.166	0.197	ug/m3	0.302	
PSMF-St5-VOC-111623	EPA Method TO-15	Methyl methacrylate		ND	0.0405	0.0485	PPBV	0.0485	U
PSMF-St5-VOC-111623	EPA Method TO-15	Methyl methacrylate		ND	0.166	0.199	ug/m3	0.199	U
PSMF-St5-VOC-111623	EPA Method TO-15	Methyl tert-butyl ether		ND	0.0405	0.0476	PPBV	0.0476	U
PSMF-St5-VOC-111623	EPA Method TO-15	Methyl tert-butyl ether		ND	0.146	0.172	ug/m3	0.172	U
PSMF-St5-VOC-111623	EPA Method TO-15	Methylene chloride	0.133		0.0405	0.0474	PPBV	0.133	
PSMF-St5-VOC-111623	EPA Method TO-15	Methylene chloride	0.46		0.141	0.165	ug/m3	0.460	
PSMF-St5-VOC-111623	EPA Method TO-15	Naphthalene	0.146		0.0405	0.0467	PPBV	0.146	
PSMF-St5-VOC-111623	EPA Method TO-15	Naphthalene	0.765		0.212	0.244	ug/m3	0.765	
PSMF-St5-VOC-111623	EPA Method TO-15	n-Octane	0.203		0.0405	0.0477	PPBV	0.203	
PSMF-St5-VOC-111623	EPA Method TO-15	n-Octane	0.948		0.189	0.223	ug/m3	0.948	
PSMF-St5-VOC-111623	EPA Method TO-15	n-Propylbenzene	0.108		0.0405	0.0475	PPBV	0.108	
PSMF-St5-VOC-111623	EPA Method TO-15	n-Propylbenzene	0.531		0.199	0.234	ug/m3	0.531	
PSMF-St5-VOC-111623	EPA Method TO-15	o-Xylene	0.459		0.0405	0.0464	PPBV	0.459	
PSMF-St5-VOC-111623	EPA Method TO-15	o-Xylene	1.99		0.176	0.201	ug/m3	1.99	
PSMF-St5-VOC-111623	EPA Method TO-15	Propylene	7.95		0.0405	0.0448	PPBV	7.95	
PSMF-St5-VOC-111623	EPA Method TO-15	Propylene	13.7		0.0697	0.077	ug/m3	13.7	
PSMF-St5-VOC-111623	EPA Method TO-15	Styrene	4.81		0.0405	0.0454	PPBV	4.81	
PSMF-St5-VOC-111623	EPA Method TO-15	Styrene	20.5		0.173	0.193	ug/m3	20.5	

EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
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Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St5-VOC-111623	EPA Method TO-15	Tetrachloroethene	ND		0.0405	0.0474	PPBV	0.0474	U
PSMF-St5-VOC-111623	EPA Method TO-15	Tetrachloroethene	ND		0.275	0.321	ug/m3	0.321	U
PSMF-St5-VOC-111623	EPA Method TO-15	Tetrahydrofuran	0.135		0.0405	0.0469	PPBV	0.135	
PSMF-St5-VOC-111623	EPA Method TO-15	Tetrahydrofuran	0.397		0.119	0.138	ug/m3	0.397	
PSMF-St5-VOC-111623	EPA Method TO-15	Toluene	3.26		0.0405	0.0472	PPBV	3.26	
PSMF-St5-VOC-111623	EPA Method TO-15	Toluene	12.3		0.153	0.178	ug/m3	12.3	
PSMF-St5-VOC-111623	EPA Method TO-15	trans-1,2-Dichloroethene	ND		0.0405	0.0473	PPBV	0.0473	U
PSMF-St5-VOC-111623	EPA Method TO-15	trans-1,2-Dichloroethene	ND		0.161	0.187	ug/m3	0.187	U
PSMF-St5-VOC-111623	EPA Method TO-15	trans-1,3-Dichloropropene	ND		0.0405	0.0478	PPBV	0.0478	U
PSMF-St5-VOC-111623	EPA Method TO-15	trans-1,3-Dichloropropene	ND		0.184	0.217	ug/m3	0.217	U
PSMF-St5-VOC-111623	EPA Method TO-15	Trichloroethene	ND		0.0405	0.0468	PPBV	0.0468	U
PSMF-St5-VOC-111623	EPA Method TO-15	Trichloroethene	ND		0.218	0.252	ug/m3	0.252	U
PSMF-St5-VOC-111623	EPA Method TO-15	Vinyl acetate	ND		0.0405	0.0474	PPBV	0.0474	U
PSMF-St5-VOC-111623	EPA Method TO-15	Vinyl acetate	ND		0.143	0.167	ug/m3	0.167	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,1,1,2-Tetrachloroethane	ND		0.0415	0.0478	PPBV	0.0478	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,1,1,2-Tetrachloroethane	ND		0.285	0.328	ug/m3	0.328	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,1,1-Trichloroethane	ND		0.0415	0.0479	PPBV	0.0479	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,1,1-Trichloroethane	ND		0.226	0.261	ug/m3	0.261	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,1,2,2-Tetrachloroethane	ND		0.0415	0.0480	PPBV	0.0480	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,1,2,2-Tetrachloroethane	ND		0.285	0.329	ug/m3	0.329	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,1,2-Trichloroethane	ND		0.0415	0.0482	PPBV	0.0482	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,1,2-Trichloroethane	ND		0.226	0.263	ug/m3	0.263	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,1-Dichloroethane	ND		0.0415	0.0471	PPBV	0.0471	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,1-Dichloroethane	ND		0.168	0.191	ug/m3	0.191	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,1-Dichloroethene	ND		0.0415	0.0477	PPBV	0.0477	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,1-Dichloroethene	ND		0.164	0.189	ug/m3	0.189	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,2,4-Trichlorobenzene	ND		0.0415	0.0472	PPBV	0.0472	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,2,4-Trichlorobenzene	ND		0.308	0.35	ug/m3	0.350	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,2,4-Trimethylbenzene	0.155		0.0415	0.0475	PPBV	0.155	
PSMF-St5-VOC-111723	EPA Method TO-15	1,2,4-Trimethylbenzene	0.763		0.204	0.233	ug/m3	0.763	
PSMF-St5-VOC-111723	EPA Method TO-15	1,2-Dibromoethane	ND		0.0415	0.0485	PPBV	0.0485	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,2-Dibromoethane	ND		0.319	0.373	ug/m3	0.373	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,2-Dichlorobenzene	ND		0.0415	0.0481	PPBV	0.0481	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,2-Dichlorobenzene	ND		0.249	0.289	ug/m3	0.289	U

EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
ENTHALPY ANALYTICAL REPORT NO. 1123-014

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St5-VOC-111723	EPA Method TO-15	1,2-Dichloroethane	ND		0.0415	0.0488	PPBV	0.0488	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,2-Dichloroethane	ND		0.168	0.197	ug/m3	0.197	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,2-Dichloropropane	ND		0.0415	0.0478	PPBV	0.0478	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,2-Dichloropropane	ND		0.192	0.221	ug/m3	0.221	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,3,5-Trimethylbenzene	0.0445	J	0.0415	0.0481	PPBV	0.0445	J
PSMF-St5-VOC-111723	EPA Method TO-15	1,3,5-Trimethylbenzene	0.219	J	0.204	0.236	ug/m3	0.219	J
PSMF-St5-VOC-111723	EPA Method TO-15	1,3-Butadiene	0.165		0.0415	0.0462	PPBV	0.165	
PSMF-St5-VOC-111723	EPA Method TO-15	1,3-Butadiene	0.365		0.0918	0.102	ug/m3	0.365	
PSMF-St5-VOC-111723	EPA Method TO-15	1,3-Dichlorobenzene	ND		0.0415	0.0482	PPBV	0.0482	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,3-Dichlorobenzene	ND		0.249	0.29	ug/m3	0.290	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,4-Dichlorobenzene	ND		0.0415	0.0477	PPBV	0.0477	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,4-Dichlorobenzene	ND		0.249	0.286	ug/m3	0.286	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,4-Dioxane	ND		0.0415	0.0476	PPBV	0.0476	U
PSMF-St5-VOC-111723	EPA Method TO-15	1,4-Dioxane	ND		0.149	0.171	ug/m3	0.171	U
PSMF-St5-VOC-111723	EPA Method TO-15	1-Bromopropane	ND		0.0415	0.0471	PPBV	0.0471	U
PSMF-St5-VOC-111723	EPA Method TO-15	1-Bromopropane	ND		0.209	0.237	ug/m3	0.237	U
PSMF-St5-VOC-111723	EPA Method TO-15	1-Octene	ND		0.0415	0.0468	PPBV	0.0468	U
PSMF-St5-VOC-111723	EPA Method TO-15	1-Octene	ND		0.19	0.215	ug/m3	0.215	U
PSMF-St5-VOC-111723	EPA Method TO-15	2,2,4-trimethylpentane	0.393		0.0415	0.049	PPBV	0.393	
PSMF-St5-VOC-111723	EPA Method TO-15	2,2,4-trimethylpentane	1.83		0.194	0.229	ug/m3	1.83	
PSMF-St5-VOC-111723	EPA Method TO-15	2-Chlorotoluene	ND		0.0415	0.0479	PPBV	0.0479	U
PSMF-St5-VOC-111723	EPA Method TO-15	2-Chlorotoluene	ND		0.215	0.248	ug/m3	0.248	U
PSMF-St5-VOC-111723	EPA Method TO-15	2-Hexanone (Methyl butyl ketone)	ND		0.0415	0.0485	PPBV	0.0485	U
PSMF-St5-VOC-111723	EPA Method TO-15	2-Hexanone (Methyl butyl ketone)	ND		0.17	0.199	ug/m3	0.199	U
PSMF-St5-VOC-111723	EPA Method TO-15	4-Ethyltoluene	0.0471	J	0.0415	0.0482	PPBV	0.0471	J
PSMF-St5-VOC-111723	EPA Method TO-15	4-Ethyltoluene	0.231	J	0.204	0.237	ug/m3	0.231	J
PSMF-St5-VOC-111723	EPA Method TO-15	Acetone	5.15		0.0415	0.0475	PPBV	5.15	
PSMF-St5-VOC-111723	EPA Method TO-15	Acetone	12.2		0.0985	0.113	ug/m3	12.2	
PSMF-St5-VOC-111723	EPA Method TO-15	Acetonitrile	0.202		0.0415	0.0473	PPBV	0.202	
PSMF-St5-VOC-111723	EPA Method TO-15	Acetonitrile	0.338		0.0696	0.0794	ug/m3	0.338	
PSMF-St5-VOC-111723	EPA Method TO-15	Acrolein	0.15		0.0415	0.0467	PPBV	0.150	
PSMF-St5-VOC-111723	EPA Method TO-15	Acrolein	0.343		0.0951	0.107	ug/m3	0.343	
PSMF-St5-VOC-111723	EPA Method TO-15	Acrylonitrile	ND		0.0415	0.0483	PPBV	0.0483	U
PSMF-St5-VOC-111723	EPA Method TO-15	Acrylonitrile	ND		0.09	0.105	ug/m3	0.105	U



EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
ENTHALPY ANALYTICAL REPORT NO. 1123-014

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St5-VOC-111723	EPA Method TO-15	Allyl chloride (3-chloropropene)	ND		0.0415	0.0512	PPBV	0.0512	U
PSMF-St5-VOC-111723	EPA Method TO-15	Allyl chloride (3-chloropropene)	ND		0.13	0.16	ug/m3	0.160	U
PSMF-St5-VOC-111723	EPA Method TO-15	Benzene	0.648		0.0415	0.0477	PPBV	0.648	
PSMF-St5-VOC-111723	EPA Method TO-15	Benzene	2.07		0.133	0.152	ug/m3	2.07	
PSMF-St5-VOC-111723	EPA Method TO-15	Benzyl chloride	ND		0.0415	0.0477	PPBV	0.0477	U
PSMF-St5-VOC-111723	EPA Method TO-15	Benzyl chloride	ND		0.215	0.247	ug/m3	0.247	U
PSMF-St5-VOC-111723	EPA Method TO-15	Bromodichloromethane	ND		0.0415	0.0479	PPBV	0.0479	U
PSMF-St5-VOC-111723	EPA Method TO-15	Bromodichloromethane	ND		0.278	0.321	ug/m3	0.321	U
PSMF-St5-VOC-111723	EPA Method TO-15	Bromoethene (Vinyl bromide)	ND		0.0415	0.0464	PPBV	0.0464	U
PSMF-St5-VOC-111723	EPA Method TO-15	Bromoethene (Vinyl bromide)	ND		0.181	0.203	ug/m3	0.203	U
PSMF-St5-VOC-111723	EPA Method TO-15	Bromoform	ND		0.0415	0.0476	PPBV	0.0476	U
PSMF-St5-VOC-111723	EPA Method TO-15	Bromoform	ND		0.429	0.491	ug/m3	0.491	U
PSMF-St5-VOC-111723	EPA Method TO-15	Bromomethane	ND		0.0415	0.0465	PPBV	0.0465	U
PSMF-St5-VOC-111723	EPA Method TO-15	Bromomethane	ND		0.161	0.181	ug/m3	0.181	U
PSMF-St5-VOC-111723	EPA Method TO-15	Carbon disulfide	ND		0.0415	0.0473	PPBV	0.0473	U
PSMF-St5-VOC-111723	EPA Method TO-15	Carbon disulfide	ND		0.129	0.147	ug/m3	0.147	U
PSMF-St5-VOC-111723	EPA Method TO-15	Carbon tetrachloride	0.0697		0.0415	0.0478	PPBV	0.0697	
PSMF-St5-VOC-111723	EPA Method TO-15	Carbon tetrachloride	0.438		0.261	0.3	ug/m3	0.438	
PSMF-St5-VOC-111723	EPA Method TO-15	Chlorobenzene	ND		0.0415	0.0489	PPBV	0.0489	U
PSMF-St5-VOC-111723	EPA Method TO-15	Chlorobenzene	ND		0.191	0.225	ug/m3	0.225	U
PSMF-St5-VOC-111723	EPA Method TO-15	Chloroethane	ND		0.0415	0.0482	PPBV	0.0482	U
PSMF-St5-VOC-111723	EPA Method TO-15	Chloroethane	ND		0.109	0.127	ug/m3	0.127	U
PSMF-St5-VOC-111723	EPA Method TO-15	Chloroethene (Vinyl chloride)	ND		0.0415	0.0474	PPBV	0.0474	U
PSMF-St5-VOC-111723	EPA Method TO-15	Chloroethene (Vinyl chloride)	ND		0.106	0.121	ug/m3	0.121	U
PSMF-St5-VOC-111723	EPA Method TO-15	Chloroform	ND		0.0415	0.0476	PPBV	0.0476	U
PSMF-St5-VOC-111723	EPA Method TO-15	Chloroform	ND		0.203	0.232	ug/m3	0.232	U
PSMF-St5-VOC-111723	EPA Method TO-15	Chloromethane	0.565		0.0415	0.0469	PPBV	0.565	
PSMF-St5-VOC-111723	EPA Method TO-15	Chloromethane	1.17		0.0857	0.0968	ug/m3	1.17	
PSMF-St5-VOC-111723	EPA Method TO-15	cis-1,2-Dichloroethene	ND		0.0415	0.0479	PPBV	0.0479	U
PSMF-St5-VOC-111723	EPA Method TO-15	cis-1,2-Dichloroethene	ND		0.164	0.19	ug/m3	0.190	U
PSMF-St5-VOC-111723	EPA Method TO-15	cis-1,3-Dichloropropene	ND		0.0415	0.0471	PPBV	0.0471	U
PSMF-St5-VOC-111723	EPA Method TO-15	cis-1,3-Dichloropropene	ND		0.188	0.214	ug/m3	0.214	U
PSMF-St5-VOC-111723	EPA Method TO-15	Cyclohexane	0.341		0.0415	0.0486	PPBV	0.341	
PSMF-St5-VOC-111723	EPA Method TO-15	Cyclohexane	1.17		0.143	0.167	ug/m3	1.17	

EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
ENTHALPY ANALYTICAL REPORT NO. 1123-014

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St5-VOC-111723	EPA Method TO-15	Dibromochloromethane	ND		0.0415	0.0478	PPBV	0.0478	U
PSMF-St5-VOC-111723	EPA Method TO-15	Dibromochloromethane	ND		0.353	0.407	ug/m3	0.407	U
PSMF-St5-VOC-111723	EPA Method TO-15	Ethanol	4.42		0.047	0.047	PPBV	4.42	
PSMF-St5-VOC-111723	EPA Method TO-15	Ethanol	8.33		0.0885	0.0885	ug/m3	8.33	
PSMF-St5-VOC-111723	EPA Method TO-15	Ethyl acetate	0.187		0.0415	0.0473	PPBV	0.187	
PSMF-St5-VOC-111723	EPA Method TO-15	Ethyl acetate	0.675		0.149	0.17	ug/m3	0.675	
PSMF-St5-VOC-111723	EPA Method TO-15	Ethylbenzene	0.309		0.0415	0.0471	PPBV	0.309	
PSMF-St5-VOC-111723	EPA Method TO-15	Ethylbenzene	1.34		0.18	0.204	ug/m3	1.34	
PSMF-St5-VOC-111723	EPA Method TO-15	Freon 11 (CCl3F)	0.223		0.0415	0.05	PPBV	0.223	
PSMF-St5-VOC-111723	EPA Method TO-15	Freon 11 (CCl3F)	1.25		0.233	0.281	ug/m3	1.25	
PSMF-St5-VOC-111723	EPA Method TO-15	Freon 113 (C2Cl3F3)	0.0606		0.0415	0.0481	PPBV	0.0606	
PSMF-St5-VOC-111723	EPA Method TO-15	Freon 113 (C2Cl3F3)	0.464		0.318	0.369	ug/m3	0.464	
PSMF-St5-VOC-111723	EPA Method TO-15	Freon 114 (C2Cl2F4)	ND		0.0415	0.0475	PPBV	0.0475	U
PSMF-St5-VOC-111723	EPA Method TO-15	Freon 114 (C2Cl2F4)	ND		0.29	0.332	ug/m3	0.332	U
PSMF-St5-VOC-111723	EPA Method TO-15	Freon 12 (CCl2F2)	0.465		0.0415	0.0464	PPBV	0.465	
PSMF-St5-VOC-111723	EPA Method TO-15	Freon 12 (CCl2F2)	2.3		0.205	0.23	ug/m3	2.30	
PSMF-St5-VOC-111723	EPA Method TO-15	Heptane	0.312		0.0415	0.0481	PPBV	0.312	
PSMF-St5-VOC-111723	EPA Method TO-15	Heptane	1.28		0.17	0.197	ug/m3	1.28	
PSMF-St5-VOC-111723	EPA Method TO-15	Hexachlorobutadiene	ND		0.0415	0.0469	PPBV	0.0469	U
PSMF-St5-VOC-111723	EPA Method TO-15	Hexachlorobutadiene	ND		0.442	0.5	ug/m3	0.500	U
PSMF-St5-VOC-111723	EPA Method TO-15	Hexane	0.638		0.0415	0.0482	PPBV	0.638	
PSMF-St5-VOC-111723	EPA Method TO-15	Hexane	2.25		0.146	0.17	ug/m3	2.25	
PSMF-St5-VOC-111723	EPA Method TO-15	Isopropyl alcohol	1.29		0.0415	0.0473	PPBV	1.29	
PSMF-St5-VOC-111723	EPA Method TO-15	Isopropyl alcohol	3.16		0.102	0.116	ug/m3	3.16	
PSMF-St5-VOC-111723	EPA Method TO-15	Isopropylbenzene	0.0693		0.0415	0.0482	PPBV	0.0693	
PSMF-St5-VOC-111723	EPA Method TO-15	Isopropylbenzene	0.34		0.204	0.237	ug/m3	0.340	
PSMF-St5-VOC-111723	EPA Method TO-15	m-/p-Xylenes	0.588		0.0415	0.0481	PPBV	0.588	
PSMF-St5-VOC-111723	EPA Method TO-15	m-/p-Xylenes	2.55		0.18	0.209	ug/m3	2.55	
PSMF-St5-VOC-111723	EPA Method TO-15	Methyl ethyl ketone (2-Butanone)	0.294		0.0415	0.049	PPBV	0.294	
PSMF-St5-VOC-111723	EPA Method TO-15	Methyl ethyl ketone (2-Butanone)	0.866		0.122	0.145	ug/m3	0.866	
PSMF-St5-VOC-111723	EPA Method TO-15	Methyl isobutyl ketone	0.0528		0.0415	0.0493	PPBV	0.0528	
PSMF-St5-VOC-111723	EPA Method TO-15	Methyl isobutyl ketone	0.216		0.17	0.202	ug/m3	0.216	
PSMF-St5-VOC-111723	EPA Method TO-15	Methyl methacrylate	ND		0.0415	0.0497	PPBV	0.0497	U
PSMF-St5-VOC-111723	EPA Method TO-15	Methyl methacrylate	ND		0.17	0.203	ug/m3	0.203	U

EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
ENTHALPY ANALYTICAL REPORT NO. 1123-014

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St5-VOC-111723	EPA Method TO-15	Methyl tert-butyl ether		ND	0.0415	0.0488	PPBV	0.0488	U
PSMF-St5-VOC-111723	EPA Method TO-15	Methyl tert-butyl ether		ND	0.15	0.176	ug/m3	0.176	U
PSMF-St5-VOC-111723	EPA Method TO-15	Methylene chloride	0.133		0.0415	0.0486	PPBV	0.133	
PSMF-St5-VOC-111723	EPA Method TO-15	Methylene chloride	0.463		0.144	0.169	ug/m3	0.463	
PSMF-St5-VOC-111723	EPA Method TO-15	Naphthalene		ND	0.0415	0.0478	PPBV	0.0478	U
PSMF-St5-VOC-111723	EPA Method TO-15	Naphthalene		ND	0.217	0.25	ug/m3	0.250	U
PSMF-St5-VOC-111723	EPA Method TO-15	n-Octane	0.124		0.0415	0.0489	PPBV	0.124	
PSMF-St5-VOC-111723	EPA Method TO-15	n-Octane	0.579		0.194	0.228	ug/m3	0.579	
PSMF-St5-VOC-111723	EPA Method TO-15	n-Propylbenzene		ND	0.0415	0.0487	PPBV	0.0487	U
PSMF-St5-VOC-111723	EPA Method TO-15	n-Propylbenzene		ND	0.204	0.239	ug/m3	0.239	U
PSMF-St5-VOC-111723	EPA Method TO-15	o-Xylene	0.208		0.0415	0.0475	PPBV	0.208	
PSMF-St5-VOC-111723	EPA Method TO-15	o-Xylene	0.903		0.18	0.206	ug/m3	0.903	
PSMF-St5-VOC-111723	EPA Method TO-15	Propylene	2.18		0.0415	0.0458	PPBV	2.18	
PSMF-St5-VOC-111723	EPA Method TO-15	Propylene	3.75		0.0714	0.0788	ug/m3	3.75	
PSMF-St5-VOC-111723	EPA Method TO-15	Styrene	0.365		0.0415	0.0465	PPBV	0.365	
PSMF-St5-VOC-111723	EPA Method TO-15	Styrene	1.55		0.177	0.198	ug/m3	1.55	
PSMF-St5-VOC-111723	EPA Method TO-15	Tetrachloroethene		ND	0.0415	0.0485	PPBV	0.0485	U
PSMF-St5-VOC-111723	EPA Method TO-15	Tetrachloroethene		ND	0.281	0.329	ug/m3	0.329	U
PSMF-St5-VOC-111723	EPA Method TO-15	Tetrahydrofuran	0.0651		0.0415	0.048	PPBV	0.0651	
PSMF-St5-VOC-111723	EPA Method TO-15	Tetrahydrofuran	0.192		0.122	0.141	ug/m3	0.192	
PSMF-St5-VOC-111723	EPA Method TO-15	Toluene	1.4		0.0415	0.0483	PPBV	1.40	
PSMF-St5-VOC-111723	EPA Method TO-15	Toluene	5.27		0.156	0.182	ug/m3	5.27	
PSMF-St5-VOC-111723	EPA Method TO-15	trans-1,2-Dichloroethene		ND	0.0415	0.0484	PPBV	0.0484	U
PSMF-St5-VOC-111723	EPA Method TO-15	trans-1,2-Dichloroethene		ND	0.164	0.192	ug/m3	0.192	U
PSMF-St5-VOC-111723	EPA Method TO-15	trans-1,3-Dichloropropene		ND	0.0415	0.049	PPBV	0.0490	U
PSMF-St5-VOC-111723	EPA Method TO-15	trans-1,3-Dichloropropene		ND	0.188	0.222	ug/m3	0.222	U
PSMF-St5-VOC-111723	EPA Method TO-15	Trichloroethene		ND	0.0415	0.0480	PPBV	0.0480	U
PSMF-St5-VOC-111723	EPA Method TO-15	Trichloroethene		ND	0.223	0.258	ug/m3	0.258	U
PSMF-St5-VOC-111723	EPA Method TO-15	Vinyl acetate	0.0678		0.0415	0.0485	PPBV	0.0678	
PSMF-St5-VOC-111723	EPA Method TO-15	Vinyl acetate	0.239		0.146	0.171	ug/m3	0.239	

## DATA VALIDATION CHECKLIST – STAGE 2A EPA REGION 4 START CONTRACT

<b>Site Name</b>	East Parker Street Textile Mill Fire	<b>TO/TOLIN No.</b>	82-073
<b>Data Reviewer (name and date)</b>	Kierra Johnson 2/12/2024	<b>Technical Reviewer (name and date)</b>	Josh Cope 2/15/2024
<b>Laboratory Report No.</b>	1123-014B	<b>Laboratory</b>	Enthalpy Analytical, LLC / Durham, NC
<b>Analyses</b>	TAL Metals by NIOSH Method 7303		
<b>Samples and Matrix</b>	Five air samples		
<b>Collection Date(s)</b>	November 17, 2023		
<b>Field Duplicate Pairs</b>	None		
<b>Field QC Blanks</b>	None		

### INTRODUCTION

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan (QAPP)*, *Superfund Technical Assessment and Response Team (START V)*, *EPA Region 4, Revision 3* (October 2023), and the EPA *NFGs for Inorganic Superfund Methods Data Review* (November 2020).

### OVERALL EVALUATION

No qualification or rejection of data was required for this data package. The results may be used as received from the laboratory.

#### Data completeness:

Within Criteria	Exceedance/Notes
Y	<p>The chain-of-custody listed nine air samples for asbestos analysis, which were not included in this laboratory report. Region 4 asbestos data does not require validation.</p> <p>The laboratory EDD was not prepared in typical EDD format; therefore, the sample results were manually manipulated to construct the results summary table. Each lab result and lab qualifier in the results summary table was cross checked against the laboratory report to correct errors that may have been introduced because of manual manipulation of data required to construct the summary table.</p>

**DATA VALIDATION CHECKLIST – STAGE 2A  
EPA REGION 4 START CONTRACT**

**Sample preservation, receipt, and holding times:**

Within Criteria	Exceedance/Notes
Y	

**Method blanks:**

Within Criteria	Exceedance/Notes
Y	

**Field QC blanks:**

Within Criteria	Exceedance/Notes
NA	

**Surrogates and labeled compounds:**

Within Criteria	Exceedance/Notes
NA	

**MS/MSDs:**

Within Criteria	Exceedance/Notes
Y	

**Laboratory duplicates:**

Within Criteria	Exceedance/Notes
Y	

## DATA VALIDATION CHECKLIST – STAGE 2A EPA REGION 4 START CONTRACT

### Field duplicates:

Within Criteria	Exceedance/Notes
N	Per the region-specific QAPP, 1 field duplicate sample is required per 20 samples collected. However, a field duplicate was not collected with this sample group. Based on professional judgement, no qualifications were applied.

### LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	

### Sample dilutions:

Within Criteria	Exceedance/Notes
NA	

### Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

### MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	Analytes detected at concentrations above MDLs but below RLs were qualified as estimated (flagged J) by the laboratory. Nondetect results are reported by the laboratory at the MDL and qualified as nondetects (flagged ND). The validated nondetect results in the results summary table attached are reported at the RL and qualified as nondetect (flagged U).

## DATA VALIDATION CHECKLIST – STAGE 2A EPA REGION 4 START CONTRACT

### Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

### Other [specify]:

Within Criteria	Exceedance/Notes
NA	

### Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.



EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
ENTHALPY ANALYTICAL REPORT NO. 1123-014B

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St1-M-111723	NIOSH Method 7303	Aluminum	0.298	J	0.177	0.926	µg/m <sup>3</sup>	0.298	J
PSMF-St1-M-111723	NIOSH Method 7303	Antimony	0.0620	ND	0.0620	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St1-M-111723	NIOSH Method 7303	Arsenic	0.0398	ND	0.0398	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St1-M-111723	NIOSH Method 7303	Barium	0.0393		0.00370	0.0370	µg/m <sup>3</sup>	0.0393	
PSMF-St1-M-111723	NIOSH Method 7303	Beryllium	0.00185	ND	0.00185	0.0185	µg/m <sup>3</sup>	0.0185	U
PSMF-St1-M-111723	NIOSH Method 7303	Cadmium	0.00350	J	0.00315	0.0185	µg/m <sup>3</sup>	0.00350	J
PSMF-St1-M-111723	NIOSH Method 7303	Calcium	3.47		0.730	0.926	µg/m <sup>3</sup>	3.47	
PSMF-St1-M-111723	NIOSH Method 7303	Chromium	0.183		0.00963	0.0370	µg/m <sup>3</sup>	0.183	
PSMF-St1-M-111723	NIOSH Method 7303	Cobalt	0.00986	ND	0.00981	0.0926	µg/m <sup>3</sup>	0.0926	U
PSMF-St1-M-111723	NIOSH Method 7303	Copper	0.118	J	0.0194	0.185	µg/m <sup>3</sup>	0.118	J
PSMF-St1-M-111723	NIOSH Method 7303	Iron	1.48		0.533	0.926	µg/m <sup>3</sup>	1.48	
PSMF-St1-M-111723	NIOSH Method 7303	Lead	0.0504	ND	0.0504	0.0926	µg/m <sup>3</sup>	0.0926	U
PSMF-St1-M-111723	NIOSH Method 7303	Magnesium	0.447	J	0.0981	0.926	µg/m <sup>3</sup>	0.447	J
PSMF-St1-M-111723	NIOSH Method 7303	Manganese	0.0566		0.00685	0.0370	µg/m <sup>3</sup>	0.0566	
PSMF-St1-M-111723	NIOSH Method 7303	Nickel	0.0230	J	0.0111	0.0926	µg/m <sup>3</sup>	0.0230	J
PSMF-St1-M-111723	NIOSH Method 7303	Potassium	0.888	J	0.0926	0.926	µg/m <sup>3</sup>	0.888	J
PSMF-St1-M-111723	NIOSH Method 7303	Selenium	0.0559	ND	0.0559	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St1-M-111723	NIOSH Method 7303	Silver	0.0163	ND	0.0163	0.0926	µg/m <sup>3</sup>	0.0926	U
PSMF-St1-M-111723	NIOSH Method 7303	Sodium	6.98		0.175	0.926	µg/m <sup>3</sup>	6.98	
PSMF-St1-M-111723	NIOSH Method 7303	Thallium	0.0280	ND	0.0280	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St1-M-111723	NIOSH Method 7303	Vanadium	0.0185	ND	0.0185	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St1-M-111723	NIOSH Method 7303	Zinc	0.511	J	0.0741	0.741	µg/m <sup>3</sup>	0.511	J
PSMF-St2-M-111723	NIOSH Method 7303	Aluminum	0.177	ND	0.177	0.926	µg/m <sup>3</sup>	0.926	U
PSMF-St2-M-111723	NIOSH Method 7303	Antimony	0.0620	ND	0.0620	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St2-M-111723	NIOSH Method 7303	Arsenic	0.0398	ND	0.0398	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St2-M-111723	NIOSH Method 7303	Barium	0.0272	J	0.00370	0.0370	µg/m <sup>3</sup>	0.0272	J
PSMF-St2-M-111723	NIOSH Method 7303	Beryllium	0.00185	ND	0.00185	0.0185	µg/m <sup>3</sup>	0.0185	U
PSMF-St2-M-111723	NIOSH Method 7303	Cadmium	0.00323	ND	0.00315	0.0185	µg/m <sup>3</sup>	0.0185	U
PSMF-St2-M-111723	NIOSH Method 7303	Calcium	1.83		0.730	0.926	µg/m <sup>3</sup>	1.83	

EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
ENTHALPY ANALYTICAL REPORT NO. 1123-014B

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St2-M-111723	NIOSH Method 7303	Chromium	0.148		0.00963	0.0370	µg/m <sup>3</sup>	0.148	
PSMF-St2-M-111723	NIOSH Method 7303	Cobalt	0.00986	ND	0.00981	0.0926	µg/m <sup>3</sup>	0.0926	U
PSMF-St2-M-111723	NIOSH Method 7303	Copper	0.0651	J	0.0194	0.185	µg/m <sup>3</sup>	0.0651	J
PSMF-St2-M-111723	NIOSH Method 7303	Iron	0.678	J	0.533	0.926	µg/m <sup>3</sup>	0.678	J
PSMF-St2-M-111723	NIOSH Method 7303	Lead	0.0504	ND	0.0504	0.0926	µg/m <sup>3</sup>	0.0926	U
PSMF-St2-M-111723	NIOSH Method 7303	Magnesium	0.339	J	0.0981	0.926	µg/m <sup>3</sup>	0.339	J
PSMF-St2-M-111723	NIOSH Method 7303	Manganese	0.0204	J	0.00685	0.0370	µg/m <sup>3</sup>	0.0204	J
PSMF-St2-M-111723	NIOSH Method 7303	Nickel	0.0217	J	0.0111	0.0926	µg/m <sup>3</sup>	0.0217	J
PSMF-St2-M-111723	NIOSH Method 7303	Potassium	0.817	J	0.0926	0.926	µg/m <sup>3</sup>	0.817	J
PSMF-St2-M-111723	NIOSH Method 7303	Selenium	0.0559	ND	0.0559	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St2-M-111723	NIOSH Method 7303	Silver	0.0163	ND	0.0163	0.0926	µg/m <sup>3</sup>	0.0926	U
PSMF-St2-M-111723	NIOSH Method 7303	Sodium	7.09		0.175	0.926	µg/m <sup>3</sup>	7.09	
PSMF-St2-M-111723	NIOSH Method 7303	Thallium	0.0280	ND	0.0280	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St2-M-111723	NIOSH Method 7303	Vanadium	0.0185	ND	0.0185	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St2-M-111723	NIOSH Method 7303	Zinc	0.277	J	0.0741	0.741	µg/m <sup>3</sup>	0.277	J
PSMF-St3-M-111723	NIOSH Method 7303	Aluminum	0.226	J	0.177	0.926	µg/m <sup>3</sup>	0.226	J
PSMF-St3-M-111723	NIOSH Method 7303	Antimony	0.0620	ND	0.0620	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St3-M-111723	NIOSH Method 7303	Arsenic	0.0398	ND	0.0398	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St3-M-111723	NIOSH Method 7303	Barium	0.0287	J	0.00370	0.0370	µg/m <sup>3</sup>	0.0287	J
PSMF-St3-M-111723	NIOSH Method 7303	Beryllium	0.00185	ND	0.00185	0.0185	µg/m <sup>3</sup>	0.0185	U
PSMF-St3-M-111723	NIOSH Method 7303	Cadmium	0.00323	ND	0.00315	0.0185	µg/m <sup>3</sup>	0.0185	U
PSMF-St3-M-111723	NIOSH Method 7303	Calcium	2.51		0.730	0.926	µg/m <sup>3</sup>	2.51	
PSMF-St3-M-111723	NIOSH Method 7303	Chromium	0.117		0.00963	0.0370	µg/m <sup>3</sup>	0.117	
PSMF-St3-M-111723	NIOSH Method 7303	Cobalt	0.00986	ND	0.00981	0.0926	µg/m <sup>3</sup>	0.0926	U
PSMF-St3-M-111723	NIOSH Method 7303	Copper	0.0632	J	0.0194	0.185	µg/m <sup>3</sup>	0.0632	J
PSMF-St3-M-111723	NIOSH Method 7303	Iron	0.533	ND	0.533	0.926	µg/m <sup>3</sup>	0.926	U
PSMF-St3-M-111723	NIOSH Method 7303	Lead	0.0504	ND	0.0504	0.0926	µg/m <sup>3</sup>	0.0926	U
PSMF-St3-M-111723	NIOSH Method 7303	Magnesium	0.407	J	0.0981	0.926	µg/m <sup>3</sup>	0.407	J
PSMF-St3-M-111723	NIOSH Method 7303	Manganese	0.0123	J	0.00685	0.0370	µg/m <sup>3</sup>	0.0123	J

EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
ENTHALPY ANALYTICAL REPORT NO. 1123-014B

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St3-M-111723	NIOSH Method 7303	Nickel	0.0245	J	0.0111	0.0926	µg/m <sup>3</sup>	0.0245	J
PSMF-St3-M-111723	NIOSH Method 7303	Potassium	0.662	J	0.0926	0.926	µg/m <sup>3</sup>	0.662	J
PSMF-St3-M-111723	NIOSH Method 7303	Selenium	0.0559	ND	0.0559	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St3-M-111723	NIOSH Method 7303	Silver	0.0163	ND	0.0163	0.0926	µg/m <sup>3</sup>	0.0926	U
PSMF-St3-M-111723	NIOSH Method 7303	Sodium	6.96		0.175	0.926	µg/m <sup>3</sup>	6.96	
PSMF-St3-M-111723	NIOSH Method 7303	Thallium	0.0280	ND	0.0280	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St3-M-111723	NIOSH Method 7303	Vanadium	0.0185	ND	0.0185	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St3-M-111723	NIOSH Method 7303	Zinc	0.106	J	0.0741	0.741	µg/m <sup>3</sup>	0.106	J
PSMF-St4-M-111723	NIOSH Method 7303	Aluminum	0.177	ND	0.177	0.926	µg/m <sup>3</sup>	0.926	U
PSMF-St4-M-111723	NIOSH Method 7303	Antimony	0.0620	ND	0.0620	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St4-M-111723	NIOSH Method 7303	Arsenic	0.0398	ND	0.0398	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St4-M-111723	NIOSH Method 7303	Barium	0.0200	J	0.00370	0.0370	µg/m <sup>3</sup>	0.0200	J
PSMF-St4-M-111723	NIOSH Method 7303	Beryllium	0.00185	ND	0.00185	0.0185	µg/m <sup>3</sup>	0.0185	U
PSMF-St4-M-111723	NIOSH Method 7303	Cadmium	0.00323	ND	0.00315	0.0185	µg/m <sup>3</sup>	0.0185	U
PSMF-St4-M-111723	NIOSH Method 7303	Calcium	2.21		0.730	0.926	µg/m <sup>3</sup>	2.21	
PSMF-St4-M-111723	NIOSH Method 7303	Chromium	0.184		0.00963	0.0370	µg/m <sup>3</sup>	0.184	
PSMF-St4-M-111723	NIOSH Method 7303	Cobalt	0.00986	ND	0.00981	0.0926	µg/m <sup>3</sup>	0.0926	U
PSMF-St4-M-111723	NIOSH Method 7303	Copper	0.0663	J	0.0194	0.185	µg/m <sup>3</sup>	0.0663	J
PSMF-St4-M-111723	NIOSH Method 7303	Iron	8.97		0.533	0.926	µg/m <sup>3</sup>	8.97	
PSMF-St4-M-111723	NIOSH Method 7303	Lead	0.0504	ND	0.0504	0.0926	µg/m <sup>3</sup>	0.0926	U
PSMF-St4-M-111723	NIOSH Method 7303	Magnesium	0.370	J	0.0981	0.926	µg/m <sup>3</sup>	0.370	J
PSMF-St4-M-111723	NIOSH Method 7303	Manganese	0.0747		0.00685	0.0370	µg/m <sup>3</sup>	0.0747	
PSMF-St4-M-111723	NIOSH Method 7303	Nickel	0.0295	J	0.0111	0.0926	µg/m <sup>3</sup>	0.0295	J
PSMF-St4-M-111723	NIOSH Method 7303	Potassium	0.630	J	0.0926	0.926	µg/m <sup>3</sup>	0.630	J
PSMF-St4-M-111723	NIOSH Method 7303	Selenium	0.0559	ND	0.0559	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St4-M-111723	NIOSH Method 7303	Silver	0.0163	ND	0.0163	0.0926	µg/m <sup>3</sup>	0.0926	U
PSMF-St4-M-111723	NIOSH Method 7303	Sodium	7.31		0.175	0.926	µg/m <sup>3</sup>	7.31	
PSMF-St4-M-111723	NIOSH Method 7303	Thallium	0.0280	ND	0.0280	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St4-M-111723	NIOSH Method 7303	Vanadium	0.0185	ND	0.0185	0.185	µg/m <sup>3</sup>	0.185	U

EAST PARKER STREET TEXTILE MILL FIRE AIR ANALYTICAL RESULTS SUMMARY  
ENTHALPY ANALYTICAL REPORT NO. 1123-014B

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val_Result	Val_Qual
PSMF-St4-M-111723	NIOSH Method 7303	Zinc	0.293	J	0.0741	0.741	µg/m <sup>3</sup>	0.293	J
PSMF-St5-M-111723	NIOSH Method 7303	Aluminum	0.229	J	0.177	0.926	µg/m <sup>3</sup>	0.229	J
PSMF-St5-M-111723	NIOSH Method 7303	Antimony	0.0620	ND	0.0620	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St5-M-111723	NIOSH Method 7303	Arsenic	0.0398	ND	0.0398	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St5-M-111723	NIOSH Method 7303	Barium	0.0350	J	0.00370	0.0370	µg/m <sup>3</sup>	0.0350	J
PSMF-St5-M-111723	NIOSH Method 7303	Beryllium	0.00185	ND	0.00185	0.0185	µg/m <sup>3</sup>	0.0185	U
PSMF-St5-M-111723	NIOSH Method 7303	Cadmium	0.00323	ND	0.00315	0.0185	µg/m <sup>3</sup>	0.0185	U
PSMF-St5-M-111723	NIOSH Method 7303	Calcium	2.90		0.730	0.926	µg/m <sup>3</sup>	2.90	
PSMF-St5-M-111723	NIOSH Method 7303	Chromium	0.139		0.00963	0.0370	µg/m <sup>3</sup>	0.139	
PSMF-St5-M-111723	NIOSH Method 7303	Cobalt	0.00986	ND	0.00981	0.0926	µg/m <sup>3</sup>	0.0926	U
PSMF-St5-M-111723	NIOSH Method 7303	Copper	0.0635	J	0.0194	0.185	µg/m <sup>3</sup>	0.0635	J
PSMF-St5-M-111723	NIOSH Method 7303	Iron	3.97		0.533	0.926	µg/m <sup>3</sup>	3.97	
PSMF-St5-M-111723	NIOSH Method 7303	Lead	0.0504	ND	0.0504	0.0926	µg/m <sup>3</sup>	0.0926	U
PSMF-St5-M-111723	NIOSH Method 7303	Magnesium	0.365	J	0.0981	0.926	µg/m <sup>3</sup>	0.365	J
PSMF-St5-M-111723	NIOSH Method 7303	Manganese	0.0396		0.00685	0.0370	µg/m <sup>3</sup>	0.0396	
PSMF-St5-M-111723	NIOSH Method 7303	Nickel	0.0312	J	0.0111	0.0926	µg/m <sup>3</sup>	0.0312	J
PSMF-St5-M-111723	NIOSH Method 7303	Potassium	0.742	J	0.0926	0.926	µg/m <sup>3</sup>	0.742	J
PSMF-St5-M-111723	NIOSH Method 7303	Selenium	0.0559	ND	0.0559	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St5-M-111723	NIOSH Method 7303	Silver	0.0163	ND	0.0163	0.0926	µg/m <sup>3</sup>	0.0926	U
PSMF-St5-M-111723	NIOSH Method 7303	Sodium	6.30		0.175	0.926	µg/m <sup>3</sup>	6.30	
PSMF-St5-M-111723	NIOSH Method 7303	Thallium	0.0280	ND	0.0280	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St5-M-111723	NIOSH Method 7303	Vanadium	0.0185	ND	0.0185	0.185	µg/m <sup>3</sup>	0.185	U
PSMF-St5-M-111723	NIOSH Method 7303	Zinc	0.360	J	0.0741	0.741	µg/m <sup>3</sup>	0.360	J

**ATTACHMENT 1**

**NRC REPORT #1384314**

(Five Pages)

## Williams, Josiah

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**From:** Jardine, Rick <Jardine.Richard@epa.gov>  
**Sent:** Tuesday, November 14, 2023 10:03 PM  
**To:** Williams, Josiah  
**Cc:** Kerr, Cameron; Collins, William; Huyser, Matthew; Rhame, Kenneth; Snyder, John  
**Subject:** FW: NRC#1384314 . . . East Parker Street Textile Mill (no Site ID yet) Graham, NC

⚠ CAUTION: This email originated from an external sender. Verify the source before opening links or attachments. ⚠

Josiah,

Please see attached NRC Report. The fire is practically out, but a smolder lingers that has the local EMA concerned and seeking EPAs air quality skills and resources. As we discussed, please mobilize early tomorrow a.m. (beat traffic). Call Matt as you hit Duluth to coordinate the warehouse equipment. Please provide Suma cannisters, asbestos sample media, and water sampling jars. Matt is also seeking R2, R3, and John Snyder (if available).

Please call me (tonight) or Matt (tomorrow) if you have any questions.

Thanks,

Rick

---

Richard (Rick) Jardine, PE - Federal On-Scene Coordinator and Regional Planner U.S. Environmental Protection Agency,  
Region 4 | 61 Forsyth St SW | Atlanta, Georgia | 30303 Superfund and Emergency Management Division Emergency  
Response and Removal Branch (ERRB)  
office: 404-562-8764 | cell: 404-915-5868 | [response.epa.gov](mailto:response.epa.gov)

-----Original Message-----

From: HQS-SMB-NRC@uscg.mil <HQS-SMB-NRC@uscg.mil>  
Sent: Tuesday, November 14, 2023 8:41 PM  
To: R4DutyOSC <R4DutyOSC@epa.gov>  
Subject: NRC#1384314

Caution: This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Caution: This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

NATIONAL RESPONSE CENTER 1-800-424-8802

\*\*\*GOVERNMENT USE ONLY\*\*\*GOVERNMENT USE ONLY\*\*\*

Information released to a third party shall comply with any  
applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 1384314

INCIDENT DESCRIPTION

\*\*\*\* THIS IS A POTENTIAL RELEASE \*\*\*\*

\*Report taken by NRC on 14-NOV-23 at 20:33 ET.

Incident Type: FIXED

Incident Cause: UNKNOWN

Affected Area:

Incident occurred on 12-NOV-23 at 20:00 local incident time.

Affected Medium: NON-RELEASE (N/A) / SMOLDERING / SMOKE FROM THE  
FIRE THAT WAS PUT OUT

---

REPORTING PARTY

Name: CHRISTOPHER SAUL

Organization: ALAMANCE COUNTY EMA

Address: 1950 MARTIN STREET

BURLINGTON, NC

Email Address:

PRIMARY Phone: [REDACTED]

Type of Organization: LOCAL GOVERNMENT

---

SUSPECTED RESPONSIBLE PARTY

Name: UNKNOWN

Organization:

Address:

Type of Organization: UNKNOWN

---

INCIDENT LOCATION

300 EAST PARKER ST County: ALAMANCE

City: GRAHAM State: NC

ABANDONED TEXTILE MILL

---

POTENTIALLY RELEASED MATERIAL(S)

CHRIS Code: UNK Official Material Name: UNKNOWN MATERIAL

Also Known As:

Qty Released: 0 UNKNOWN AMOUNT

---

DESCRIPTION OF INCIDENT

CALLER STATES AN ABANDONED TEXTILE MILL CAUGHT ON FIRE DUE TO AN  
UNKNOWN CAUSE AT THIS TIME. CALLER STATES IT IS UNKNOWN IF THERE  
WAS A MATERIAL RELEASE BUT THE FIRE HAS BEEN PUT OUT (IT IS JUST  
SMOLDERING NOW).

---

SENSITIVE INFORMATION

---

INCIDENT DETAILS

Package: N/A

Building ID:

Type of Fixed Object: OTHER

Power Generating Facility: NO



Generating Capacity:  
Type of Fuel:  
NPDES:  
NPDES Compliance: UNKNOWN

---

IMPACT

Fire Involved: YES Fire Extinguished: YES

INJURIES: NO Sent to Hospital: Empl/Crew: Passenger:  
FATALITIES: NO Empl/Crew: Passenger: Occupant:  
EVACUATIONS:NO Who Evacuated: Radius/Area:

Damages: UNKNOWN

Hours Direction of  
Closure Type Description of Closure Closed Closure

Air: NO

Major  
Road: NO Artery:NO

Waterway:NO

Track: NO

Passengers Transferred: NO  
Environmental Impact: UNKNOWN  
Media Interest: LOW

---

REMEDIAL ACTIONS

FIRE DEPT IS ONSCENE MONITORING THE INCIDENT AND AERIAL DEVICES ARE  
BEING USED TO KEEP THE SMOLDERING DOWN  
Release Secured: UNKNOWN  
Release Rate:  
Estimated Release Duration:

---

WEATHER

---

ADDITIONAL AGENCIES NOTIFIED

Federal:  
State/Local:  
State/Local On Scene: EMA; FIRE DEPT  
State Agency Number:

---

NOTIFICATIONS BY NRC

CENTERS FOR DISEASE CONTROL (GRASP)  
14-NOV-23 20:40 (770)4887100  
ASST COMDT FOR INTELLIGENCE (CG-2) (OFFICE OF INTELLIGENCE PLANS AND POLICY  
(CG-25))  
14-NOV-23 20:40 (202)3722886

CHEM SAFETY AND HAZARD INVEST BOARD (MAIN OFFICE)  
 14-NOV-23 20:40

CBP TRADE PTNRSHIP AGAINST TERRORISM (CTPAT PROGRAM MIAMI)  
 14-NOV-23 20:40 (305)2050759

DEPT OF HEALTH AND HUMAN SERVICES (SECRETARY OPERATION CENTER (SOC))  
 14-NOV-23 20:40

DHS CISA (CISA CENTRAL)  
 14-NOV-23 20:40 (202)2829201

DHS I&A STATE AND LOCAL PRGM OFFICE (RALEIGH, NC FUSION CENTER)  
 14-NOV-23 20:40 (202)5575179

DHS SOUTH CAROLINA FUSION CENTER (LE SENSITIVE ADVISORS & LIASON PROGRAM)  
 14-NOV-23 20:40 (866)4728477

OFFICE OF ENV. POLICY & COMPLIANCE (OEPC REGION 4)  
 14-NOV-23 20:40 (404)3314524

DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)  
 14-NOV-23 20:40 (202)3661863

DOT OFFICE OF INSPECTOR GENERAL (OFFICE OF INVESTIGATORS)  
 14-NOV-23 20:40 (202)3660339

U.S. EPA IV (MAIN OFFICE)  
 14-NOV-23 20:40 (404)6504955 R4 DUTY PAGER

U.S. EPA IV (NC/SC INCIDENTS)  
 14-NOV-23 20:40 (404)6504955

JOINT TASK FORCE CIVIL SUPPORT (CBRN ANALYSIS CELL)  
 14-NOV-23 20:40 (757)5017422

NC DEPT OF EMERGENCY MGMT (MAIN OFFICE)  
 14-NOV-23 20:40 (800)8580368

NC DEPT OF ENVIRONMENTAL QUALITY (DIVISION OF AIR QUALITY)  
 14-NOV-23 20:40 (919)7078443

NC DEPT OF ENVIRONMENTAL QUALITY (DIVISION OF WASTE MANAGEMENT)  
 14-NOV-23 20:40 (919)7078200

NC OCCUPATIONAL ENVMTL EPIDEMIOLOGY (COMMAND CENTER)  
 14-NOV-23 20:40 (919)7075950

NC PUBLIC HEALTH PREPARE AND RESPNS (PHPR COMMAND CENTER)  
 14-NOV-23 20:40 (919)7150919

NOAA RPTS FOR NC (MAIN OFFICE)  
 14-NOV-23 20:40 (206)5264911

PIPELINE & HAZMAT SAFETY ADMIN (HAZARDOUS MATERIAL ACCIDENT INVESTIGATION)  
 14-NOV-23 20:40 (202)3664031

STATE OF NORTH CAROLINA DENR (MAIN OFFICE)  
 14-NOV-23 20:40 (919)8076300

TSA OFFICE OF SECURITY OPERATIONS (SURFACE COMPLIANCE BRANCH SE REGION)  
 14-NOV-23 20:40 (904)9804075

TENNESSEE VALLEY AUTHORITY (POLICE AND EMERGENCY MANAGEMENT)  
 14-NOV-23 20:40 (931)2019665

TENNESSEE VALLEY AUTHORITY (EMERGENCY MANAGEMENT)  
 14-NOV-23 20:40 (336)2137463

USCG DISTRICT 5 (D5 DRAT)  
 14-NOV-23 20:40 (757)3986231

US COURTS JUDICIAL SECURITY DIV (FACILITIES AND SECURITY OFFICE (FSO))  
 14-NOV-23 20:40 (847)9034936

---

ADDITIONAL INFORMATION

THERE WAS LOCAL MEDIA INTEREST. CALLER IS REQUESTING A CALL BACK  
FROM THE ENVIRONMENTAL PROTECTION AGENCY (EPA).

---

\*\*\* END INCIDENT REPORT #1384314 \*\*\*

Report any problems by calling 1-800-424-8802

PLEASE VISIT OUR WEB SITE AT <http://nrc.uscg.mil/>

## **ATTACHMENT 2**

### **VIPER DATA SUMMARY REPORTS**

(Nine Pages)

# Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's VIPER wireless remote monitoring system.

**Project Name:** East Parker Street Textile Mill Fire

**From:** 11/15/23  
4:16 PM

**To:** 11/16/23  
1:54 PM



Station 1 - Melville Street (South)							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 1	VOC	No	1184	509	0 - 3849 ppb	26.3 ppb	9000 ppb
	CO	No	1184	2	0 - 8 ppm	0 ppm	83 ppm
	H <sub>2</sub> S	Yes	1184	1	0 - 0.6 ppm	0 ppm	0.51 ppm
	O <sub>2</sub>	No	1184	1184	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	1184	138	0 - 4 %	0.3 %	10 %
	HCN	No	1184	7	0 - 0.1 ppm	0 ppm	2 ppm
DustTrak 1	PM-2.5	See PM2.5 Action Level Sheet	505	502	0 - 196 µg/m3	47.8 µg/m3	See PM2.5 Action Level Sheet
SPM Flex 1	Phosgene	No	629	0	0 - 0 ppm	0 ppm	0.3 ppm

Station 2 - East Parker Street (West)							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 2	VOC	No	1178	39	0 - 3521 ppb	9.9 ppb	9000 ppb
	CO	No	1178	2	0 - 8 ppm	0 ppm	83 ppm
	H <sub>2</sub> S	Yes	1178	1	0 - 0.6 ppm	0 ppm	0.51 ppm
	O <sub>2</sub>	No	1178	1178	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	1178	0	0 - 0 %	0 %	10 %
	HCN	No	1178	0	0 - 0 ppm	0 ppm	2 ppm
DustTrak 2	PM-2.5	See PM2.5 Action Level Sheet	1239	1081	-1 - 501 µg/m3	24.4 µg/m3	See PM2.5 Action Level Sheet
SPM Flex 2	Phosgene	No	1243	0	0 - 0 ppm	0 ppm	0.3 ppm

Station 3 - Jeffery Street (North)							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 3	VOC	No	1073	79	0 - 4604 ppb	18.1 ppb	9000 ppb
	CO	No	1073	4	0 - 52 ppm	0.1 ppm	83 ppm
	H <sub>2</sub> S	No	1073	0	0 - 0 ppm	0 ppm	0.51 ppm
	O <sub>2</sub>	Yes	1073	1073	14.4 - 24.5 %	17.7 %	<19.5 or >23 %
	LEL	No	1073	0	0 - 0 %	0 %	10 %
	HCN	No	1073	5	0 - 0.5 ppm	0 ppm	2 ppm
DustTrak 3	PM-2.5	See PM2.5 Action Level Sheet	1154	1154	8 - 372 µg/m3	54 µg/m3	See PM2.5 Action Level Sheet
SPM Flex 3	Phosgene	No	874	0	0 - 0 ppm	0 ppm	0.3 ppm

Station 4 - East Parker Street (East)							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 4	VOC	No	1178	2	0 - 12 ppb	0 ppb	9000 ppb
	CO	No	1178	0	0 - 0 ppm	0 ppm	83 ppm
	H <sub>2</sub> S	No	1178	0	0 - 0 ppm	0 ppm	0.51 ppm
	O <sub>2</sub>	No	1178	1178	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	1178	0	0 - 0 %	0 %	10 %
	HCN	No	1178	263	0 - 1.2 ppm	0.2 ppm	2 ppm
DustTrak 4	PM-2.5	See PM2.5 Action Level Sheet	922	922	7 - 580 µg/m3	61.8 µg/m3	See PM2.5 Action Level Sheet
SPM Flex 4	Phosgene	No	914	0	0 - 0 ppm	0 ppm	0.3 ppm

# Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's VIPER wireless remote monitoring system.



**Project Name: East Parker Street Textile Mill Fire**

**From: 11/15/23  
4:16 PM**

**To: 11/16/23  
1:54 PM**

		Analyte	Definition	Action Level Reference
Notes:				
%	Percent	VOC	Volatile Organic Compounds	AEGL-1 8hr for Benzene
<	Less than	CO	Carbon Monoxide	AEGL-2 1hr
>	Greater than	H2S	Hydrogen Sulfide	AEGL-1 1hr
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals	O2	Oxygen	29 CFR 1910.146, Confined Spaces
C/m	Counts (ionization events) per minute	LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
mg/m3	milligrams per cubic meter	NH3	Ammonia	AEGL-1 1hr
min	Minute	SO2	Sulfur Dioxide	AEGL-1 1hr
PAC	Protective Action Criteria	Cl2	Chlorine	AEGL-1 1hr
PEL	Permissible exposure limit	HCN	Hydrogen Cyanide	AEGL-1 1hr
ppb	Parts per billion	NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
ppm	Parts per million	γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
PM	Particulate matter	PM-2.5	Particulate Matter <2.5 microns	EPA AQI Categories for PM2.5
SOG	Standard Operating Guidelines	Phosgene	Phosgene (COCl <sub>2</sub> )	AEGL-2 1hr
SPM	Single Point Monitor	α/β/γ	Alpha, Beta and Gamma Radiation	Lowest 3x median (background) for Ludlums in period
TEEL	Temporary Emergency Exposure Limit			
TLV	Threshold limit value			
μg/m <sup>3</sup>	Micrograms per cubic meter			
μrem/h	Microrem per hour			
α	Alpha radiation (Ludlum 2241-2 can measure α under specific configuration)			
β	Beta radiation (Ludlum 2241-2 can measure β under specific configuration)			
γ	Gamma-wave radiation			

## Discussion:

The total run time for this period is less than the time indicated. While the first data value was collected at 4:16PM, the stations were not fully deployed in the field until 7PM. The interval of 7PM on November 15 to 2PM on November 16 is a period of 19 hours.

Station 1 was down for several hours during the night and had to be restarted. The period average particulate reading for this location is 47.8 ug/m3 which is a Level of Health Concern equal to Unhealthy for Sensitive Groups in the attached PM2.5 Action Levels table. Detections of VOCs are not unusual and the small detections under H2S and HCN are normal variations for the instrument.

Station 2 was functional and stable during the operational period. The period average particulate reading for this location is 24.4 ug/m3 which is a Level of Health Concern equal to Moderate in the attached table. A bump test was done on one instrument at 6am on November 16 for calibration purposes. Detections of VOCs are not unusual and the small detection under H2S are normal variations for the instrument.

Station 3 lost power during the day on November 16 and had to be reset. The period average for particulate reading for this location is 54 ug/m3 which is a Level of Health Concern equal to Unhealthy for Sensitive Groups in the attached table. A bump test was done on one instrument at 550am on November 16 for calibration purposes. Detections of VOCs are not unusual and the small detections under HCN are normal variations for the instrument.

Station 4 had to be restarted twice but was operational for a vast majority of the period. The period average for particulate reading for this location is 61.8 ug/m3 which is a Level of Health Concern equal to Unhealthy in the attached table. Detections of VOCs are not unusual and the small detections under HCN are normal variations for the instrument.

PM <sub>2.5</sub> (Particulate Matter ≤ 2.5 microns) Community Action Threshold Levels				
For Unified Command Use				
1-Hour Average (µg/m <sup>3</sup> )	24-Hour Average (µg/m <sup>3</sup> )	Level of Health Concern	Meaning	Action
0.0 - 40.0	0.0-12.0	<b>Good</b>	Air Quality is considered satisfactory, and air pollution poses little or no risk.	Implement communication plan.
40.1 - 80.0	12.1 - 35.4	<b>Moderate</b>	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.	Issue public announcement about health effects. Stay out of areas with visible smoke.
80.1 - 175.0	35.5 - 55.4	<b>Unhealthy for Sensitive Groups</b>	Members of sensitive groups may experience health effects. The general public is not likely to be affected.	Recommend evacuation or shelter-in-place for sensitive populations.
175.1 - 300.0	55.5 - 150.4	<b>Unhealthy</b>	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.	Consider closing schools and cancelling outdoor events. Recommend shelter-in-place for affected neighborhoods.
300.1 - 500.0	150.5 - 250.4	<b>Very Unhealthy</b>	Health warnings of emergency conditions. The entire population is more likely to be affected.	Consider closing schools and cancel all outdoor events. Recommend shelter-in-place and/or evacuation for affected neighborhoods.
> 500.0	> 250.5	<b>Hazardous</b>	Health alert: everyone may experience more serious health effects.	Recommend closing schools & cancel outdoor events. Recommend closing workplaces and evacuating affected neighborhoods.

See The National Ambient Air Quality Standards for Particle Pollution REVISED AIR QUALITY STANDARDS FOR PARTICLE POLLUTION AND UPDATES TO THE AIR QUALITY INDEX (AQI) ([https://www.epa.gov/sites/default/files/2016-04/documents/2012\\_aqi\\_factsheet.pdf](https://www.epa.gov/sites/default/files/2016-04/documents/2012_aqi_factsheet.pdf))



# Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's VIPER wireless remote monitoring system.



**Project Name: East Parker Street Textile Mill Fire**

**From: 11/16/23  
2:01 PM**

**To: 11/17/23  
2:00 PM**

Station 1 - Melville Street (South)							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 1	VOC	No	1438	1	0 - 28 ppb	0 ppb	9000 ppb
	CO	No	1438	0	0 - 0 ppm	0 ppm	83 ppm
	H <sub>2</sub> S	No	1438	0	0 - 0 ppm	0 ppm	0.51 ppm
	O <sub>2</sub>	No	1438	1438	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	1438	0	0 - 0 %	0 %	10 %
	HCN	No	1438	1	0 - 0.1 ppm	0 ppm	2 ppm
DustTrak 1	PM-2.5	See PM2.5 Action Level Sheet	1440	1440	13 - 245 µg/m3	52 µg/m3	See PM2.5 Action Level Sheet
SPM Flex 1	Phosgene	No	1439	0	0 - 0 ppm	0 ppm	0.3 ppm

Station 2 - East Parker Street (West)							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 2	VOC	No	1439	3	0 - 51 ppb	0.1 ppb	9000 ppb
	CO	No	1439	1	0 - 4 ppm	0 ppm	83 ppm
	H <sub>2</sub> S	No	1439	0	0 - 0 ppm	0 ppm	0.51 ppm
	O <sub>2</sub>	No	1439	1439	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	1439	0	0 - 0 %	0 %	10 %
	HCN	No	1439	0	0 - 0 ppm	0 ppm	2 ppm
DustTrak 2	PM-2.5	See PM2.5 Action Level Sheet	1439	1125	0 - 452 µg/m3	26.9 µg/m3	See PM2.5 Action Level Sheet
SPM Flex 2	Phosgene	No	1439	0	0 - 0 ppm	0 ppm	0.3 ppm

Station 3 - Jeffery Street (North)							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 3	VOC	No	1439	0	0 - 0 ppb	0 ppb	9000 ppb
	CO	No	1439	1	0 - 13 ppm	0 ppm	83 ppm
	H <sub>2</sub> S	No	1439	0	0 - 0 ppm	0 ppm	0.51 ppm
	O <sub>2</sub>	Yes	1439	1439	16.8 - 23.7 %	19.6 %	<19.5 or >23 %
	LEL	No	1439	0	0 - 0 %	0 %	10 %
	HCN	No	1439	0	0 - 0 ppm	0 ppm	2 ppm
DustTrak 3	PM-2.5	See PM2.5 Action Level Sheet	1440	1440	9 - 386 µg/m3	31.7 µg/m3	See PM2.5 Action Level Sheet
SPM Flex 3	Phosgene	No	1439	0	0 - 0 ppm	0 ppm	0.3 ppm

Station 4 - East Parker Street (East)							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 4	VOC	No	1438	1	0 - 36 ppb	0 ppb	9000 ppb
	CO	No	1438	0	0 - 0 ppm	0 ppm	83 ppm
	H <sub>2</sub> S	No	1438	0	0 - 0 ppm	0 ppm	0.51 ppm
	O <sub>2</sub>	No	1438	1438	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	1438	0	0 - 0 %	0 %	10 %
	HCN	No	1438	0	0 - 0 ppm	0 ppm	2 ppm
DustTrak 4	PM-2.5	See PM2.5 Action Level Sheet	1418	1418	7 - 1580 µg/m3	72.2 µg/m3	See PM2.5 Action Level Sheet
SPM Flex 4	Phosgene	Yes	1419	1	0 - 2 ppm	0 ppm	0.3 ppm

# Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's VIPER wireless remote monitoring system.



**Project Name: East Parker Street Textile Mill Fire**

**From: 11/16/23  
2:01 PM**

**To: 11/17/23  
2:00 PM**

Notes:		Analyte	Definition	Action Level Reference
%	Percent	VOC	Volatile Organic Compounds	AEGL-1 8hr for Benzene
<	Less than	CO	Carbon Monoxide	AEGL-2 1hr
>	Greater than	H2S	Hydrogen Sulfide	AEGL-1 1hr
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals	O2	Oxygen	29 CFR 1910.146, Confined Spaces
C/m	Counts (ionization events) per minute	LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
mg/m3	milligrams per cubic meter	NH3	Ammonia	AEGL-1 1hr
min	Minute	SO2	Sulfur Dioxide	AEGL-1 1hr
PAC	Protective Action Criteria	Cl2	Chlorine	AEGL-1 1hr
PEL	Permissible exposure limit	HCN	Hydrogen Cyanide	AEGL-1 1hr
ppb	Parts per billion	NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
ppm	Parts per million	γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
PM	Particulate matter	PM-2.5	Particulate Matter <2.5 microns	EPA AQI Categories for PM2.5
SOG	Standard Operating Guidelines	Phosgene	Phosgene (COCl2)	AEGL-2 1hr
SPM	Single Point Monitor	α/β/γ	Alpha, Beta and Gamma Radiation	Lowest 3x median (background) for Ludlums in period
TEEL	Temporary Emergency Exposure Limit			
TLV	Threshold limit value			
μg/m3	Micrograms per cubic meter			
μrem/h	Microrem per hour			
α	Alpha radiation (Ludlum 2241-2 can measure α under specific configuration)			
β	Beta radiation (Ludlum 2241-2 can measure β under specific configuration)			
γ	Gamma-wave radiation			

## Discussion:

The total run time for this period is 24 hours.

Station 1 was fully operational. The period average particulate reading for this location is 52 ug/m3 which is a Level of Health Concern equal to Unhealthy for Sensitive Groups in the attached PM2.5 Action Levels table. Detections of VOCs are not unusual and the small detection of HCN are normal variations for the instrument. Higher concentrations of particulates were experienced overnight, after temperatures fell a heavier smoke was observed in the area. No detections of VOCs, CO, HCN or H2S were seen as part of the smoke event.

Station 2 was fully operational. The period average particulate reading for this location is 26.9 ug/m3 which is a Level of Health Concern equal to Moderate in the attached table. Detections of VOCs are not unusual. An elevated concentration of particulates was observed from 9am to 10am reaching a peak of 452 ug/m3 but returned to below 10 ug/m3 after 10am.

Station 3 was fully operational. The period average for particulate reading for this location is 31.7 ug/m3 which is a Level of Health Concern equal to Moderate in the attached table. No other adverse detections were measured.

Station 4 had to be restarted twice but was operational for a vast majority of the period. The period average for particulate reading for this location is 72.2 ug/m3 which is a Level of Health Concern equal to Unhealthy in the attached table. Detections of VOCs are not unusual. An elevated concentration of particulates was observed from 3am to 4am with a peak of 1410 ug/m3 then returning to less than 10 ug/m3. Another elevated concentration was observed from 8am to 830am with a peak of 2150 ug/m3 then returning to 20 ug/m3. Air samples were taken overnight which will measure composition of the smoke. Those samples are being sent to a laboratory for analysis.

PM <sub>2.5</sub> (Particulate Matter ≤ 2.5 microns) Community Action Threshold Levels				
For Unified Command Use				
1-Hour Average (µg/m <sup>3</sup> )	24-Hour Average (µg/m <sup>3</sup> )	Level of Health Concern	Meaning	Action
0.0 - 40.0	0.0-12.0	<b>Good</b>	Air Quality is considered satisfactory, and air pollution poses little or no risk.	Implement communication plan.
40.1 - 80.0	12.1 - 35.4	<b>Moderate</b>	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.	Issue public announcement about health effects. Stay out of areas with visible smoke.
80.1 - 175.0	35.5 - 55.4	<b>Unhealthy for Sensitive Groups</b>	Members of sensitive groups may experience health effects. The general public is not likely to be affected.	Recommend evacuation or shelter-in-place for sensitive populations.
175.1 - 300.0	55.5 - 150.4	<b>Unhealthy</b>	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.	Consider closing schools and cancelling outdoor events. Recommend shelter-in-place for affected neighborhoods.
300.1 - 500.0	150.5 - 250.4	<b>Very Unhealthy</b>	Health warnings of emergency conditions. The entire population is more likely to be affected.	Consider closing schools and cancel all outdoor events. Recommend shelter-in-place and/or evacuation for affected neighborhoods.
> 500.0	> 250.5	<b>Hazardous</b>	Health alert: everyone may experience more serious health effects.	Recommend closing schools & cancel outdoor events. Recommend closing workplaces and evacuating affected neighborhoods.

See The National Ambient Air Quality Standards for Particle Pollution REVISED AIR QUALITY STANDARDS FOR PARTICLE POLLUTION AND UPDATES TO THE AIR QUALITY INDEX (AQI) ([https://www.epa.gov/sites/default/files/2016-04/documents/2012\\_aqi\\_factsheet.pdf](https://www.epa.gov/sites/default/files/2016-04/documents/2012_aqi_factsheet.pdf))

# Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's VIPER wireless remote monitoring system.



**Project Name: East Parker Street Textile Mill Fire**

**From: 11/17/23  
2:01 PM**

**To: 11/18/23  
8:17 AM**

Station 1 - Melville Street (South)							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 1	VOC	No	829	0	0 - 0 ppb	0 ppb	9000 ppb
	CO	No	829	1	0 - 3 ppm	0 ppm	83 ppm
	H <sub>2</sub> S	No	829	0	0 - 0 ppm	0 ppm	0.51 ppm
	O <sub>2</sub>	No	829	829	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	829	374	0 - 4 %	1.3 %	10 %
	HCN	No	829	0	0 - 0 ppm	0 ppm	2 ppm
DustTrak 1	PM-2.5	See PM2.5 Action Level Sheet	1073	1073	16 - 111 µg/m3	38.6 µg/m3	See PM2.5 Action Level Sheet
SPM Flex 1	Phosgene	No	1073	0	0 - 0 ppm	0 ppm	0.3 ppm

Station 2 - East Parker Street (West)							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 2	VOC	No	840	0	0 - 0 ppb	0 ppb	9000 ppb
	CO	No	840	0	0 - 0 ppm	0 ppm	83 ppm
	H <sub>2</sub> S	No	840	0	0 - 0 ppm	0 ppm	0.51 ppm
	O <sub>2</sub>	No	840	840	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	840	0	0 - 0 %	0 %	10 %
	HCN	No	840	0	0 - 0 ppm	0 ppm	2 ppm
DustTrak 2	PM-2.5	See PM2.5 Action Level Sheet	1096	913	0 - 161 µg/m3	27.1 µg/m3	See PM2.5 Action Level Sheet
SPM Flex 2	Phosgene	No	1097	0	0 - 0 ppm	0 ppm	0.3 ppm

Station 3 - Jeffery Street (North)							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 3	VOC	No	810	2	0 - 428 ppb	0.6 ppb	9000 ppb
	CO	No	810	2	0 - 5 ppm	0 ppm	83 ppm
	H <sub>2</sub> S	No	810	0	0 - 0 ppm	0 ppm	0.51 ppm
	O <sub>2</sub>	Yes	810	810	18.2 - 22.5 %	20.1 %	<19.5 or >23 %
	LEL	No	810	0	0 - 0 %	0 %	10 %
	HCN	No	810	0	0 - 0 ppm	0 ppm	2 ppm
DustTrak 3	PM-2.5	See PM2.5 Action Level Sheet	1055	1055	7 - 323 µg/m3	53.8 µg/m3	See PM2.5 Action Level Sheet
SPM Flex 3	Phosgene	No	1055	0	0 - 0 ppm	0 ppm	0.3 ppm

Station 4 - East Parker Street (East)							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 4	VOC	No	840	0	0 - 0 ppb	0 ppb	9000 ppb
	CO	No	840	5	0 - 13 ppm	0 ppm	83 ppm
	H <sub>2</sub> S	Yes	840	3	0 - 1.3 ppm	0 ppm	0.51 ppm
	O <sub>2</sub>	No	840	840	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	840	0	0 - 0 %	0 %	10 %
	HCN	No	840	0	0 - 0 ppm	0 ppm	2 ppm
DustTrak 4	PM-2.5	See PM2.5 Action Level Sheet	994	994	6 - 3640 µg/m3	171.4 µg/m3	See PM2.5 Action Level Sheet
SPM Flex 4	Phosgene	Yes	994	1	0 - 2 ppm	0 ppm	0.3 ppm

# Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's VIPER wireless remote monitoring system.



**Project Name: East Parker Street Textile Mill Fire**

**From: 11/17/23  
2:01 PM**

**To: 11/18/23  
8:17 AM**

Notes:		Analyte	Definition	Action Level Reference
%	Percent	VOC	Volatile Organic Compounds	AEGL-1 8hr for Benzene
<	Less than	CO	Carbon Monoxide	AEGL-2 1hr
>	Greater than	H2S	Hydrogen Sulfide	AEGL-1 1hr
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals	O2	Oxygen	29 CFR 1910.146, Confined Spaces
C/m	Counts (ionization events) per minute	LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
mg/m3	milligrams per cubic meter	NH3	Ammonia	AEGL-1 1hr
min	Minute	SO2	Sulfur Dioxide	AEGL-1 1hr
PAC	Protective Action Criteria	Cl2	Chlorine	AEGL-1 1hr
PEL	Permissible exposure limit	HCN	Hydrogen Cyanide	AEGL-1 1hr
ppb	Parts per billion	NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
ppm	Parts per million	γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
PM	Particulate matter	PM-2.5	Particulate Matter <2.5 microns	EPA AQI Categories for PM2.5
SOG	Standard Operating Guidelines	Phosgene	Phosgene (COCl2)	AEGL-2 1hr
SPM	Single Point Monitor	α/β/γ	Alpha, Beta and Gamma Radiation	Lowest 3x median (background) for Ludlums in period
TEEL	Temporary Emergency Exposure Limit			
TLV	Threshold limit value			
μg/m3	Micrograms per cubic meter			
μrem/h	Microrem per hour			
α	Alpha radiation (Ludlum 2241-2 can measure α under specific configuration)			
β	Beta radiation (Ludlum 2241-2 can measure β under specific configuration)			
γ	Gamma-wave radiation			

## Discussion:

The total run time for this period is 18 hours. Stations were taken down and demobilized on the morning of Saturday, November 18. Samples that were taken over the last 3 days have been sent to laboratories for analysis and preliminary results will be available within the next few days.

Station 1 was fully operational. The period average particulate reading for this location is 38.6 ug/m3 which is a Level of Health Concern equal to Unhealthy for Sensitive Groups in the attached PM2.5 Action Levels table. No other adverse detections were measured. The DustTrak and AreaRAE were calibrated on the evening of 11/17/2023

Station 2 was fully operational. The period average particulate reading for this location is 27.1 ug/m3 which is a Level of Health Concern equal to Moderate in the attached table. No other adverse detections were measured. The DustTrak and AreaRAE were calibrated on the evening of 11/17/2023

Station 3 was fully operational. The period average for particulate reading for this location is 53.8 ug/m3 which is a Level of Health Concern equal to Unhealthy for Sensitive Groups in the attached table. No other adverse detections were measured. The DustTrak and AreaRAE were calibrated on the evening of 11/17/2023

Station 4 was fully operational. The period average for particulate reading for this location is 171.4 ug/m3 which is a Level of Health Concern equal to Very Unhealthy in the attached table. However, this period only ran for 18 hours, not a full 24 hours. The highest concentrations at this station are observed at night and the lowest concentrations during the day, which was not included in the measurement. If the daytime concentrations were included at an average of anything less than 80 ug/m3, the 24-hour average would fall in the Unhealthy category as it did during the previous period. Beginning at 6pm, PM2.5 was consistently above 60 ug/mg3 with a peak of 2970 ug/m3 occurring at 7pm and a peak of 4030 ug/m3 at 11pm. During the daytime hours preceeding 6pm, concentrations were below 15 ug/m3. The DustTrak and AreaRAE were calibrated on the evening of 11/17/2023

PM <sub>2.5</sub> (Particulate Matter ≤ 2.5 microns) Community Action Threshold Levels				
For Unified Command Use				
1-Hour Average (µg/m <sup>3</sup> )	24-Hour Average (µg/m <sup>3</sup> )	Level of Health Concern	Meaning	Action
0.0 - 40.0	0.0-12.0	<b>Good</b>	Air Quality is considered satisfactory, and air pollution poses little or no risk.	Implement communication plan.
40.1 - 80.0	12.1 - 35.4	<b>Moderate</b>	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.	Issue public announcement about health effects. Stay out of areas with visible smoke.
80.1 - 175.0	35.5 - 55.4	<b>Unhealthy for Sensitive Groups</b>	Members of sensitive groups may experience health effects. The general public is not likely to be affected.	Recommend evacuation or shelter-in-place for sensitive populations.
175.1 - 300.0	55.5 - 150.4	<b>Unhealthy</b>	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.	Consider closing schools and cancelling outdoor events. Recommend shelter-in-place for affected neighborhoods.
300.1 - 500.0	150.5 - 250.4	<b>Very Unhealthy</b>	Health warnings of emergency conditions. The entire population is more likely to be affected.	Consider closing schools and cancel all outdoor events. Recommend shelter-in-place and/or evacuation for affected neighborhoods.
> 500.0	> 250.5	<b>Hazardous</b>	Health alert: everyone may experience more serious health effects.	Recommend closing schools & cancel outdoor events. Recommend closing workplaces and evacuating affected neighborhoods.

See The National Ambient Air Quality Standards for Particle Pollution REVISED AIR QUALITY STANDARDS FOR PARTICLE POLLUTION AND UPDATES TO THE AIR QUALITY INDEX (AQI) ([https://www.epa.gov/sites/default/files/2016-04/documents/2012\\_aqi\\_factsheet.pdf](https://www.epa.gov/sites/default/files/2016-04/documents/2012_aqi_factsheet.pdf))

**ATTACHMENT 3**

**LABORATORY ANALYTICAL DATA PACKAGES**

(374 Pages)



November 21, 2023

Tetra Tech  
1955 Evergreen Blvd Bldg 200 Ste 300  
Duluth, GA 30096

**CLIENT PROJECT:** East Parker Street Textile Fire, 103X90320082-073  
**CEI LAB CODE:** B2324295

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on November 20, 2023. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH  
Laboratory Director

---

## **ASBESTOS ANALYTICAL REPORT**

### **By: Polarized Light Microscopy**

Prepared for

**Tetra Tech**

---

CLIENT PROJECT: East Parker Street Textile Fire, 103X90320082-073

LAB CODE: B2324295

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 11/21/23

TOTAL SAMPLES ANALYZED: 5

# SAMPLES >1% ASBESTOS:

# Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

**PROJECT:** East Parker Street Textile Fire,  
103X90320082-073

**LAB CODE:** B2324295

**METHOD:** EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
EPSTF-RM-01		B2324295.01	Black	Roofing Material	None Detected
EPSTF-RM-02		B2324295.02	Black	Roofing Material	None Detected
EPSTF-RM-03		B2324295.03	Black	Roofing Material	None Detected
EPSTF-RM-04		B2324295.04	Black	Roofing Material	None Detected
EPSTF-RM-05		B2324295.05	Black	Roofing Material	None Detected

# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** Tetra Tech  
1955 Evergreen Blvd Bldg 200 Ste 300  
Duluth, GA 30096

**Lab Code:** B2324295  
**Date Received:** 11-20-23  
**Date Analyzed:** 11-21-23  
**Date Reported:** 11-21-23

**Project:** East Parker Street Textile Fire, 103X90320082-073

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
EPSTF-RM -01 B2324295.01	Roofing Material	Homogeneous Black Fibrous Bound	15% 5%	Cellulose Fiberglass	80%	Binder	None Detected
EPSTF-RM -02 B2324295.02	Roofing Material	Homogeneous Black Fibrous Bound	15% 5%	Cellulose Fiberglass	80%	Binder	None Detected
EPSTF-RM -03 B2324295.03	Roofing Material	Homogeneous Black Fibrous Bound	15% 5%	Cellulose Fiberglass	80%	Binder	None Detected
EPSTF-RM -04 B2324295.04	Roofing Material	Homogeneous Black Fibrous Bound	15% 5%	Cellulose Fiberglass	80%	Binder	None Detected
EPSTF-RM -05 B2324295.05	Roofing Material	Homogeneous Black Fibrous Bound	15% 5%	Cellulose Fiberglass	80%	Binder	None Detected

---

---

**LEGEND:**      Non-Anth      = Non-Asbestiform Anthophyllite  
                      Non-Trem      = Non-Asbestiform Tremolite  
                      Calc Carb      = Calcium Carbonate

---

**METHOD:** EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

---

**REPORTING LIMIT:** <1% by visual estimation

---

**REPORTING LIMIT FOR POINT COUNTS:** 0.25% by 400 Points or 0.1% by 1,000 Points

---

**REGULATORY LIMIT:** >1% by weight

---

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

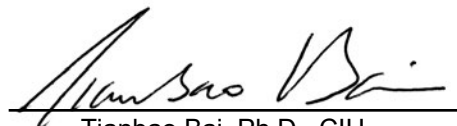
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Information provided by customer includes customer sample ID and sample description.

**ANALYST:**

  
 Khrista Petry

**APPROVED BY:**

  
 Tianbao Bai, Ph.D., CIH  
 Laboratory Director



November 22, 2023

Tetra Tech  
1955 Evergreen Blvd Bldg 200 Ste 300  
Duluth, GA 30096

**CLIENT PROJECT:** East Parker Street Textile Fire, 103X90320082-073  
**LAB CODE:** T232411

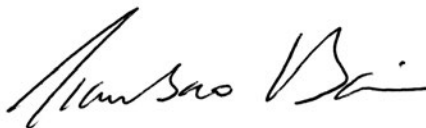
Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on November 21, 2023. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH  
Laboratory Director

---

# **ASBESTOS ANALYTICAL REPORT**

## **By: Transmission Electron Microscopy**

Prepared for

**Tetra Tech**

---

CLIENT PROJECT: East Parker Street Textile Fire, 103X90320082-073

LAB CODE: T232411

TEST METHOD: Bulk Chatfield  
EPA 600 / R93 / 116 Sec. 2.5.5.1

REPORT DATE: 11/22/23



# ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

**Client:** Tetra Tech  
1955 Evergreen Blvd Bldg 200 Ste 300  
Duluth, GA 30096

**Lab Code:** T232411  
**Date Received:** 11-21-23  
**Date Analyzed:** 11-22-23  
**Date Reported:** 11-22-23

**Project:** East Parker Street Textile Fire, 103X90320082-073

## TEM BULK CHATFIELD / EPA 600 / R93 / 116 Sec. 2.5.5.1

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
EPSTF-RM -01 T67687	Black Roofing Material	0.222	69.8	5.4	24.8	None Detected

---

**LEGEND:** None

---

**METHOD:** CHATFIELD & EPA/600/R-93/116 Sec. 2.5.5.1

---

**LIMIT OF DETECTION:** Varies with the weight and constituents of the sample (<1%)

---

**REGULATORY LIMIT:** >1% by weight

---

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Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ECEI recommends between 0.20 and 0.50 grams of sample material for TEM bulk analysis.

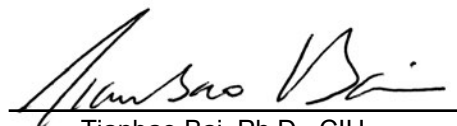
*Any weight below 0.10 grams is considered below protocol guidelines.*

*\*\*Indicates sample weight below 0.05 grams and is considered insufficient for quantitative analysis.*

**ANALYST:**

  
Brunilda Gjoka

**APPROVED BY:**

  
Tianbao Bai, Ph.D., CIH  
Laboratory Director

November 27, 2023

Tetra Tech  
1955 Evergreen Blvd Bldg 200 Ste 300  
Duluth, GA 30096

**CLIENT PROJECT:** Parker Street Mill Fore Graham, NC  
**LAB CODE:** R231228

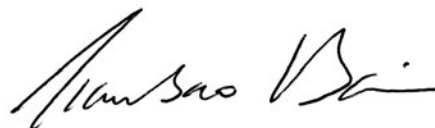
Dear Customer:

Enclosed are asbestos analysis results for TEM air samples received at our laboratory on November 21, 2023. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per NIOSH 7402 Method.

The current OSHA 8-hour time weighted average permissible exposure limit (PEL) for asbestos is 0.1 f/cc and the 30 minutes excursion limit is 1 f/cc. The detection limit for the NIOSH 7402 method is one confirmed asbestos fiber above 95% expected mean blank value.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH  
Laboratory Director

---

**ASBESTOS ANALYTICAL REPORT**  
**By: Transmission Electron Microscopy**

Prepared for

**Tetra Tech**

---

CLIENT PROJECT: Parker Street Mill Fore Graham, NC

LAB CODE: R231228

TEST METHOD: Air NIOSH 7402

REPORT DATE: 11/27/23



CEI

# ASBESTOS AIR ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

**Client:** Tetra Tech  
1955 Evergreen Blvd Bldg 200 Ste 300  
Duluth, GA 30096

**Lab Code:** R231228  
**Date Received:** 11-21-23  
**Date Analyzed:** 11-27-23  
**Date Reported:** 11-27-23

**Project:** Parker Street Mill Fore Graham, NC

## TEM AIR NIOSH 7402

Client ID Lab ID	Volume (Liters)	PCM f/cc	Asbestos Type	Asbestos Fibers	Asbestos %	Asbestos f/cc
PSMF-St2-AS -111623 R31475	4000	0.00067	None Detected	0	0	<0.00011
PSMF-St3-AS -111623 R31476	4000	0.00067	None Detected	0	0	<0.000096
PSMF-St4-AS -111623 R31477	4000	0.00067	None Detected	0	0	<0.00034
PSMF-St5-AS -111623 R31478	4000	0.00067	None Detected	0	0	<0.00067
PSMF-St1-AS -111723 R31479	4000	0.00067	None Detected	0	0	<0.00067
PSMF-St2-AS -111723 R31480	4000	0.00067	None Detected	0	0	<0.00022
PSMF-St3-AS -111723 R31481	4000	0.00067	None Detected	0	0	<0.00017
PSMF-St4-AS -111723 R31482	4000	0.00067	None Detected	0	0	<0.00067
PSMF-St5-AS -111723 R31483	4000	0.00067	None Detected	0	0	<0.00011

---

**LEGEND:** f/cc = fibers/cubic centimeter

---

**METHOD:** NIOSH 7402

---

**Limit of Detection:** 1 confirmed asbestos fiber above 95% of expected mean blank value

---

**REGULATORY LIMIT:** OSHA Excursion Limit (EL) is 1.0 fibers per cc based on a 30 minute sample; OSHA Permissible Exposure Limit (PEL) is 0.10 fibers per cc based on 8 hour TWA

---

**ANALYTICAL EQUIPMENT:** JEOL Electron Microscope (JEM-1200 EXII)  
NORAN EDS System 7 (NSS112E)

---

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Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling. Customer shall submit PCM results with sample COC. If not, Eurofins CEI will analyze the samples using NIOSH 7400 Method.

No Field Blanks were submitted for project R231228.

**ANALYST:** Brunilda Gjoka  
Brunilda Gjoka

**APPROVED BY:** Tianbao Bai  
Tianbao Bai, Ph.D., CIH  
Laboratory Director

# Tetra Tech, Inc.

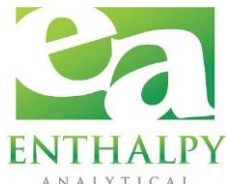
1955 Evergreen Blvd, Suite 300  
Duluth, GA 30096

## Parker Street Mill Fire *Graham, NC*

### Analytical Report (1123-014B\_R)

### ***NIOSH Method 7303***

Antimony, Aluminum, Arsenic, Barium, Beryllium, Calcium, Cadmium,  
Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel,  
Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc



### **Enthalpy Analytical, LLC**

Phone: (919) 850 - 4392 / Fax: (919) 850 - 9012 / [www.enthalpy.com](http://www.enthalpy.com)  
800-1 Capitola Drive Durham, NC 27713-4385

I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)

This analytical report was prepared in Portable Document Format (.PDF). This report shall not be reproduced except in full without approval of the laboratory. This will provide assurance that parts of a report are not taken out of context.

AMCross

Report Issued: 11/30/23





# Summary of Results



## NIOSH 7303 Summary

EA Project #: 1123-014

Client: Tetra Tech, Inc.

Client Project ID: Parker Street Mill Fire - Graham, NC

### Element / Concentration (ug/m3)

Sample ID	Antimony	Aluminium	Arsenic	Barium	Beryllium	Calcium
PSMF-St1-M-111723	0.0620 ND	0.298 J	0.0398 ND	0.0393	0.00185 ND	3.47
PSMF-St2-M-111723	0.0620 ND	0.177 ND	0.0398 ND	0.0272 J	0.00185 ND	1.83
PSMF-St3-M-111723	0.0620 ND	0.226 J	0.0398 ND	0.0287 J	0.00185 ND	2.51
PSMF-St4-M-111723	0.0620 ND	0.177 ND	0.0398 ND	0.0200 J	0.00185 ND	2.21
PSMF-St5-M-111723	0.0620 ND	0.229 J	0.0398 ND	0.0350 J	0.00185 ND	2.90

Sample ID	Cadmium	Chromium	Cobalt	Copper	Iron	Lead
PSMF-St1-M-111723	0.00350 J	0.183	0.00986 ND	0.118 J	1.48	0.0504 ND
PSMF-St2-M-111723	0.00323 ND	0.148	0.00986 ND	0.0651 J	0.678 J	0.0504 ND
PSMF-St3-M-111723	0.00323 ND	0.117	0.00986 ND	0.0632 J	0.533 ND	0.0504 ND
PSMF-St4-M-111723	0.00323 ND	0.184	0.00986 ND	0.0663 J	8.97	0.0504 ND
PSMF-St5-M-111723	0.00323 ND	0.139	0.00986 ND	0.0635 J	3.97	0.0504 ND

Sample ID	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver
PSMF-St1-M-111723	0.447 J	0.0566	0.0230 J	0.888 J	0.0559 ND	0.0163 ND
PSMF-St2-M-111723	0.339 J	0.0204 J	0.0217 J	0.817 J	0.0559 ND	0.0163 ND
PSMF-St3-M-111723	0.407 J	0.0123 J	0.0245 J	0.662 J	0.0559 ND	0.0163 ND
PSMF-St4-M-111723	0.370 J	0.0747	0.0295 J	0.630 J	0.0559 ND	0.0163 ND
PSMF-St5-M-111723	0.365 J	0.0396	0.0312 J	0.742 J	0.0559 ND	0.0163 ND

Sample ID	Sodium	Thallium	Vanadium	Zinc
PSMF-St1-M-111723	6.98	0.0280 ND	0.0185 ND	0.511 J
PSMF-St2-M-111723	7.09	0.0280 ND	0.0185 ND	0.277 J
PSMF-St3-M-111723	6.96	0.0280 ND	0.0185 ND	0.106 J
PSMF-St4-M-111723	7.31	0.0280 ND	0.0185 ND	0.293 J
PSMF-St5-M-111723	6.30	0.0280 ND	0.0185 ND	0.360 J

# Results

## Silver (328nm) in Filter ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
EA Job #: 1123-014  
Analysis Date: 11/27/23  
Analyst: LMP

MDL = 0.88 µg/L  
LOQ = 5 µg/L  
LCS Conc. = 400 µg/L  
PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	-0.0759	-0.08	25	1	1	0.0221	1350	0.0163	ND
PSMF-St2-M-111723	1123-014.2	-0.0267	-0.03	25	1	1	0.0221	1350	0.0163	ND
PSMF-St3-M-111723	1123-014.3	0.1299	0.13	25	1	1	0.0221	1350	0.0163	ND
PSMF-St4-M-111723	1123-014.4	0.1913	0.19	25	1	1	0.0221	1350	0.0163	ND
PSMF-St5-M-111723	1123-014.5	-0.0002	0.00	25	1	1	0.0221	1350	0.0163	ND
Lab Blank	1123-014.LB	-0.1769	-0.18	25	1	1	0.0221			ND
Lab Control Spike	1123-014.LCS	408.5000	408.50	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	959.2000	959.20	25	1	95.9%	Rec.			
Post Digestion Duplicate	1123-014.2D	0.2331	0.23	25	1	NA	RPD			ND

## Aluminum (167nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 9.56 µg/L  
 LOQ = 50 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	16.0700	16.07	25	1	1	0.402	1350	0.298	J
PSMF-St2-M-111723	1123-014.2	8.1550	8.16	25	1	1	0.239	1350	0.177	ND
PSMF-St3-M-111723	1123-014.3	12.1800	12.18	25	1	1	0.305	1350	0.226	J
PSMF-St4-M-111723	1123-014.4	8.9890	8.99	25	1	1	0.239	1350	0.177	ND
PSMF-St5-M-111723	1123-014.5	12.3900	12.39	25	1	1	0.310	1350	0.229	J
Lab Blank	1123-014.LB	2.5000	2.50	25	1	1	0.239			ND
Lab Control Spike	1123-014.LCS	420.7000	420.70	25	1	105%	Rec.			
Post Digestion Spike	1123-014.3S	1027.0000	1027.00	25	1	101%	Rec.			
Post Digestion Duplicate	1123-014.2D	7.7290	7.73	25	1	NA	RPD			ND

## Arsenic (193nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 2.15 µg/L  
 LOQ = 10 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	-1.0230	-1.02	25	1	1	0.0538	1350	0.0398	ND
PSMF-St2-M-111723	1123-014.2	0.2084	0.21	25	1	1	0.0538	1350	0.0398	ND
PSMF-St3-M-111723	1123-014.3	-1.7380	-1.74	25	1	1	0.0538	1350	0.0398	ND
PSMF-St4-M-111723	1123-014.4	0.6142	0.61	25	1	1	0.0538	1350	0.0398	ND
PSMF-St5-M-111723	1123-014.5	-1.1920	-1.19	25	1	1	0.0538	1350	0.0398	ND
Lab Blank	1123-014.LB	1.4300	1.43	25	1	1	0.0538			ND
Lab Control Spike	1123-014.LCS	406.6000	406.60	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	1001.0000	1001.00	25	1	100%	Rec.			
Post Digestion Duplicate	1123-014.2D	0.3429	0.34	25	1	NA	RPD			ND

## Barium (455nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 0.20 µg/L  
 LOQ = 2 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	2.1200	2.12	25	1	1	0.0530	1350	0.0393	
PSMF-St2-M-111723	1123-014.2	1.4690	1.47	25	1	1	0.0367	1350	0.0272	J
PSMF-St3-M-111723	1123-014.3	1.5510	1.55	25	1	1	0.0388	1350	0.0287	J
PSMF-St4-M-111723	1123-014.4	1.0780	1.08	25	1	1	0.0270	1350	0.0200	J
PSMF-St5-M-111723	1123-014.5	1.8920	1.89	25	1	1	0.0473	1350	0.0350	J
Lab Blank	1123-014.LB	0.0976	0.10	25	1	1	0.00500			ND
Lab Control Spike	1123-014.LCS	408.9000	408.90	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	1020.0000	1020.00	25	1	102%	Rec.			
Post Digestion Duplicate	1123-014.2D	1.8250	1.83	25	1	21.6%	RPD			J

## Beryllium (313nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 0.10 µg/L  
 LOQ = 1 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	0.0311	0.03	25	1	1	0.00250	1350	0.00185	ND
PSMF-St2-M-111723	1123-014.2	0.0134	0.01	25	1	1	0.00250	1350	0.00185	ND
PSMF-St3-M-111723	1123-014.3	0.0137	0.01	25	1	1	0.00250	1350	0.00185	ND
PSMF-St4-M-111723	1123-014.4	0.0290	0.03	25	1	1	0.00250	1350	0.00185	ND
PSMF-St5-M-111723	1123-014.5	0.0228	0.02	25	1	1	0.00250	1350	0.00185	ND
Lab Blank	1123-014.LB	0.0364	0.04	25	1	1	0.00250			ND
Lab Control Spike	1123-014.LCS	405.8000	405.80	25	1	101%	Rec.			
Post Digestion Spike	1123-014.3S	994.6000	994.60	25	1	99.5%	Rec.			
Post Digestion Duplicate	1123-014.2D	-0.0004	0.00	25	1	NA	RPD			ND



## Calcium (393nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 39.43 µg/L  
 LOQ = 50 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	187.2000	187.20	25	1	1	4.68	1350	3.47	
PSMF-St2-M-111723	1123-014.2	98.7400	98.74	25	1	1	2.47	1350	1.83	
PSMF-St3-M-111723	1123-014.3	135.6000	135.60	25	1	1	3.39	1350	2.51	
PSMF-St4-M-111723	1123-014.4	119.6000	119.60	25	1	1	2.99	1350	2.21	
PSMF-St5-M-111723	1123-014.5	156.6000	156.60	25	1	1	3.92	1350	2.90	
Lab Blank	1123-014.LB	26.0600	26.06	25	1	1	0.986			ND
Lab Control Spike	1123-014.LCS	439.5000	439.50	25	1	110% Rec.				
Post Digestion Spike	1123-014.3S	1182.0000	1182.00	25	1	105% Rec.				
Post Digestion Duplicate	1123-014.2D	98.9800	98.98	25	1	0.2% RPD				

## Cadmium (228nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 0.17 µg/L  
 LOQ = 1 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	0.1890	0.19	25	1	1	0.00473	1350	0.00350	J
PSMF-St2-M-111723	1123-014.2	0.1722	0.17	25	1	1	0.00436	1350	0.00323	ND
PSMF-St3-M-111723	1123-014.3	0.0869	0.09	25	1	1	0.00436	1350	0.00323	ND
PSMF-St4-M-111723	1123-014.4	0.1356	0.14	25	1	1	0.00436	1350	0.00323	ND
PSMF-St5-M-111723	1123-014.5	0.1327	0.13	25	1	1	0.00436	1350	0.00323	ND
Lab Blank	1123-014.LB	0.0253	0.03	25	1	1	0.00436			ND
Lab Control Spike	1123-014.LCS	408.1000	408.10	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	995.3000	995.30	25	1	100%	Rec.			
Post Digestion Duplicate	1123-014.2D	0.2122	0.21	25	1	NA	RPD			J

## Colbalt (228nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 0.53 µg/L  
 LOQ = 5 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	-0.0632	-0.06	25	1	1	0.0133	1350	0.00986	ND
PSMF-St2-M-111723	1123-014.2	0.0433	0.04	25	1	1	0.0133	1350	0.00986	ND
PSMF-St3-M-111723	1123-014.3	-0.1142	-0.11	25	1	1	0.0133	1350	0.00986	ND
PSMF-St4-M-111723	1123-014.4	-0.0434	-0.04	25	1	1	0.0133	1350	0.00986	ND
PSMF-St5-M-111723	1123-014.5	0.0617	0.06	25	1	1	0.0133	1350	0.00986	ND
Lab Blank	1123-014.LB	-0.2651	-0.27	25	1	1	0.0133			ND
Lab Control Spike	1123-014.LCS	410.4000	410.40	25	1	103%	Rec.			
Post Digestion Spike	1123-014.3S	1001.0000	1001.00	25	1	100%	Rec.			
Post Digestion Duplicate	1123-014.2D	-0.2171	-0.22	25	1	NA	RPD			ND

## Chromium (267nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 0.52 µg/L  
 LOQ = 2 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	9.9040	9.90	25	1	1	0.248	1350	0.183	
PSMF-St2-M-111723	1123-014.2	7.9880	7.99	25	1	1	0.200	1350	0.148	
PSMF-St3-M-111723	1123-014.3	6.3060	6.31	25	1	1	0.158	1350	0.117	
PSMF-St4-M-111723	1123-014.4	9.9250	9.93	25	1	1	0.248	1350	0.184	
PSMF-St5-M-111723	1123-014.5	7.5110	7.51	25	1	1	0.188	1350	0.139	
Lab Blank	1123-014.LB	0.3414	0.34	25	1	1	0.0130			ND
Lab Control Spike	1123-014.LCS	410.6000	410.60	25	1	103%	Rec.			
Post Digestion Spike	1123-014.3S	1015.0000	1015.00	25	1	101%	Rec.			
Post Digestion Duplicate	1123-014.2D	8.4380	8.44	25	1	5.5%	RPD			

## Copper (324nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 1.05 µg/L  
 LOQ = 10 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	6.3570	6.36	25	1	1	0.159	1350	0.118	J
PSMF-St2-M-111723	1123-014.2	3.5150	3.52	25	1	1	0.0879	1350	0.0651	J
PSMF-St3-M-111723	1123-014.3	3.4120	3.41	25	1	1	0.0853	1350	0.0632	J
PSMF-St4-M-111723	1123-014.4	3.5780	3.58	25	1	1	0.0895	1350	0.0663	J
PSMF-St5-M-111723	1123-014.5	3.4300	3.43	25	1	1	0.0858	1350	0.0635	J
Lab Blank	1123-014.LB	-0.1609	-0.16	25	1	1	0.0262			ND
Lab Control Spike	1123-014.LCS	408.9000	408.90	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	1014.0000	1014.00	25	1	101%	Rec.			
Post Digestion Duplicate	1123-014.2D	3.6650	3.67	25	1	4.2%	RPD			J

# Iron (259nm) in Filter

## ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 28.76 µg/L  
 LOQ = 50 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	79.6800	79.68	25	1	1	1.99	1350	1.48	
PSMF-St2-M-111723	1123-014.2	36.6000	36.60	25	1	1	0.915	1350	0.678	J
PSMF-St3-M-111723	1123-014.3	23.5700	23.57	25	1	1	0.719	1350	0.533	ND
PSMF-St4-M-111723	1123-014.4	484.6000	484.60	25	1	1	12.1	1350	8.97	
PSMF-St5-M-111723	1123-014.5	214.3000	214.30	25	1	1	5.36	1350	3.97	
Lab Blank	1123-014.LB	8.5380	8.54	25	1	1	0.719			ND
Lab Control Spike	1123-014.LCS	416.3000	416.30	25	1	104%	Rec.			
Post Digestion Spike	1123-014.3S	1036.0000	1036.00	25	1	104%	Rec.			
Post Digestion Duplicate	1123-014.2D	36.3500	36.35	25	1	0.7%	RPD			J

# Potassium (766nm) in Filter

## ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 5.00 µg/L  
 LOQ = 50 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	47.9500	47.95	25	1	1	1.20	1350	0.888	J
PSMF-St2-M-111723	1123-014.2	44.1300	44.13	25	1	1	1.10	1350	0.817	J
PSMF-St3-M-111723	1123-014.3	35.7500	35.75	25	1	1	0.894	1350	0.662	J
PSMF-St4-M-111723	1123-014.4	34.0100	34.01	25	1	1	0.850	1350	0.630	J
PSMF-St5-M-111723	1123-014.5	40.0600	40.06	25	1	1	1.00	1350	0.742	J
Lab Blank	1123-014.LB	4.5980	4.60	25	1	1	0.125			ND
Lab Control Spike	1123-014.LCS	405.2000	405.20	25	1	101%	Rec.			
Post Digestion Spike	1123-014.3S	1094.0000	1094.00	25	1	106%	Rec.			
Post Digestion Duplicate	1123-014.2D	27.0700	27.07	25	1	47.9%	RPD			J

## Magnesium (280nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 5.30 µg/L  
 LOQ = 50 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	24.1300	24.13	25	1	1	0.603	1350	0.447	J
PSMF-St2-M-111723	1123-014.2	18.3300	18.33	25	1	1	0.458	1350	0.339	J
PSMF-St3-M-111723	1123-014.3	21.9700	21.97	25	1	1	0.549	1350	0.407	J
PSMF-St4-M-111723	1123-014.4	19.9900	19.99	25	1	1	0.500	1350	0.370	J
PSMF-St5-M-111723	1123-014.5	19.6900	19.69	25	1	1	0.492	1350	0.365	J
Lab Blank	1123-014.LB	1.4070	1.41	25	1	1	0.132			ND
Lab Control Spike	1123-014.LCS	412.1000	412.10	25	1	103%	Rec.			
Post Digestion Spike	1123-014.3S	1028.0000	1028.00	25	1	101%	Rec.			
Post Digestion Duplicate	1123-014.2D	18.1500	18.15	25	1	1.0%	RPD			J



## Manganese (257nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 0.37 µg/L  
 LOQ = 2 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	3.0570	3.06	25	1	1	0.0764	1350	0.0566	
PSMF-St2-M-111723	1123-014.2	1.0990	1.10	25	1	1	0.0275	1350	0.0204	J
PSMF-St3-M-111723	1123-014.3	0.6629	0.66	25	1	1	0.0166	1350	0.0123	J
PSMF-St4-M-111723	1123-014.4	4.0330	4.03	25	1	1	0.101	1350	0.0747	
PSMF-St5-M-111723	1123-014.5	2.1410	2.14	25	1	1	0.0535	1350	0.0396	
Lab Blank	1123-014.LB	0.0532	0.05	25	1	1	0.00918			ND
Lab Control Spike	1123-014.LCS	409.8000	409.80	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	998.8000	998.80	25	1	100%	Rec.			
Post Digestion Duplicate	1123-014.2D	1.3320	1.33	25	1	19.2%	RPD			J

## Sodium (589nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 9.43 µg/L  
 LOQ = 50 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	377.1000	377.10	25	1	1	9.43	1350	6.98	
PSMF-St2-M-111723	1123-014.2	382.6000	382.60	25	1	1	9.57	1350	7.09	
PSMF-St3-M-111723	1123-014.3	376.1000	376.10	25	1	1	9.40	1350	6.96	
PSMF-St4-M-111723	1123-014.4	394.5000	394.50	25	1	1	9.86	1350	7.31	
PSMF-St5-M-111723	1123-014.5	340.0000	340.00	25	1	1	8.50	1350	6.30	
Lab Blank	1123-014.LB	-0.4461	-0.45	25	1	1	0.236			ND
Lab Control Spike	1123-014.LCS	389.6000	389.60	25	1	97.4%	Rec.			
Post Digestion Spike	1123-014.3S	1414.0000	1414.00	25	1	104%	Rec.			
Post Digestion Duplicate	1123-014.2D	343.0000	343.00	25	1	10.9%	RPD			

## Nickel (231nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 0.60 µg/L  
 LOQ = 5 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	1.2430	1.24	25	1	1	0.0311	1350	0.0230	J
PSMF-St2-M-111723	1123-014.2	1.1720	1.17	25	1	1	0.0293	1350	0.0217	J
PSMF-St3-M-111723	1123-014.3	1.3240	1.32	25	1	1	0.0331	1350	0.0245	J
PSMF-St4-M-111723	1123-014.4	1.5940	1.59	25	1	1	0.0399	1350	0.0295	J
PSMF-St5-M-111723	1123-014.5	1.6860	1.69	25	1	1	0.0422	1350	0.0312	J
Lab Blank	1123-014.LB	-0.1609	-0.16	25	1	1	0.0151			ND
Lab Control Spike	1123-014.LCS	409.6000	409.60	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	1004.0000	1004.00	25	1	100%	Rec.			
Post Digestion Duplicate	1123-014.2D	1.2490	1.25	25	1	6.4%	RPD			J

## Lead (220nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 2.72 µg/L  
 LOQ = 5 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	1.9760	1.98	25	1	1	0.0681	1350	0.0504	ND
PSMF-St2-M-111723	1123-014.2	-0.8117	-0.81	25	1	1	0.0681	1350	0.0504	ND
PSMF-St3-M-111723	1123-014.3	1.9830	1.98	25	1	1	0.0681	1350	0.0504	ND
PSMF-St4-M-111723	1123-014.4	0.0251	0.03	25	1	1	0.0681	1350	0.0504	ND
PSMF-St5-M-111723	1123-014.5	0.9092	0.91	25	1	1	0.0681	1350	0.0504	ND
Lab Blank	1123-014.LB	0.7722	0.77	25	1	1	0.0681			ND
Lab Control Spike	1123-014.LCS	405.8000	405.80	25	1	101%	Rec.			
Post Digestion Spike	1123-014.3S	997.8000	997.80	25	1	99.8%	Rec.			
Post Digestion Duplicate	1123-014.2D	0.3734	0.37	25	1	NA	RPD			ND

## Antimony (206nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 3.35 µg/L  
 LOQ = 10 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	0.8195	0.82	25	1	1	0.0837	1350	0.0620	ND
PSMF-St2-M-111723	1123-014.2	0.0182	0.02	25	1	1	0.0837	1350	0.0620	ND
PSMF-St3-M-111723	1123-014.3	-1.4040	-1.40	25	1	1	0.0837	1350	0.0620	ND
PSMF-St4-M-111723	1123-014.4	-0.2249	-0.22	25	1	1	0.0837	1350	0.0620	ND
PSMF-St5-M-111723	1123-014.5	-0.8444	-0.84	25	1	1	0.0837	1350	0.0620	ND
Lab Blank	1123-014.LB	-1.3200	-1.32	25	1	1	0.0837			ND
Lab Control Spike	1123-014.LCS	408.8000	408.80	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	1000.0000	1000.00	25	1	100%	Rec.			
Post Digestion Duplicate	1123-014.2D	-2.6100	-2.61	25	1	NA	RPD			ND

## Selenium (196nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 3.02 µg/L  
 LOQ = 10 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	0.3428	0.34	25	1	1	0.0755	1350	0.0559	ND
PSMF-St2-M-111723	1123-014.2	2.6130	2.61	25	1	1	0.0755	1350	0.0559	ND
PSMF-St3-M-111723	1123-014.3	2.2740	2.27	25	1	1	0.0755	1350	0.0559	ND
PSMF-St4-M-111723	1123-014.4	0.6972	0.70	25	1	1	0.0755	1350	0.0559	ND
PSMF-St5-M-111723	1123-014.5	1.3800	1.38	25	1	1	0.0755	1350	0.0559	ND
Lab Blank	1123-014.LB	-0.8491	-0.85	25	1	1	0.0755			ND
Lab Control Spike	1123-014.LCS	407.1000	407.10	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	1009.0000	1009.00	25	1	101%	Rec.			
Post Digestion Duplicate	1123-014.2D	0.2558	0.26	25	1	NA	RPD			ND

## Thallium (190nm) in Filter ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
EA Job #: 1123-014  
Analysis Date: 11/27/23  
Analyst: LMP

MDL = 1.51 µg/L  
LOQ = 10 µg/L  
LCS Conc. = 400 µg/L  
PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	-1.0870	-1.09	25	1	1	0.0378	1350	0.0280	ND
PSMF-St2-M-111723	1123-014.2	-0.7920	-0.79	25	1	1	0.0378	1350	0.0280	ND
PSMF-St3-M-111723	1123-014.3	-1.5610	-1.56	25	1	1	0.0378	1350	0.0280	ND
PSMF-St4-M-111723	1123-014.4	-1.8890	-1.89	25	1	1	0.0378	1350	0.0280	ND
PSMF-St5-M-111723	1123-014.5	0.0551	0.06	25	1	1	0.0378	1350	0.0280	ND
Lab Blank	1123-014.LB	0.2473	0.25	25	1	1	0.0378			ND
Lab Control Spike	1123-014.LCS	403.7000	403.70	25	1	101%	Rec.			
Post Digestion Spike	1123-014.3S	996.0000	996.00	25	1	99.6%	Rec.			
Post Digestion Duplicate	1123-014.2D	-1.0480	-1.05	25	1	NA	RPD			ND

# Vanadium (292nm) in Filter

## ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 1.00 µg/L  
 LOQ = 10 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	-0.2015	-0.20	25	1	1	0.0250	1350	0.0185	ND
PSMF-St2-M-111723	1123-014.2	-0.3315	-0.33	25	1	1	0.0250	1350	0.0185	ND
PSMF-St3-M-111723	1123-014.3	-0.2115	-0.21	25	1	1	0.0250	1350	0.0185	ND
PSMF-St4-M-111723	1123-014.4	-0.6127	-0.61	25	1	1	0.0250	1350	0.0185	ND
PSMF-St5-M-111723	1123-014.5	-0.1386	-0.14	25	1	1	0.0250	1350	0.0185	ND
Lab Blank	1123-014.LB	-0.2381	-0.24	25	1	1	0.0250			ND
Lab Control Spike	1123-014.LCS	410.6000	410.60	25	1	103%	Rec.			
Post Digestion Spike	1123-014.3S	1009.0000	1009.00	25	1	101%	Rec.			
Post Digestion Duplicate	1123-014.2D	-0.1187	-0.12	25	1	NA	RPD			ND



## Zinc (206nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 4.00 µg/L  
 LOQ = 40 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	27.6000	27.60	25	1	1	0.690	1350	0.511	J
PSMF-St2-M-111723	1123-014.2	14.9400	14.94	25	1	1	0.374	1350	0.277	J
PSMF-St3-M-111723	1123-014.3	5.7000	5.70	25	1	1	0.143	1350	0.106	J
PSMF-St4-M-111723	1123-014.4	15.8200	15.82	25	1	1	0.396	1350	0.293	J
PSMF-St5-M-111723	1123-014.5	19.4600	19.46	25	1	1	0.487	1350	0.360	J
Lab Blank	1123-014.LB	-4.0310	-4.03	25	1	1	0.100			ND
Lab Control Spike	1123-014.LCS	411.6000	411.60	25	1	103%	Rec.			
Post Digestion Spike	1123-014.3S	1013.0000	1013.00	25	1	101%	Rec.			
Post Digestion Duplicate	1123-014.2D	18.6100	18.61	25	1	21.9%	RPD			J

# Narrative Summary

## Enthalpy Analytical Narrative Summary

Company Job No. Client ID.	Tetra Tech, Inc. 1123-014 NIOSH 7303 Parker Street Mill Fire – Graham, NC
Custody	<p>Alyssa Miller received the samples on 11/17/23 and logged them in on 11/20/23 at ambient temperature after being relinquished by Tetra Tech, Inc. The samples were received in good condition.</p> <p>Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, LLC.</p>
Analysis	<p>The samples were prepared and analyzed for antimony, aluminum, arsenic, barium, beryllium, calcium, cadmium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, selenium, sodium, silver, thallium, vanadium, and zinc using the procedures in NIOSH Method 7303, Elements by ICP (Hot Block/HCl/HNO3 Digestion).</p> <p>The Inductively Coupled Plasma Optical Emission Spectrometer "O" was used for this analysis.</p>
Calibration	The calibration curves met all method-specified precision criteria.
QC Notes	<p>The analytes of interest were not identified at concentrations greater than the detection limit in the analysis of the laboratory blank.</p> <p>The Laboratory Control Spikes were within the acceptance limits of 80% to 120%.</p> <p>The Matrix Spike recovery values were within the acceptance range of 75% to 125%.</p>
Reporting Notes	<p>At the clients request, results are reported in concentration (ug/m3) using the gas volumes provided on the chain of custody.</p> <p>The results presented in this report are representative of the sample as provided to the laboratory.</p>

## General Reporting Notes

The following are general reporting notes that are applicable to all Enthalpy Analytical, LLC data reports, unless specifically noted otherwise.

- Any analysis which refers to the method as “**Type**” represents a planned deviation from the reference method. For instance a Hydrogen Sulfide assay from a Tedlar bag would be labeled as “EPA Method 16-Type” because Tedlar bags are not mentioned as one of the collection options in EPA Method 16.
- The acronym **MDL** represents the Minimum Detection Limit. Below this value the laboratory cannot determine the presence of the analyte of interest reliably.
- The acronym **LOQ** represents the Limit of Quantification. Below this value the laboratory cannot quantitate the analyte of interest within the criteria of the method.
- The acronym **ND** following a value indicates a non-detect or analytical result below the MDL.
- The letter **J** in the Qualifier or Flag column in the results indicates that the value is between the MDL and the LOQ. The laboratory can positively identify the analyte of interest as present, but the value should be considered an estimate.
- The letter **E** in the Qualifier or Flag column indicates an analytical result exceeding 100% of the highest calibration point. The associated value should be considered as an estimate.
- Sample results are presented ‘as measured’ for single injection methodologies, or an average value if multiple injections are made. If all injections are below the MDL, the sample is considered non-detect and the ND value is presented. If one, but not all, are below the MDL, the MDL value is used for any injections that are below the MDL. For example, if the MDL is 0.500 and LOQ is 1.00, and the instrument measures 0.355, 0.620, and 0.442 - the result reported is the average of 0.500, 0.620, and 0.500 - - - i.e. 0.540 with a J flag.
- When a spike recovery (Bag Spike, Collocated Spike Train, or liquid matrix spike) is being calculated, the native (unspiked) sample result is used in the calculations, as long as the value is above the MDL. If a sample is ND, then 0 is used as the native amount (not the MDL value).
- The acronym **DF** represents Dilution Factor. This number represents dilution of the sample during the preparation and/or analysis process. The analytical result taken from a laboratory instrument is multiplied by the DF to determine the final undiluted sample results.
- The addition of **MS** to the Sample ID represents a Matrix Spike. An aliquot of an actual sample is spiked with a known amount of analyte so that a percent recovery value can be determined. The MS analysis indicates what effect the sample matrix may have on the target analyte, i.e. whether or not anything in the sample matrix interferes with the analysis of the analyte(s).



## General Reporting Notes

(continued)

- The addition of **MSD** to the Sample ID represents a Matrix Spike Duplicate. Prepared in the same manner as a MS, the use of duplicate matrix spikes allows further confirmation of laboratory quality by showing the consistency of results gained by performing the same steps multiple times.
- The addition of **LD** to the Sample ID represents a Laboratory Duplicate. The analyst prepares an additional aliquot of sample for testing and the results of the duplicate analysis are compared to the initial result. The result should have a difference value of within 10% of the initial result (if the results of the original analysis are greater than the LOQ).
- The addition of **AD** to the Sample ID represents an Alternate Dilution. The analyst prepares an additional aliquot at a different dilution factor (usually double the initial factor). This analysis helps confirm that no additional compound is present and coeluting or sharing absorbance with the analyte of interest, as they would have a different response/absorbance than the analyte of interest.
- The Sample ID **LCS** represents a Laboratory Control Sample. Clean matrix, similar to the client sample matrix, prepared and analyzed by the laboratory using the same reagents, spiking standards and procedures used for the client samples. The LCS is used to assess the control of the laboratory's analytical system. Whenever spikes are prepared for our client projects, two spikes are retained as LCSs. The LCSs are labeled with the associated project number and kept in-house at the appropriate temperature conditions. When the project samples are received for analysis, the LCSs are analyzed to confirm that the analyte could be recovered from the media, separate from the samples which were used on the project and which may have been affected by source matrix, sample collection, and/or sample transport.
- **Significant Figures:** Where the reported value is much greater than unity (1.00) in the units expressed, the number is rounded to a whole number of units, rather than to 3 significant figures. For example, a value of 10,456.45 ug catch is rounded to 10,456 ug. There are five significant digits displayed, but no confidence should be placed on more than two significant digits. In the case of small numbers, generally 3 significant figures are presented, but still only 2 should be used with confidence. Many neat materials are only certified to 3 digits, and as the mathematically correct final result is always 1 digit less than all its pre-cursors - 2 significant figures are what are most defensible.
- **Manual Integration:** The data systems used for processing will flag manually integrated peaks with an "M". There are several reasons a peak may be manually integrated. These reasons will be identified by the following two letter designations on sample chromatograms, if provided in the report. The peak was *not integrated* by the software "**NI**", the peak was *integrated incorrectly* by the software "**II**" or the *wrong peak* was integrated by the software "**WP**". These codes will accompany the analyst's manual integration stamp placed next to the compound name on the chromatogram.



# Sample Custody





# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

## Special Handling:

- ☐ Standard Turn Around Time (10 business days)
- ☒ Rush Turn Around Time – Date Needed 24 hrs
- All TATs Subject to Approval by Enthalpy Analytical, Inc.
- All Bag/Can Samples Disposed of 1 Month from Receipt.
- All Other Samples Disposed of 4 Months from Receipt.

Client Name: Tetra Tech

Project Number: \_\_\_\_\_

PO#: \_\_\_\_\_

Project Manager: Jessica Vickers

Site Name: Parker Street Mill Fire

Telephone#: 678-775-3094

Report To: Jessica Vickers

Location: Graham, NC

Email: Jessica.vickers@tetra-tech.com

For spiked or duplicate samples: please provide sample volumes for recovery calculations.

For Particulates: please provide tare weights and/or condensed water volumes.

Special Instructions:

A=Air 1=H2SO4 2=NaOH 3=\_\_\_\_\_ 4=\_\_\_\_\_

X=XAD C=Charcoal SG=Silica Gel

G=Grab C=Composite Q=Quality Control

						Sample Containers							Analyses:							Notes:
Sample ID	Date	Time	Sample Volume	Type	Matrix	# of VOA Vials	# of Glass	# of Plastic	# of Bags	# of Canisters	# of Tubes	# Other	NiesH 7402 Asbestos as PCME	NiesH 7303 Metals as TAL						
PSMF-S12-A5-111623	11/16/23	2000	4000 L	Grab	Air							1	✓							
PSMF-S13-A5-111623	11/16/23	1938	4000 L	G	A							1	✓							
PSMF-S14-A5-111623	11/16/23	1955	4000 L	G	A							1	✓							
PSMF-S15-A5-111623	11/16/23	1930	4000 L	G	A							1	✓							
PSMF-S11-A5-111723	11/17/23	0719	4000 L	G	A							1	✓							
PSMF-S12-A5-111723	11/17/23	0706	4000 L	G	A							1	✓							Ambient temp good condition Bmm3 11-20-23
PSMF-S13-A5-111723	11/17/23	0734	4000 L	G	A							1	✓							
PSMF-S14-A5-111723	11/17/23	0726	4000 L	G	A							1	✓							
PSMF-S15-A5-111723	11/17/23	0711	4000 L	G	A							1	✓							
PSMF-S11-M-111723	11/17/23	0721	1350 L	G	A							1		✓						
PSMF-S12-M-111723	11/17/23	0704	1350 L	G	A							1		✓						
PSMF-S13-M-111723	11/17/23	0736	1350 L	G	A							1		✓						
PSMF-S14-M-111723	11/17/23	0728	1350 L	G	A							1		✓						
PSMF-S15-M-111723	11/17/23	0713	1350 L	G	A							1		✓						

Relinquished By: \_\_\_\_\_

Date: \_\_\_\_\_

Received By: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Sample Condition Upon Receipt:

☐ Iced ☒ Ambient ☐ °C \_\_\_\_\_

☐ Iced ☐ Ambient ☐ °C \_\_\_\_\_

☐ Iced ☐ Ambient ☐ °C \_\_\_\_\_

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**This Is The Last Page  
Of This Report.**



# Tetra Tech, Inc.

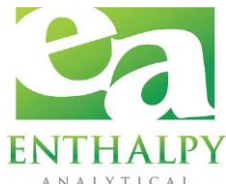
1955 Evergreen Blvd, Suite 300  
Duluth, GA 30096

## Parker Street Mill Fire *Graham, NC*

### Analytical Report (1123-014B\_R Level IV)

#### ***NIOSH Method 7303***

Antimony, Aluminum, Arsenic, Barium, Beryllium, Calcium, Cadmium,  
Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel,  
Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc



#### **Enthalpy Analytical, LLC**

Phone: (919) 850 - 4392 / Fax: (919) 850 - 9012 / [www.enthalpy.com](http://www.enthalpy.com)  
800-1 Capitola Drive Durham, NC 27713-4385

I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)

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AMCross

Report Issued: 2/8/24



# Summary of Results



## NIOSH 7303 Summary

EA Project #: 1123-014

Client: Tetra Tech, Inc.

Client Project ID: Parker Street Mill Fire - Graham, NC

### Element / Concentration (ug/m3)

Sample ID	Antimony	Aluminium	Arsenic	Barium	Beryllium	Calcium
PSMF-St1-M-111723	0.0620 ND	0.298 J	0.0398 ND	0.0393	0.00185 ND	3.47
PSMF-St2-M-111723	0.0620 ND	0.177 ND	0.0398 ND	0.0272 J	0.00185 ND	1.83
PSMF-St3-M-111723	0.0620 ND	0.226 J	0.0398 ND	0.0287 J	0.00185 ND	2.51
PSMF-St4-M-111723	0.0620 ND	0.177 ND	0.0398 ND	0.0200 J	0.00185 ND	2.21
PSMF-St5-M-111723	0.0620 ND	0.229 J	0.0398 ND	0.0350 J	0.00185 ND	2.90

Sample ID	Cadmium	Chromium	Cobalt	Copper	Iron	Lead
PSMF-St1-M-111723	0.00350 J	0.183	0.00986 ND	0.118 J	1.48	0.0504 ND
PSMF-St2-M-111723	0.00323 ND	0.148	0.00986 ND	0.0651 J	0.678 J	0.0504 ND
PSMF-St3-M-111723	0.00323 ND	0.117	0.00986 ND	0.0632 J	0.533 ND	0.0504 ND
PSMF-St4-M-111723	0.00323 ND	0.184	0.00986 ND	0.0663 J	8.97	0.0504 ND
PSMF-St5-M-111723	0.00323 ND	0.139	0.00986 ND	0.0635 J	3.97	0.0504 ND

Sample ID	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver
PSMF-St1-M-111723	0.447 J	0.0566	0.0230 J	0.888 J	0.0559 ND	0.0163 ND
PSMF-St2-M-111723	0.339 J	0.0204 J	0.0217 J	0.817 J	0.0559 ND	0.0163 ND
PSMF-St3-M-111723	0.407 J	0.0123 J	0.0245 J	0.662 J	0.0559 ND	0.0163 ND
PSMF-St4-M-111723	0.370 J	0.0747	0.0295 J	0.630 J	0.0559 ND	0.0163 ND
PSMF-St5-M-111723	0.365 J	0.0396	0.0312 J	0.742 J	0.0559 ND	0.0163 ND

Sample ID	Sodium	Thallium	Vanadium	Zinc
PSMF-St1-M-111723	6.98	0.0280 ND	0.0185 ND	0.511 J
PSMF-St2-M-111723	7.09	0.0280 ND	0.0185 ND	0.277 J
PSMF-St3-M-111723	6.96	0.0280 ND	0.0185 ND	0.106 J
PSMF-St4-M-111723	7.31	0.0280 ND	0.0185 ND	0.293 J
PSMF-St5-M-111723	6.30	0.0280 ND	0.0185 ND	0.360 J

# Results

## Silver (328nm) in Filter ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
EA Job #: 1123-014  
Analysis Date: 11/27/23  
Analyst: LMP

MDL = 0.88 µg/L  
LOQ = 5 µg/L  
LCS Conc. = 400 µg/L  
PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	-0.0759	-0.08	25	1	1	0.0221	1350	0.0163	ND
PSMF-St2-M-111723	1123-014.2	-0.0267	-0.03	25	1	1	0.0221	1350	0.0163	ND
PSMF-St3-M-111723	1123-014.3	0.1299	0.13	25	1	1	0.0221	1350	0.0163	ND
PSMF-St4-M-111723	1123-014.4	0.1913	0.19	25	1	1	0.0221	1350	0.0163	ND
PSMF-St5-M-111723	1123-014.5	-0.0002	0.00	25	1	1	0.0221	1350	0.0163	ND
Lab Blank	1123-014.LB	-0.1769	-0.18	25	1	1	0.0221			ND
Lab Control Spike	1123-014.LCS	408.5000	408.50	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	959.2000	959.20	25	1	95.9%	Rec.			
Post Digestion Duplicate	1123-014.2D	0.2331	0.23	25	1	NA	RPD			ND

# Aluminum (167nm) in Filter

## ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 9.56 µg/L  
 LOQ = 50 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	16.0700	16.07	25	1	1	0.402	1350	0.298	J
PSMF-St2-M-111723	1123-014.2	8.1550	8.16	25	1	1	0.239	1350	0.177	ND
PSMF-St3-M-111723	1123-014.3	12.1800	12.18	25	1	1	0.305	1350	0.226	J
PSMF-St4-M-111723	1123-014.4	8.9890	8.99	25	1	1	0.239	1350	0.177	ND
PSMF-St5-M-111723	1123-014.5	12.3900	12.39	25	1	1	0.310	1350	0.229	J
Lab Blank	1123-014.LB	2.5000	2.50	25	1	1	0.239			ND
Lab Control Spike	1123-014.LCS	420.7000	420.70	25	1	105%	Rec.			
Post Digestion Spike	1123-014.3S	1027.0000	1027.00	25	1	101%	Rec.			
Post Digestion Duplicate	1123-014.2D	7.7290	7.73	25	1	NA	RPD			ND

## Arsenic (193nm) in Filter ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
EA Job #: 1123-014  
Analysis Date: 11/27/23  
Analyst: LMP

MDL = 2.15 µg/L  
LOQ = 10 µg/L  
LCS Conc. = 400 µg/L  
PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	-1.0230	-1.02	25	1	1	0.0538	1350	0.0398	ND
PSMF-St2-M-111723	1123-014.2	0.2084	0.21	25	1	1	0.0538	1350	0.0398	ND
PSMF-St3-M-111723	1123-014.3	-1.7380	-1.74	25	1	1	0.0538	1350	0.0398	ND
PSMF-St4-M-111723	1123-014.4	0.6142	0.61	25	1	1	0.0538	1350	0.0398	ND
PSMF-St5-M-111723	1123-014.5	-1.1920	-1.19	25	1	1	0.0538	1350	0.0398	ND
Lab Blank	1123-014.LB	1.4300	1.43	25	1	1	0.0538			ND
Lab Control Spike	1123-014.LCS	406.6000	406.60	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	1001.0000	1001.00	25	1	100%	Rec.			
Post Digestion Duplicate	1123-014.2D	0.3429	0.34	25	1	NA	RPD			ND



## Barium (455nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 0.20 µg/L  
 LOQ = 2 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	2.1200	2.12	25	1	1	0.0530	1350	0.0393	
PSMF-St2-M-111723	1123-014.2	1.4690	1.47	25	1	1	0.0367	1350	0.0272	J
PSMF-St3-M-111723	1123-014.3	1.5510	1.55	25	1	1	0.0388	1350	0.0287	J
PSMF-St4-M-111723	1123-014.4	1.0780	1.08	25	1	1	0.0270	1350	0.0200	J
PSMF-St5-M-111723	1123-014.5	1.8920	1.89	25	1	1	0.0473	1350	0.0350	J
Lab Blank	1123-014.LB	0.0976	0.10	25	1	1	0.00500			ND
Lab Control Spike	1123-014.LCS	408.9000	408.90	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	1020.0000	1020.00	25	1	102%	Rec.			
Post Digestion Duplicate	1123-014.2D	1.8250	1.83	25	1	21.6%	RPD			J

## Beryllium (313nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 0.10 µg/L  
 LOQ = 1 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	0.0311	0.03	25	1	1	0.00250	1350	0.00185	ND
PSMF-St2-M-111723	1123-014.2	0.0134	0.01	25	1	1	0.00250	1350	0.00185	ND
PSMF-St3-M-111723	1123-014.3	0.0137	0.01	25	1	1	0.00250	1350	0.00185	ND
PSMF-St4-M-111723	1123-014.4	0.0290	0.03	25	1	1	0.00250	1350	0.00185	ND
PSMF-St5-M-111723	1123-014.5	0.0228	0.02	25	1	1	0.00250	1350	0.00185	ND
Lab Blank	1123-014.LB	0.0364	0.04	25	1	1	0.00250			ND
Lab Control Spike	1123-014.LCS	405.8000	405.80	25	1	101%	Rec.			
Post Digestion Spike	1123-014.3S	994.6000	994.60	25	1	99.5%	Rec.			
Post Digestion Duplicate	1123-014.2D	-0.0004	0.00	25	1	NA	RPD			ND

## Calcium (393nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 39.43 µg/L  
 LOQ = 50 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	187.2000	187.20	25	1	1	4.68	1350	3.47	
PSMF-St2-M-111723	1123-014.2	98.7400	98.74	25	1	1	2.47	1350	1.83	
PSMF-St3-M-111723	1123-014.3	135.6000	135.60	25	1	1	3.39	1350	2.51	
PSMF-St4-M-111723	1123-014.4	119.6000	119.60	25	1	1	2.99	1350	2.21	
PSMF-St5-M-111723	1123-014.5	156.6000	156.60	25	1	1	3.92	1350	2.90	
Lab Blank	1123-014.LB	26.0600	26.06	25	1	1	0.986			ND
Lab Control Spike	1123-014.LCS	439.5000	439.50	25	1	110% Rec.				
Post Digestion Spike	1123-014.3S	1182.0000	1182.00	25	1	105% Rec.				
Post Digestion Duplicate	1123-014.2D	98.9800	98.98	25	1	0.2% RPD				

## Cadmium (228nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 0.17 µg/L  
 LOQ = 1 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	0.1890	0.19	25	1	1	0.00473	1350	0.00350	J
PSMF-St2-M-111723	1123-014.2	0.1722	0.17	25	1	1	0.00436	1350	0.00323	ND
PSMF-St3-M-111723	1123-014.3	0.0869	0.09	25	1	1	0.00436	1350	0.00323	ND
PSMF-St4-M-111723	1123-014.4	0.1356	0.14	25	1	1	0.00436	1350	0.00323	ND
PSMF-St5-M-111723	1123-014.5	0.1327	0.13	25	1	1	0.00436	1350	0.00323	ND
Lab Blank	1123-014.LB	0.0253	0.03	25	1	1	0.00436			ND
Lab Control Spike	1123-014.LCS	408.1000	408.10	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	995.3000	995.30	25	1	100%	Rec.			
Post Digestion Duplicate	1123-014.2D	0.2122	0.21	25	1	NA	RPD			J

## Colbalt (228nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 0.53 µg/L  
 LOQ = 5 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	-0.0632	-0.06	25	1	1	0.0133	1350	0.00986	ND
PSMF-St2-M-111723	1123-014.2	0.0433	0.04	25	1	1	0.0133	1350	0.00986	ND
PSMF-St3-M-111723	1123-014.3	-0.1142	-0.11	25	1	1	0.0133	1350	0.00986	ND
PSMF-St4-M-111723	1123-014.4	-0.0434	-0.04	25	1	1	0.0133	1350	0.00986	ND
PSMF-St5-M-111723	1123-014.5	0.0617	0.06	25	1	1	0.0133	1350	0.00986	ND
Lab Blank	1123-014.LB	-0.2651	-0.27	25	1	1	0.0133			ND
Lab Control Spike	1123-014.LCS	410.4000	410.40	25	1	103%	Rec.			
Post Digestion Spike	1123-014.3S	1001.0000	1001.00	25	1	100%	Rec.			
Post Digestion Duplicate	1123-014.2D	-0.2171	-0.22	25	1	NA	RPD			ND

## Chromium (267nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 0.52 µg/L  
 LOQ = 2 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	9.9040	9.90	25	1	1	0.248	1350	0.183	
PSMF-St2-M-111723	1123-014.2	7.9880	7.99	25	1	1	0.200	1350	0.148	
PSMF-St3-M-111723	1123-014.3	6.3060	6.31	25	1	1	0.158	1350	0.117	
PSMF-St4-M-111723	1123-014.4	9.9250	9.93	25	1	1	0.248	1350	0.184	
PSMF-St5-M-111723	1123-014.5	7.5110	7.51	25	1	1	0.188	1350	0.139	
Lab Blank	1123-014.LB	0.3414	0.34	25	1	1	0.0130			ND
Lab Control Spike	1123-014.LCS	410.6000	410.60	25	1	103%	Rec.			
Post Digestion Spike	1123-014.3S	1015.0000	1015.00	25	1	101%	Rec.			
Post Digestion Duplicate	1123-014.2D	8.4380	8.44	25	1	5.5%	RPD			

## Copper (324nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 1.05 µg/L  
 LOQ = 10 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	6.3570	6.36	25	1	1	0.159	1350	0.118	J
PSMF-St2-M-111723	1123-014.2	3.5150	3.52	25	1	1	0.0879	1350	0.0651	J
PSMF-St3-M-111723	1123-014.3	3.4120	3.41	25	1	1	0.0853	1350	0.0632	J
PSMF-St4-M-111723	1123-014.4	3.5780	3.58	25	1	1	0.0895	1350	0.0663	J
PSMF-St5-M-111723	1123-014.5	3.4300	3.43	25	1	1	0.0858	1350	0.0635	J
Lab Blank	1123-014.LB	-0.1609	-0.16	25	1	1	0.0262			ND
Lab Control Spike	1123-014.LCS	408.9000	408.90	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	1014.0000	1014.00	25	1	101%	Rec.			
Post Digestion Duplicate	1123-014.2D	3.6650	3.67	25	1	4.2%	RPD			J

# Iron (259nm) in Filter

## ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 28.76 µg/L  
 LOQ = 50 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	79.6800	79.68	25	1	1	1.99	1350	1.48	
PSMF-St2-M-111723	1123-014.2	36.6000	36.60	25	1	1	0.915	1350	0.678	J
PSMF-St3-M-111723	1123-014.3	23.5700	23.57	25	1	1	0.719	1350	0.533	ND
PSMF-St4-M-111723	1123-014.4	484.6000	484.60	25	1	1	12.1	1350	8.97	
PSMF-St5-M-111723	1123-014.5	214.3000	214.30	25	1	1	5.36	1350	3.97	
Lab Blank	1123-014.LB	8.5380	8.54	25	1	1	0.719			ND
Lab Control Spike	1123-014.LCS	416.3000	416.30	25	1	104%	Rec.			
Post Digestion Spike	1123-014.3S	1036.0000	1036.00	25	1	104%	Rec.			
Post Digestion Duplicate	1123-014.2D	36.3500	36.35	25	1	0.7%	RPD			J



# Potassium (766nm) in Filter

## ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 5.00 µg/L  
 LOQ = 50 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	47.9500	47.95	25	1	1	1.20	1350	0.888	J
PSMF-St2-M-111723	1123-014.2	44.1300	44.13	25	1	1	1.10	1350	0.817	J
PSMF-St3-M-111723	1123-014.3	35.7500	35.75	25	1	1	0.894	1350	0.662	J
PSMF-St4-M-111723	1123-014.4	34.0100	34.01	25	1	1	0.850	1350	0.630	J
PSMF-St5-M-111723	1123-014.5	40.0600	40.06	25	1	1	1.00	1350	0.742	J
Lab Blank	1123-014.LB	4.5980	4.60	25	1	1	0.125			ND
Lab Control Spike	1123-014.LCS	405.2000	405.20	25	1	101%	Rec.			
Post Digestion Spike	1123-014.3S	1094.0000	1094.00	25	1	106%	Rec.			
Post Digestion Duplicate	1123-014.2D	27.0700	27.07	25	1	47.9%	RPD			J

## Magnesium (280nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 5.30 µg/L  
 LOQ = 50 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	24.1300	24.13	25	1	1	0.603	1350	0.447	J
PSMF-St2-M-111723	1123-014.2	18.3300	18.33	25	1	1	0.458	1350	0.339	J
PSMF-St3-M-111723	1123-014.3	21.9700	21.97	25	1	1	0.549	1350	0.407	J
PSMF-St4-M-111723	1123-014.4	19.9900	19.99	25	1	1	0.500	1350	0.370	J
PSMF-St5-M-111723	1123-014.5	19.6900	19.69	25	1	1	0.492	1350	0.365	J
Lab Blank	1123-014.LB	1.4070	1.41	25	1	1	0.132			ND
Lab Control Spike	1123-014.LCS	412.1000	412.10	25	1	103%	Rec.			
Post Digestion Spike	1123-014.3S	1028.0000	1028.00	25	1	101%	Rec.			
Post Digestion Duplicate	1123-014.2D	18.1500	18.15	25	1	1.0%	RPD			J

## Manganese (257nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 0.37 µg/L  
 LOQ = 2 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	3.0570	3.06	25	1	1	0.0764	1350	0.0566	
PSMF-St2-M-111723	1123-014.2	1.0990	1.10	25	1	1	0.0275	1350	0.0204	J
PSMF-St3-M-111723	1123-014.3	0.6629	0.66	25	1	1	0.0166	1350	0.0123	J
PSMF-St4-M-111723	1123-014.4	4.0330	4.03	25	1	1	0.101	1350	0.0747	
PSMF-St5-M-111723	1123-014.5	2.1410	2.14	25	1	1	0.0535	1350	0.0396	
Lab Blank	1123-014.LB	0.0532	0.05	25	1	1	0.00918			ND
Lab Control Spike	1123-014.LCS	409.8000	409.80	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	998.8000	998.80	25	1	100%	Rec.			
Post Digestion Duplicate	1123-014.2D	1.3320	1.33	25	1	19.2%	RPD			J

## Sodium (589nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 9.43 µg/L  
 LOQ = 50 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	377.1000	377.10	25	1	1	9.43	1350	6.98	
PSMF-St2-M-111723	1123-014.2	382.6000	382.60	25	1	1	9.57	1350	7.09	
PSMF-St3-M-111723	1123-014.3	376.1000	376.10	25	1	1	9.40	1350	6.96	
PSMF-St4-M-111723	1123-014.4	394.5000	394.50	25	1	1	9.86	1350	7.31	
PSMF-St5-M-111723	1123-014.5	340.0000	340.00	25	1	1	8.50	1350	6.30	
Lab Blank	1123-014.LB	-0.4461	-0.45	25	1	1	0.236			ND
Lab Control Spike	1123-014.LCS	389.6000	389.60	25	1	97.4%	Rec.			
Post Digestion Spike	1123-014.3S	1414.0000	1414.00	25	1	104%	Rec.			
Post Digestion Duplicate	1123-014.2D	343.0000	343.00	25	1	10.9%	RPD			

## Nickel (231nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 0.60 µg/L  
 LOQ = 5 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	1.2430	1.24	25	1	1	0.0311	1350	0.0230	J
PSMF-St2-M-111723	1123-014.2	1.1720	1.17	25	1	1	0.0293	1350	0.0217	J
PSMF-St3-M-111723	1123-014.3	1.3240	1.32	25	1	1	0.0331	1350	0.0245	J
PSMF-St4-M-111723	1123-014.4	1.5940	1.59	25	1	1	0.0399	1350	0.0295	J
PSMF-St5-M-111723	1123-014.5	1.6860	1.69	25	1	1	0.0422	1350	0.0312	J
Lab Blank	1123-014.LB	-0.1609	-0.16	25	1	1	0.0151			ND
Lab Control Spike	1123-014.LCS	409.6000	409.60	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	1004.0000	1004.00	25	1	100%	Rec.			
Post Digestion Duplicate	1123-014.2D	1.2490	1.25	25	1	6.4%	RPD			J

## Lead (220nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 2.72 µg/L  
 LOQ = 5 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	1.9760	1.98	25	1	1	0.0681	1350	0.0504	ND
PSMF-St2-M-111723	1123-014.2	-0.8117	-0.81	25	1	1	0.0681	1350	0.0504	ND
PSMF-St3-M-111723	1123-014.3	1.9830	1.98	25	1	1	0.0681	1350	0.0504	ND
PSMF-St4-M-111723	1123-014.4	0.0251	0.03	25	1	1	0.0681	1350	0.0504	ND
PSMF-St5-M-111723	1123-014.5	0.9092	0.91	25	1	1	0.0681	1350	0.0504	ND
Lab Blank	1123-014.LB	0.7722	0.77	25	1	1	0.0681			ND
Lab Control Spike	1123-014.LCS	405.8000	405.80	25	1	101%	Rec.			
Post Digestion Spike	1123-014.3S	997.8000	997.80	25	1	99.8%	Rec.			
Post Digestion Duplicate	1123-014.2D	0.3734	0.37	25	1	NA	RPD			ND

## Antimony (206nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 3.35 µg/L  
 LOQ = 10 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	0.8195	0.82	25	1	1	0.0837	1350	0.0620	ND
PSMF-St2-M-111723	1123-014.2	0.0182	0.02	25	1	1	0.0837	1350	0.0620	ND
PSMF-St3-M-111723	1123-014.3	-1.4040	-1.40	25	1	1	0.0837	1350	0.0620	ND
PSMF-St4-M-111723	1123-014.4	-0.2249	-0.22	25	1	1	0.0837	1350	0.0620	ND
PSMF-St5-M-111723	1123-014.5	-0.8444	-0.84	25	1	1	0.0837	1350	0.0620	ND
Lab Blank	1123-014.LB	-1.3200	-1.32	25	1	1	0.0837			ND
Lab Control Spike	1123-014.LCS	408.8000	408.80	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	1000.0000	1000.00	25	1	100%	Rec.			
Post Digestion Duplicate	1123-014.2D	-2.6100	-2.61	25	1	NA	RPD			ND

## Selenium (196nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 3.02 µg/L  
 LOQ = 10 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	0.3428	0.34	25	1	1	0.0755	1350	0.0559	ND
PSMF-St2-M-111723	1123-014.2	2.6130	2.61	25	1	1	0.0755	1350	0.0559	ND
PSMF-St3-M-111723	1123-014.3	2.2740	2.27	25	1	1	0.0755	1350	0.0559	ND
PSMF-St4-M-111723	1123-014.4	0.6972	0.70	25	1	1	0.0755	1350	0.0559	ND
PSMF-St5-M-111723	1123-014.5	1.3800	1.38	25	1	1	0.0755	1350	0.0559	ND
Lab Blank	1123-014.LB	-0.8491	-0.85	25	1	1	0.0755			ND
Lab Control Spike	1123-014.LCS	407.1000	407.10	25	1	102%	Rec.			
Post Digestion Spike	1123-014.3S	1009.0000	1009.00	25	1	101%	Rec.			
Post Digestion Duplicate	1123-014.2D	0.2558	0.26	25	1	NA	RPD			ND



## Thallium (190nm) in Filter ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
EA Job #: 1123-014  
Analysis Date: 11/27/23  
Analyst: LMP

MDL = 1.51 µg/L  
LOQ = 10 µg/L  
LCS Conc. = 400 µg/L  
PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	-1.0870	-1.09	25	1	1	0.0378	1350	0.0280	ND
PSMF-St2-M-111723	1123-014.2	-0.7920	-0.79	25	1	1	0.0378	1350	0.0280	ND
PSMF-St3-M-111723	1123-014.3	-1.5610	-1.56	25	1	1	0.0378	1350	0.0280	ND
PSMF-St4-M-111723	1123-014.4	-1.8890	-1.89	25	1	1	0.0378	1350	0.0280	ND
PSMF-St5-M-111723	1123-014.5	0.0551	0.06	25	1	1	0.0378	1350	0.0280	ND
Lab Blank	1123-014.LB	0.2473	0.25	25	1	1	0.0378			ND
Lab Control Spike	1123-014.LCS	403.7000	403.70	25	1	101%	Rec.			
Post Digestion Spike	1123-014.3S	996.0000	996.00	25	1	99.6%	Rec.			
Post Digestion Duplicate	1123-014.2D	-1.0480	-1.05	25	1	NA	RPD			ND

# Vanadium (292nm) in Filter

## ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 1.00 µg/L  
 LOQ = 10 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	-0.2015	-0.20	25	1	1	0.0250	1350	0.0185	ND
PSMF-St2-M-111723	1123-014.2	-0.3315	-0.33	25	1	1	0.0250	1350	0.0185	ND
PSMF-St3-M-111723	1123-014.3	-0.2115	-0.21	25	1	1	0.0250	1350	0.0185	ND
PSMF-St4-M-111723	1123-014.4	-0.6127	-0.61	25	1	1	0.0250	1350	0.0185	ND
PSMF-St5-M-111723	1123-014.5	-0.1386	-0.14	25	1	1	0.0250	1350	0.0185	ND
Lab Blank	1123-014.LB	-0.2381	-0.24	25	1	1	0.0250			ND
Lab Control Spike	1123-014.LCS	410.6000	410.60	25	1	103%	Rec.			
Post Digestion Spike	1123-014.3S	1009.0000	1009.00	25	1	101%	Rec.			
Post Digestion Duplicate	1123-014.2D	-0.1187	-0.12	25	1	NA	RPD			ND

## Zinc (206nm) in Filter

### ICP CALCULATION WORKSHEET

Client: Tetra Tech, Inc.  
 EA Job #: 1123-014  
 Analysis Date: 11/27/23  
 Analyst: LMP

MDL = 4.00 µg/L  
 LOQ = 40 µg/L  
 LCS Conc. = 400 µg/L  
 PDS Conc. = 1000 µg/L

Sample ID		Test Sol'n (µg/L)	Dig'te Conc (µg/L)	FV (mL)	Dilution Factor	Filter Aliquot Factor	Filter Total (µg)	Gas Vol (L)	Conc. (ug/m3)	Flag
PSMF-St1-M-111723	1123-014.1	27.6000	27.60	25	1	1	0.690	1350	0.511	J
PSMF-St2-M-111723	1123-014.2	14.9400	14.94	25	1	1	0.374	1350	0.277	J
PSMF-St3-M-111723	1123-014.3	5.7000	5.70	25	1	1	0.143	1350	0.106	J
PSMF-St4-M-111723	1123-014.4	15.8200	15.82	25	1	1	0.396	1350	0.293	J
PSMF-St5-M-111723	1123-014.5	19.4600	19.46	25	1	1	0.487	1350	0.360	J
Lab Blank	1123-014.LB	-4.0310	-4.03	25	1	1	0.100			ND
Lab Control Spike	1123-014.LCS	411.6000	411.60	25	1	103%	Rec.			
Post Digestion Spike	1123-014.3S	1013.0000	1013.00	25	1	101%	Rec.			
Post Digestion Duplicate	1123-014.2D	18.6100	18.61	25	1	21.9%	RPD			J

# Narrative Summary

## Enthalpy Analytical Narrative Summary

Company Job No. Client ID.	Tetra Tech, Inc. 1123-014 NIOSH 7303 Parker Street Mill Fire – Graham, NC
Custody	<p>Alyssa Miller received the samples on 11/17/23 and logged them in on 11/20/23 at ambient temperature after being relinquished by Tetra Tech, Inc. The samples were received in good condition.</p> <p>Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, LLC.</p>
Analysis	<p>The samples were prepared and analyzed for antimony, aluminum, arsenic, barium, beryllium, calcium, cadmium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, selenium, sodium, silver, thallium, vanadium, and zinc using the procedures in NIOSH Method 7303, Elements by ICP (Hot Block/HCl/HNO3 Digestion).</p> <p>The Inductively Coupled Plasma Optical Emission Spectrometer "O" was used for this analysis.</p>
Calibration	The calibration curves met all method-specified precision criteria.
QC Notes	<p>The analytes of interest were not identified at concentrations greater than the detection limit in the analysis of the laboratory blank.</p> <p>The Laboratory Control Spikes were within the acceptance limits of 80% to 120%.</p> <p>The Matrix Spike recovery values were within the acceptance range of 75% to 125%.</p>
Reporting Notes	<p>At the clients request, results are reported in concentration (ug/m3) using the gas volumes provided on the chain of custody.</p> <p>The results presented in this report are representative of the sample as provided to the laboratory.</p>

## General Reporting Notes

The following are general reporting notes that are applicable to all Enthalpy Analytical, LLC data reports, unless specifically noted otherwise.

- Any analysis which refers to the method as “**Type**” represents a planned deviation from the reference method. For instance a Hydrogen Sulfide assay from a Tedlar bag would be labeled as “EPA Method 16-Type” because Tedlar bags are not mentioned as one of the collection options in EPA Method 16.
- The acronym **MDL** represents the Minimum Detection Limit. Below this value the laboratory cannot determine the presence of the analyte of interest reliably.
- The acronym **LOQ** represents the Limit of Quantification. Below this value the laboratory cannot quantitate the analyte of interest within the criteria of the method.
- The acronym **ND** following a value indicates a non-detect or analytical result below the MDL.
- The letter **J** in the Qualifier or Flag column in the results indicates that the value is between the MDL and the LOQ. The laboratory can positively identify the analyte of interest as present, but the value should be considered an estimate.
- The letter **E** in the Qualifier or Flag column indicates an analytical result exceeding 100% of the highest calibration point. The associated value should be considered as an estimate.
- Sample results are presented ‘as measured’ for single injection methodologies, or an average value if multiple injections are made. If all injections are below the MDL, the sample is considered non-detect and the ND value is presented. If one, but not all, are below the MDL, the MDL value is used for any injections that are below the MDL. For example, if the MDL is 0.500 and LOQ is 1.00, and the instrument measures 0.355, 0.620, and 0.442 - the result reported is the average of 0.500, 0.620, and 0.500 - - - i.e. 0.540 with a J flag.
- When a spike recovery (Bag Spike, Collocated Spike Train, or liquid matrix spike) is being calculated, the native (unspiked) sample result is used in the calculations, as long as the value is above the MDL. If a sample is ND, then 0 is used as the native amount (not the MDL value).
- The acronym **DF** represents Dilution Factor. This number represents dilution of the sample during the preparation and/or analysis process. The analytical result taken from a laboratory instrument is multiplied by the DF to determine the final undiluted sample results.
- The addition of **MS** to the Sample ID represents a Matrix Spike. An aliquot of an actual sample is spiked with a known amount of analyte so that a percent recovery value can be determined. The MS analysis indicates what effect the sample matrix may have on the target analyte, i.e. whether or not anything in the sample matrix interferes with the analysis of the analyte(s).



## General Reporting Notes

(continued)

- The addition of **MSD** to the Sample ID represents a Matrix Spike Duplicate. Prepared in the same manner as a MS, the use of duplicate matrix spikes allows further confirmation of laboratory quality by showing the consistency of results gained by performing the same steps multiple times.
- The addition of **LD** to the Sample ID represents a Laboratory Duplicate. The analyst prepares an additional aliquot of sample for testing and the results of the duplicate analysis are compared to the initial result. The result should have a difference value of within 10% of the initial result (if the results of the original analysis are greater than the LOQ).
- The addition of **AD** to the Sample ID represents an Alternate Dilution. The analyst prepares an additional aliquot at a different dilution factor (usually double the initial factor). This analysis helps confirm that no additional compound is present and coeluting or sharing absorbance with the analyte of interest, as they would have a different response/absorbance than the analyte of interest.
- The Sample ID **LCS** represents a Laboratory Control Sample. Clean matrix, similar to the client sample matrix, prepared and analyzed by the laboratory using the same reagents, spiking standards and procedures used for the client samples. The LCS is used to assess the control of the laboratory's analytical system. Whenever spikes are prepared for our client projects, two spikes are retained as LCSs. The LCSs are labeled with the associated project number and kept in-house at the appropriate temperature conditions. When the project samples are received for analysis, the LCSs are analyzed to confirm that the analyte could be recovered from the media, separate from the samples which were used on the project and which may have been affected by source matrix, sample collection, and/or sample transport.
- **Significant Figures:** Where the reported value is much greater than unity (1.00) in the units expressed, the number is rounded to a whole number of units, rather than to 3 significant figures. For example, a value of 10,456.45 ug catch is rounded to 10,456 ug. There are five significant digits displayed, but no confidence should be placed on more than two significant digits. In the case of small numbers, generally 3 significant figures are presented, but still only 2 should be used with confidence. Many neat materials are only certified to 3 digits, and as the mathematically correct final result is always 1 digit less than all its pre-cursors - 2 significant figures are what are most defensible.
- **Manual Integration:** The data systems used for processing will flag manually integrated peaks with an "M". There are several reasons a peak may be manually integrated. These reasons will be identified by the following two letter designations on sample chromatograms, if provided in the report. The peak was *not integrated* by the software "**NI**", the peak was *integrated incorrectly* by the software "**II**" or the *wrong peak* was integrated by the software "**WP**". These codes will accompany the analyst's manual integration stamp placed next to the compound name on the chromatogram.



# Sample Custody





# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

## Special Handling:

- ☐ Standard Turn Around Time (10 business days)
- ☒ Rush Turn Around Time – Date Needed 24 hrs
- All TATs Subject to Approval by Enthalpy Analytical, Inc.
- All Bag/Can Samples Disposed of 1 Month from Receipt.
- All Other Samples Disposed of 4 Months from Receipt.

Client Name: Tetra Tech

Project Number: \_\_\_\_\_

PO#: \_\_\_\_\_

Project Manager: Jessica Vickers

Site Name: Parker Street Mill Fire

Telephone#: 678-775-3094

Report To: Jessica Vickers

Location: Graham, NC

Email: Jessica.vickers@tetra-tech.com

For spiked or duplicate samples: please provide sample volumes for recovery calculations.

For Particulates: please provide tare weights and/or condensed water volumes.

Special Instructions:

A=Air 1=H2SO4 2=NaOH 3=\_\_\_\_\_ 4=\_\_\_\_\_

X=XAD C=Charcoal SG=Silica Gel

G=Grab C=Composite Q=Quality Control

						Sample Containers							Analyses:							Notes:
Sample ID	Date	Time	Sample Volume	Type	Matrix	# of VOA Vials	# of Glass	# of Plastic	# of Bags	# of Canisters	# of Tubes	# Other	NiesH 7402 Asbestos as PCME	NiesH 7303 Metals as TAL						
PSMF-S12-A5-111623	11/16/23	2000	4000 L	Grab	Air							1	✓							
PSMF-S13-A5-111623	11/16/23	1938	4000 L	G	A							1	✓							
PSMF-S14-A5-111623	11/16/23	1955	4000 L	G	A							1	✓							
PSMF-S15-A5-111623	11/16/23	1930	4000 L	G	A							1	✓							
PSMF-S11-A5-111723	11/17/23	0719	4000 L	G	A							1	✓							
PSMF-S12-A5-111723	11/17/23	0706	4000 L	G	A							1	✓							Ambient temp good condition Bmm3 11-20-23
PSMF-S13-A5-111723	11/17/23	0734	4000 L	G	A							1	✓							
PSMF-S14-A5-111723	11/17/23	0726	4000 L	G	A							1	✓							
PSMF-S15-A5-111723	11/17/23	0711	4000 L	G	A							1	✓							
PSMF-S11-M-111723	11/17/23	0721	1350 L	G	A							1		✓						
PSMF-S12-M-111723	11/17/23	0704	1350 L	G	A							1		✓						
PSMF-S13-M-111723	11/17/23	0736	1350 L	G	A							1		✓						
PSMF-S14-M-111723	11/17/23	0728	1350 L	G	A							1		✓						
PSMF-S15-M-111723	11/17/23	0713	1350 L	G	A							1		✓						

Relinquished By: \_\_\_\_\_

Date: \_\_\_\_\_

Received By: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Sample Condition Upon Receipt:

☐ Iced ☒ Ambient ☐ °C \_\_\_\_\_

☐ Iced ☐ Ambient ☐ °C \_\_\_\_\_

☐ Iced ☐ Ambient ☐ °C \_\_\_\_\_

800-1 Capitola Drive • Durham, NC 27713 • (919) 850-4392 • FAX (919) 850-9012 • www.enthalpy.com

# Additional Information



Analyst: LMP

Date: 11/27/23

Job #s

1123-014

Describe Work Documented on This Page

NIOSH 7303

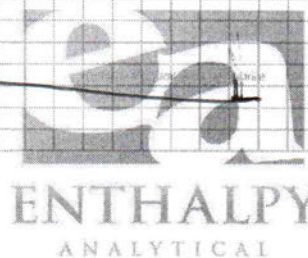
Supplies, Ancillary Equipment  
Serial #s, Lot #s, Etc

1911A = m NIOSH 7303 prep page

LMP 11/27/23

Reviewer's Initials & Date:

Metals Prep  
page 1911



1911A



# NIOSH 7303 Prep Sheet

Date: 11/27/23

Analyst(s): Lmp

## Reagents

Nitric Acid

ID: 63076 exp: 11/24

Hydrochloric Acid

ID: 62225 exp: 11/24

## Samples

Sample ID

Final Vol. (mL)

1123-014.1

25

.2

.3

.4

.5

## Support Equipment

Digitube ID #

J506384-4932

HotPlate #

9

Conc. HNO<sub>3</sub> Pip # & Exp

154

11/24/24

Conc. HCl Pip # &amp; Exp

1

1

LCS/MS Pip # &amp; Exp

126

11/2/24

Comments:

- ① post digestion spike + duplicate will be performed Lmp 11/27/23

## Quality Control

QC Sample	Sample ID	Spike ID	Spike Conc.	Final Vol. (mL)	Volume Added (mL)
MB	N/A	N/A	N/A	25	N/A
LCS	N/A	F0864	100 ppm	1	0.1
MS					
DUP		N/A	N/A		N/A



## ICP-OES Raw Data Coversheet

Doc. No.: RD03

Rev.:H

Effective Date: 08-10-23

Instrument O/ Tuco

Analyst(s): <u>LMP</u>		Analysis Date(s): <u>11/27/23</u>						
EA Project #: <u>1123-014</u>								
Analytes & λ's: <u>Ag Al As Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Na Ni Pb Sb Se Ti V Zn</u>								
Method: <u>6010</u>		Internal Std ID: <u>ES-1078</u> Conc: <u>1 ppm Sc</u> Exp: <u>5/22/24</u>						
Diluent: <u>50</u> mL HNO <sub>3</sub> ID# <u>63076</u> Exp: <u>11/24</u>								
<u>50</u> mL HCl ID# <u>62225</u> Exp: <u>11/24</u>								
<u>      </u> mL HF ID# <u>      </u> Exp: <u>      </u>								
DILUTED TO <u>1000</u> mL WITH DI WATER								
CalBlk/ICB/CCB: Diluent								
EA ID'S	Std ID's:		ICV/CCV ID:					
	Conc.'s:		Conc:					
	Exp Dates:		Exp Date:					
Use table below for freshly prepared standards (NO ID's):								
Calibration Standards - Made from Working Std EA ID#: <u>F0864</u> (Stock Concentration: <u>100 ppm</u> Exp Date: <u>6/24</u> ) and brought up with Diluent								
	Final Conc. (ppb)	Amount WS (μL)	Pipette # & Exp:	Final Vol (mL)	Pipette # & Exp:	Analyst	Date	Exp.:
Standard 1	1	50 Std 9	132 12/11/23	50	NA	LMP	11/27/23	11/28/23
Standard 2	2	100	1					
Standard 3	5	250	124 11/16/24					
Standard 4	10	500	1					
Standard 5	40	2mL	142 11/20/24					
Standard 6	50	2.5mL	1					
Standard 7	100	50	132 12/11/23					
Standard 8	200	100	1					
Standard 9	1000	500	124 11/16/24					
Standard 10	2000	1000	1					
Secondary Standard - Made from Working Std EA ID#: <u>F0871 + ①</u> (Stock Concentration: <u>100 ppm + ①</u> Exp Date: <u>8/24 + ①</u> ) and brought up with Diluent <span style="float: right;">EE LMP 11-27-23</span>								
	Final Conc. (ppb)	Amount WS (μL)	Pipette # & Exp:	Final Vol (mL)	Pipette # & Exp:	Analyst	Date	Exp.:
ICV/CCV	1000	5000 + 50 ①	142 11/20/24	50	NA	LMP	11/27/23	11/28/23
ICS's-Made from Stock Std ICS-A ID#( <u>F0849</u> Exp: <u>4/13/24</u> ) & Metals Std ID#( <u>F0864</u> Conc: <u>100 ppm</u> Exp: <u>6/24</u> ) brought up with Diluent								
	Conc.	Amount WS (μL)	Pipette # & Exp:	Final Vol (mL)	Pipette # & Exp:	Analyst	Date	Exp.:
ICS-A	Multi	50	132 12/11/23	10	142 11/20/24	LMP	11/27/23	11/28/23
ICS-AB	Multi	1	1					
	1 ppm	100	1					

① See back. LMP 11/27/23

Controlled Document

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# ICP-OES Raw Data Coversheet

## Instrument O / Tuco

Doc. No.: RD03  
Rev.:H  
Effective Date: 08-10-23

Post Dig Matrix Spike Samples - Diluted with Diluent (Metals Mix ID# <u>F0864</u> Conc: <u>100 ppm</u> Exp: <u>6/24</u> )								
Sample ID	Dilution Factor of Field Sample	Aliquot of Sample (mL)	Final Conc. (ppb)	Amount of Spike Added (μL)	Pipette # & Exp:	Final Vol (mL)	Pipette # & Exp:	Analyst
1123-014.3 ②	—	9.9	1000	100	132 12/11/23	10	142 1/20/24	LMP
						10		
						10		
						10		
						10		
						10		
						10		
						10		
						10		
						10		
						10		

Sample Dilution Tracker - Diluted with Diluent						
Sample ID (s)	Dilution Factor of Sample	Aliquot of Sample (mL)	Pipette # & Exp:	Final Vol (mL)	Pipette # & Exp:	Analyst

### Comments:

LCS was inadvertently prepped @ 400 ppb. LMP 11/21/23

### ① Second Source Check:

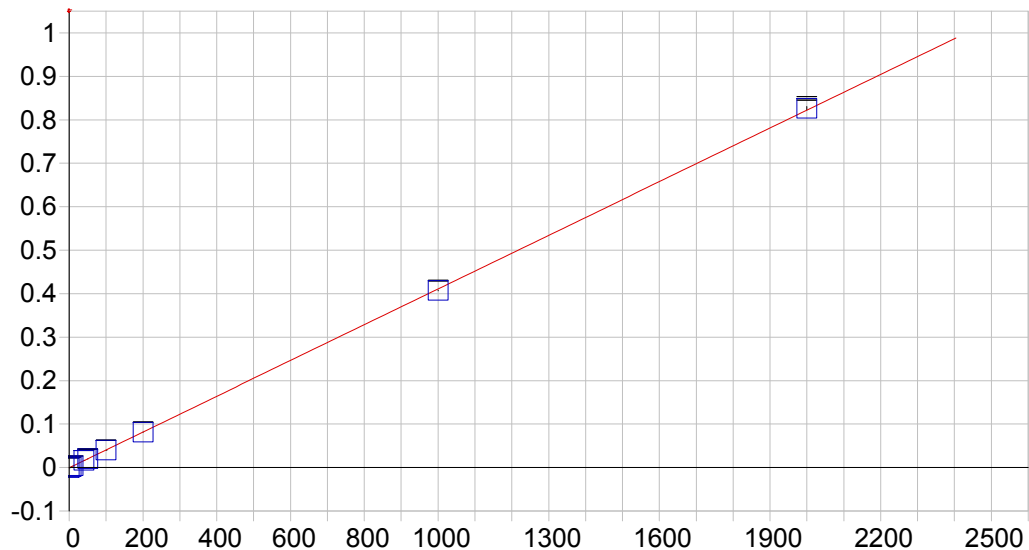
Stock conc	element	ID	exp	vol added	pip:	pip exp:
1000 ppm	Ca	F0699	9/25	50 μL	132	12/11/23
	Na	F0715	7/26			
	Mg	F0841	6/29			
	Fe	F0644	11/26			
	V	F0681	7/25			

② Had to utilize sample 3 for ms due to lack of solution from 1123-014.1



	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status
	Ag 328.068 {103}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	-0.000558	0.000411	0.000000	1.000000	0.999972	0.000014	0.527680	1.758932	OK.
	Ag 338.289 {100}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000201	0.000251	0.000000	1.000000	0.999767	0.000025	0.873921	2.913071	OK.
	Al 167.079 {502}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000344	0.000022	0.000000	1.000000	0.999936	0.000004	0.432095	1.440316	OK.
	Al 308.215 {109}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.030475	0.000012	0.000000	1.000000	0.997650	0.000013	19.021097	63.403656	OK.
	Al 309.271 {109}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.043900	0.000053	0.000000	1.000000	0.892989	0.000425	6.652334	22.174448	OK.
	As 189.042 {479}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	-0.000059	0.000012	0.000000	1.000000	0.999961	0.000001	1.518083	5.060276	OK.
	As 193.759 {474}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	-0.000029	0.000014	0.000000	1.000000	0.999943	0.000001	1.595039	5.316798	OK.
	Ba 455.403 { 74}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.014014	0.020915	0.000000	1.000000	0.999982	0.000361	0.026145	0.087152	OK.
	Be 313.042 {108}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.003814	0.013806	0.000000	1.000000	0.999995	0.000086	0.014915	0.049717	OK.
	Ca 317.933 {106}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.009951	0.000436	0.000000	1.000000	0.998518	0.000377	0.503703	1.679010	OK.
	Ca 393.366 { 86}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	1.275930	0.052936	0.000000	1.000000	0.998781	0.041423	0.006407	0.021357	OK.
	Ca 396.847 { 85}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.818718	0.033969	0.000000	1.000000	0.998667	0.027798	0.013255	0.044184	OK.
	Cd 214.438 {457}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000672	0.000619	0.000000	1.000000	0.784407	0.000706	0.052861	0.176205	OK.
	Cd 228.802 {447}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000083	0.000235	0.000000	1.000000	0.999959	0.000004	0.163502	0.545007	OK.
	Co 228.616 {448}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	-0.000049	0.000128	0.000000	1.000000	0.999974	0.000004	0.239216	0.797386	OK.
	Co 238.892 {141}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000227	0.000189	0.000000	1.000000	0.999981	0.000006	0.522819	1.742730	OK.
	Cr 267.716 {126}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000394	0.000317	0.000000	1.000000	0.999973	0.000007	0.420175	1.400583	OK.
	Cu 324.754 {104}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.002739	0.000638	0.000000	1.000000	0.999971	0.000033	0.352904	1.176348	OK.
	Cu 327.396 {103}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	-0.003338	0.000369	0.000000	1.000000	0.999978	0.000016	0.663308	2.211026	OK.
	Fe 238.204 {142}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000227	0.000184	0.000000	1.000000	0.999994	0.000010	0.436476	1.454920	OK.
	Fe 239.562 {141}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000382	0.000204	0.000000	1.000000	0.999968	0.000026	0.488928	1.629762	OK.
	Fe 259.940 {130}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000263	0.000300	0.000000	1.000000	0.999988	0.000023	0.381041	1.270137	OK.
	K 766.490 { 44}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.006458	0.001072	0.000000	1.000000	0.998716	0.000861	0.815901	2.719668	OK.
	K 769.896 { 44}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.025293	0.000486	0.000000	1.000000	0.998754	0.000384	1.358270	4.527567	OK.
	Mg 279.553 {121}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.004240	0.009635	0.000000	1.000000	0.999965	0.001271	0.012403	0.041343	OK.
	Mg 280.270 {120}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.002894	0.006823	0.000000	1.000000	0.999991	0.000466	0.021772	0.072575	OK.
	Mn 257.610 {131}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000593	0.002132	0.000000	1.000000	0.999976	0.000043	0.057907	0.193022	OK.
	Na 588.995 { 57}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.381316	0.005098	0.000000	1.000000	0.998749	0.001717	0.226106	0.753686	OK.
	Na 589.592 { 57}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.019508	0.002493	0.000000	1.000000	0.998713	0.000897	0.348871	1.162904	OK.
	Ni 231.604 {446}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	-0.000114	0.000111	0.000000	1.000000	0.999985	0.000003	0.318406	1.061355	OK.
	Pb 182.205 {485}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000006	0.000009	0.000000	1.000000	0.999915	0.000001	2.242373	7.474575	OK.
	Pb 220.353 {453}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000014	0.000038	0.000000	1.000000	0.999956	0.000002	1.562448	5.208161	OK.
	Sb 206.833 {463}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000039	0.000022	0.000000	1.000000	0.999915	0.000002	1.329298	4.430995	OK.
	Sb 217.581 {455}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000069	0.000021	0.000000	1.000000	0.999869	0.000002	1.610643	5.368811	OK.
	Sc 361.384 { 93}* Se 196.090 {472}	<not fit> 11/27/2023 14:08:21	<Never Calibrated> 11/27/2023 12:50:52	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000	Wamin
	Se 203.985 {465}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000105	0.000014	0.000000	1.000000	0.999935	0.000001	1.770188	5.900627	OK.
	Se 190.856 {477}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000004	0.000007	0.000000	1.000000	0.999946	0.000001	3.617266	12.057555	OK.
	Ti 203.885 {467}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	-0.000118	0.000022	0.000000	1.000000	0.999938	0.000002	1.023796	3.412654	OK.
	Ti 276.787 {122}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000204	0.000009	0.000000	1.000000	0.995904	0.000005	15.473792	51.579306	OK.
	V 292.402 {115}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000121	0.000358	0.000000	1.000000	0.999971	0.000018	0.441189	1.470631	OK.
	V 309.311 {109}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.000187	0.000943	0.000000	1.000000	0.999973	0.000047	0.251087	0.836958	OK.
	V 310.230 {109}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.065358	0.000575	0.000000	1.000000	0.999855	0.000066	0.317742	1.059140	OK.
	Zn 202.548 {467}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.002328	0.000289	0.000000	1.000000	0.999724	0.000093	0.075468	0.251561	OK.
	Zn 206.200 {464}	11/27/2023 14:08:21	11/27/2023 12:50:52	Linear	1/Conc	0.001707	0.000201	0.000000	1.000000	0.999695	0.000068	0.119318	0.397728	OK.





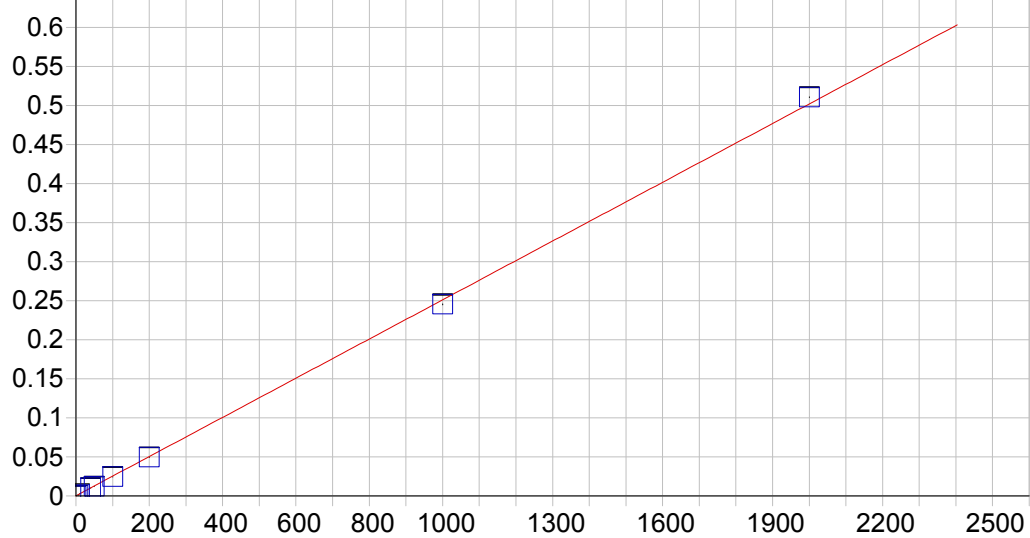
**Ag 328.068 {103}**

Date of Fit: 11/27/2023 14:08:21      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	-0.000558	Re-Slope:	1.000000
A1 (Gain):	0.000411	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.527680		
Predicted MQL:	1.758932		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00003	.000	.000	-.00056	.000	1
CalStd3 5 pp	5.0000	4.8329	-.167	-3.34	.00143	.000	1
CalStd4 10 p	10.000	10.366	.366	3.66	.00371	.000	1
CalStd5 40 p	40.000	40.782	.782	1.96	.01622	.000	1
CalStd6 50 p	50.000	49.710	-.290	-.579	.01989	.000	1
CalStd7 100	100.00	98.524	-1.48	-1.48	.03998	.000	1
CalStd8 200	200.00	199.18	-.823	-.411	.08138	.001	1
CalStd9 100	1000.0	991.36	-8.64	-.864	.40729	.001	1
CalStd10 20	2000.0	2010.2	10.2	.512	.82646	.004	1



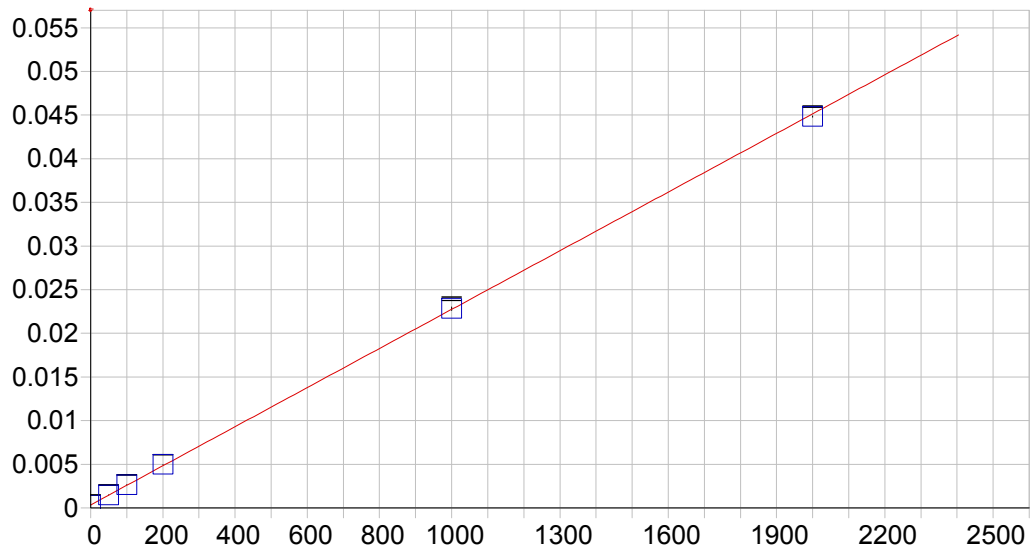


Ag 338.289 {100}

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000201 Re-Slope: 1.000000  
 A1 (Gain): 0.000251 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999767 Status: OK.  
 Std Error of Est: 0.000025  
 Predicted MDL: 0.873921  
 Predicted MQL: 2.913071

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00173	.002	.000	.00020	.000	1
CalStd3 5 pp	5.0000	4.0898	-.910	-18.2	.00123	.000	1
CalStd4 10 p	10.000	9.5938	-.406	-4.06	.00261	.000	1
CalStd5 40 p	40.000	39.394	-.606	-1.51	.01008	.000	1
CalStd6 50 p	50.000	47.448	-2.55	-5.10	.01210	.000	1
CalStd7 100	100.00	96.746	-3.25	-3.25	.02447	.000	1
CalStd8 200	200.00	196.15	-3.85	-1.93	.04940	.000	1
CalStd9 100	1000.0	977.51	-22.5	-2.25	.24540	.001	1
CalStd10 20	2000.0	2034.1	34.1	1.70	.51044	.000	1

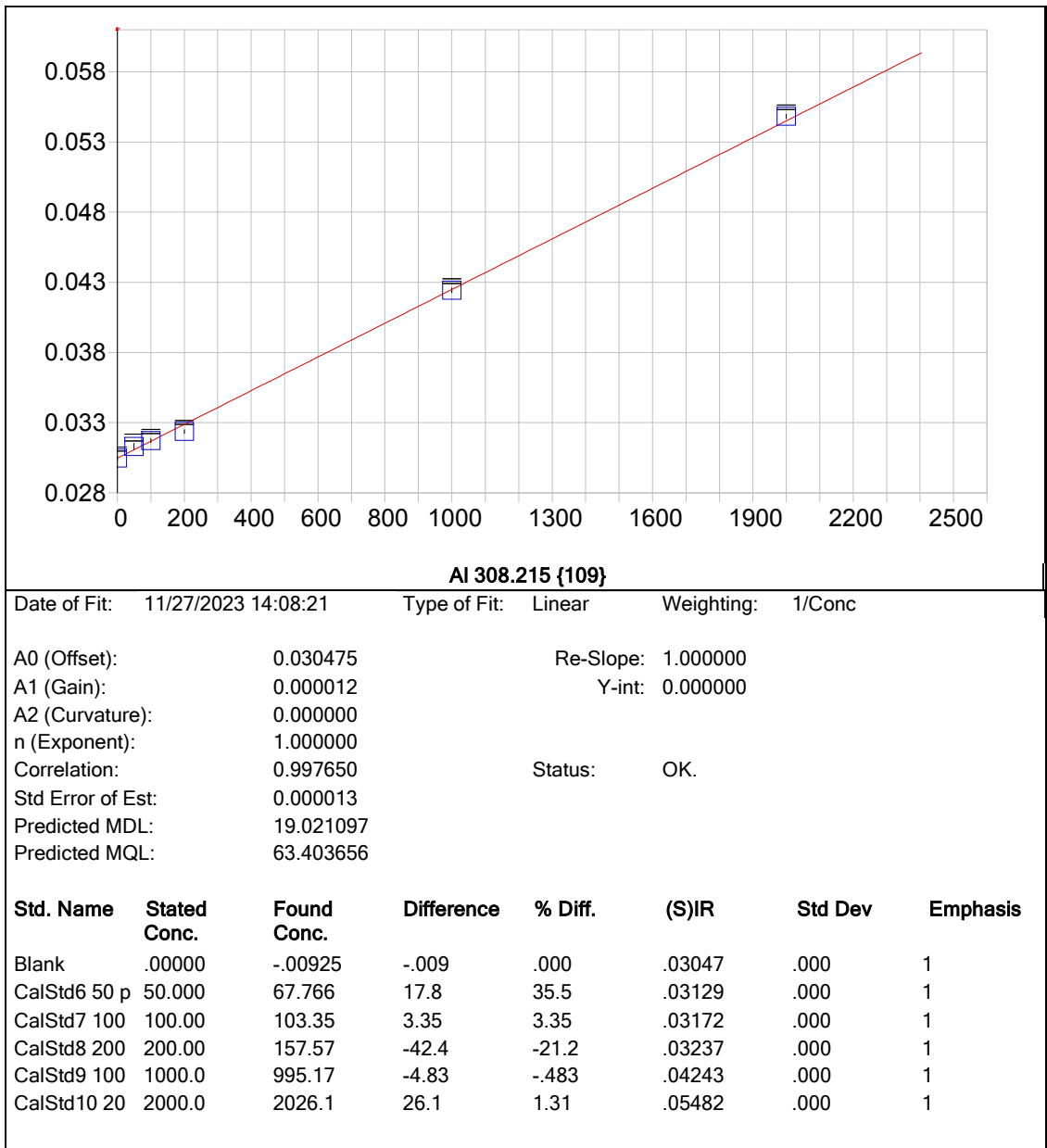


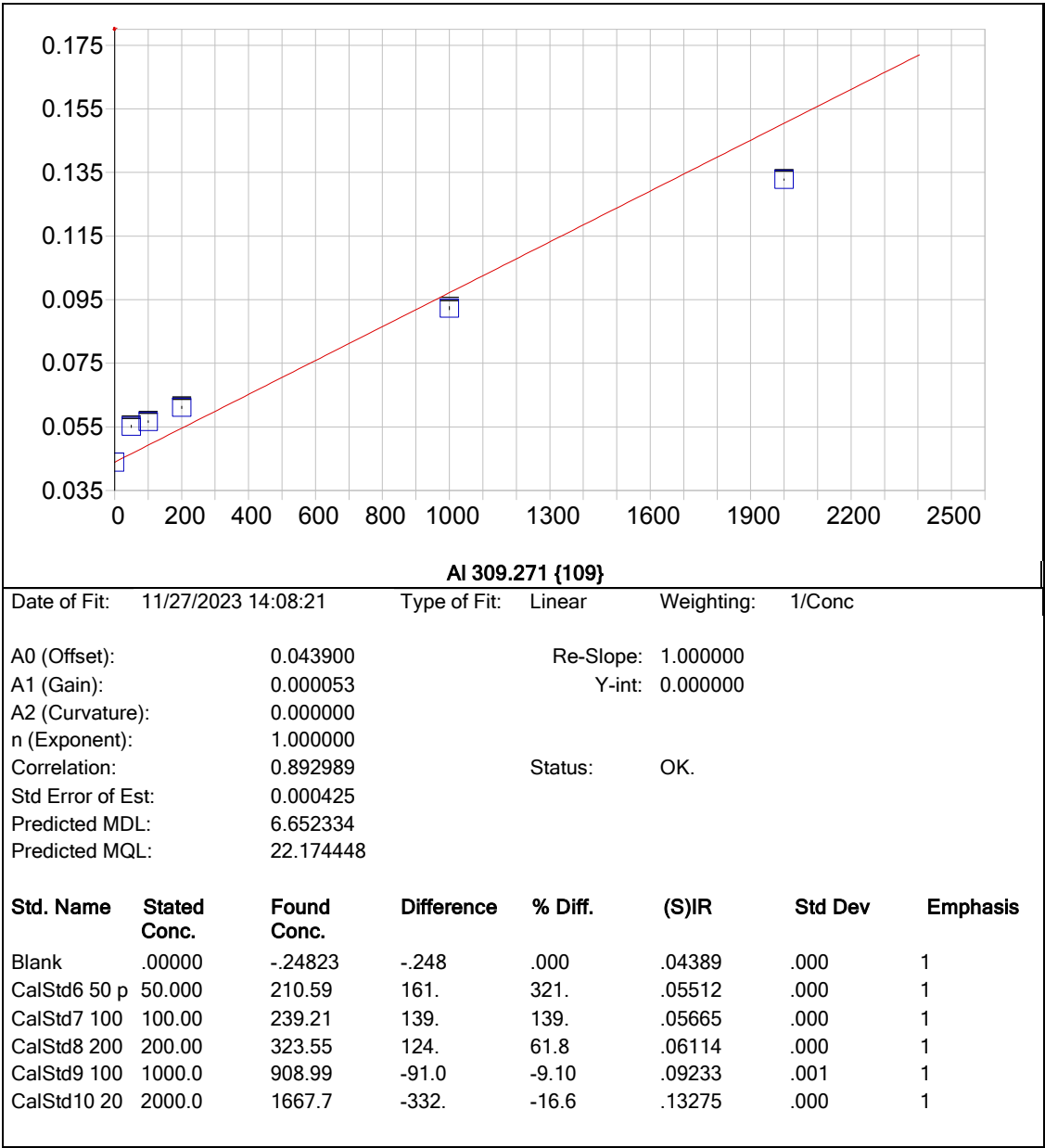
AI 167.079 {502}

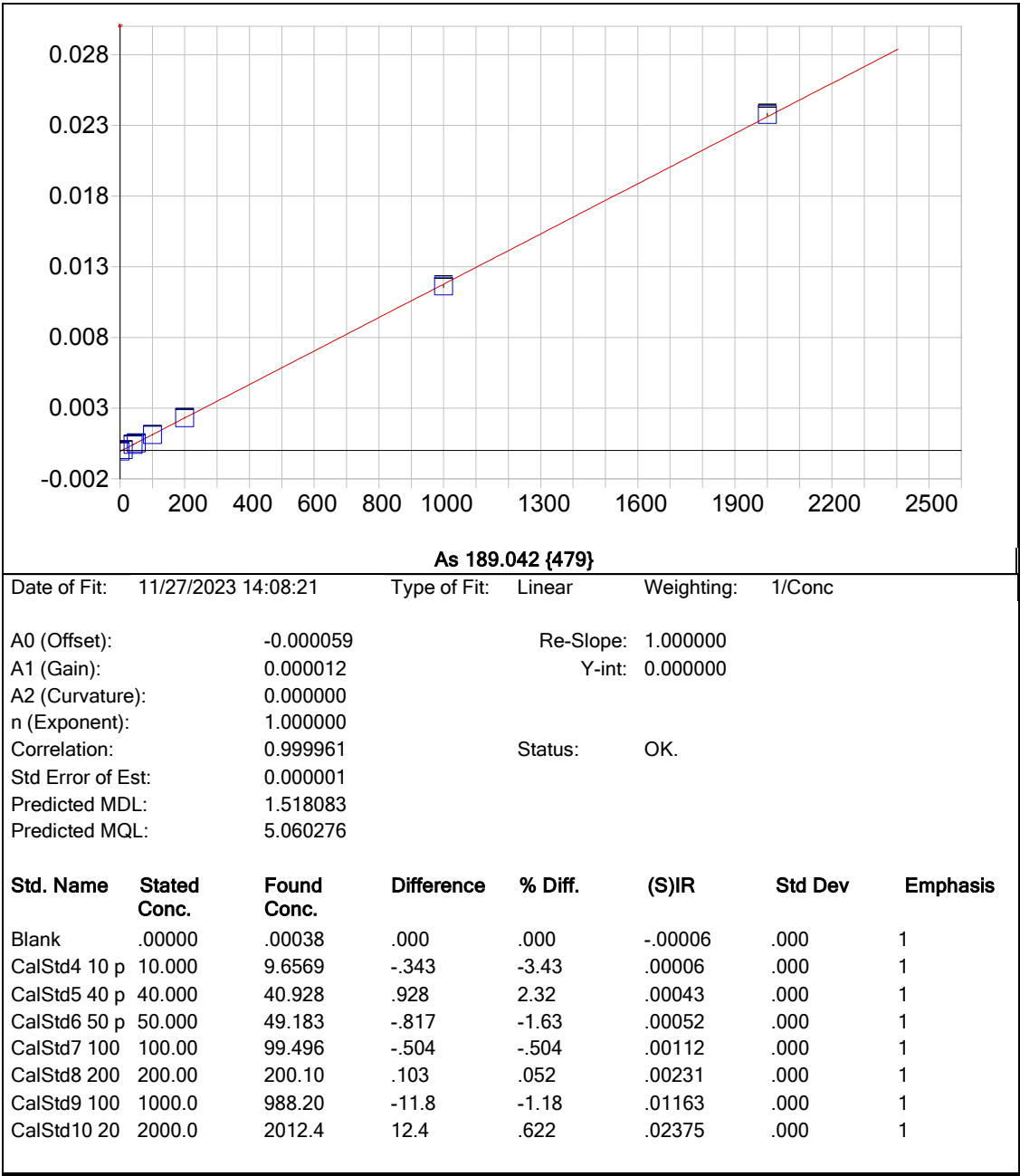
Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

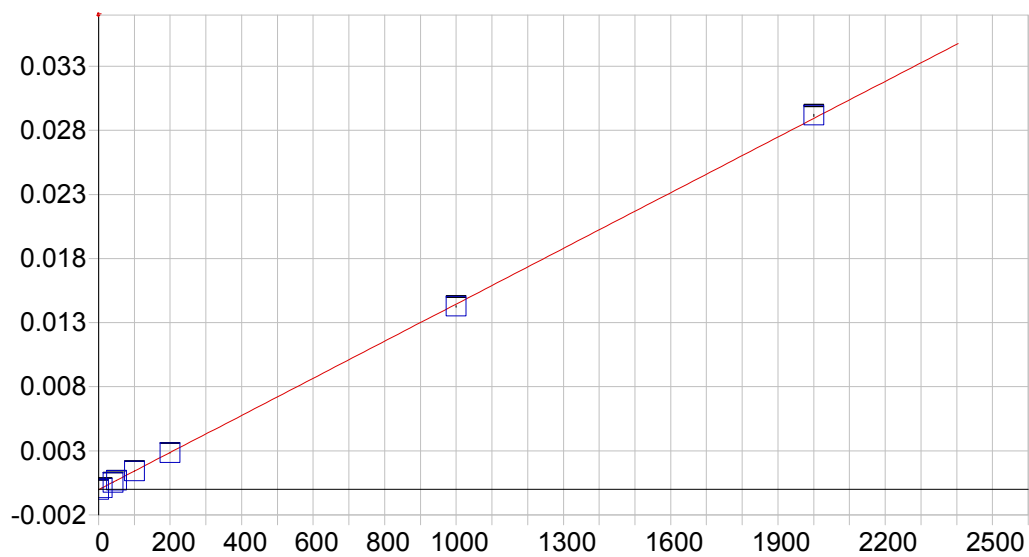
A0 (Offset): 0.000344 Re-Slope: 1.000000  
 A1 (Gain): 0.000022 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999936 Status: OK.  
 Std Error of Est: 0.000004  
 Predicted MDL: 0.432095  
 Predicted MQL: 1.440316

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00357	-.004	.000	.00034	.000	1
CalStd6 50 p	50.000	50.644	.644	1.29	.00148	.000	1
CalStd7 100	100.00	102.79	2.79	2.79	.00265	.000	1
CalStd8 200	200.00	206.81	6.81	3.40	.00498	.000	1
CalStd9 100	1000.0	1003.5	3.54	.354	.02282	.000	1
CalStd10 20	2000.0	1986.2	-13.8	-.689	.04483	.000	1







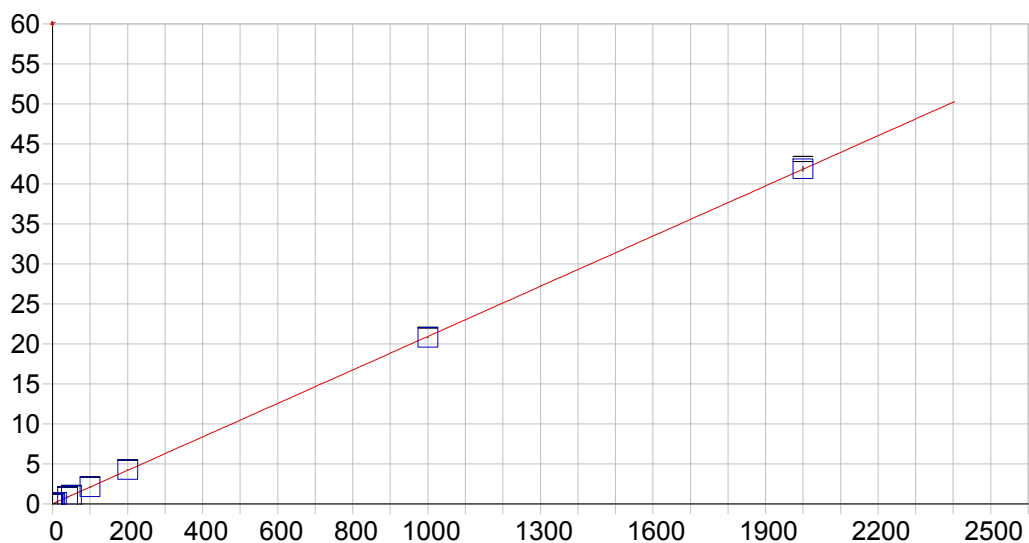


As 193.759 {474}

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000029 Re-Slope: 1.000000  
 A1 (Gain): 0.000014 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999943 Status: OK.  
 Std Error of Est: 0.000001  
 Predicted MDL: 1.595039  
 Predicted MQL: 5.316798

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00109	.001	.000	-.00003	.000	1
CalStd4 10 p	10.000	9.4741	-.526	-5.26	.00011	.000	1
CalStd5 40 p	40.000	38.809	-1.19	-2.98	.00053	.000	1
CalStd6 50 p	50.000	49.504	-.496	-.991	.00069	.000	1
CalStd7 100	100.00	99.525	-.475	-.475	.00141	.000	1
CalStd8 200	200.00	198.35	-1.65	-.826	.00284	.000	1
CalStd9 100	1000.0	987.32	-12.7	-1.27	.01427	.000	1
CalStd10 20	2000.0	2017.0	17.0	.851	.02918	.000	1

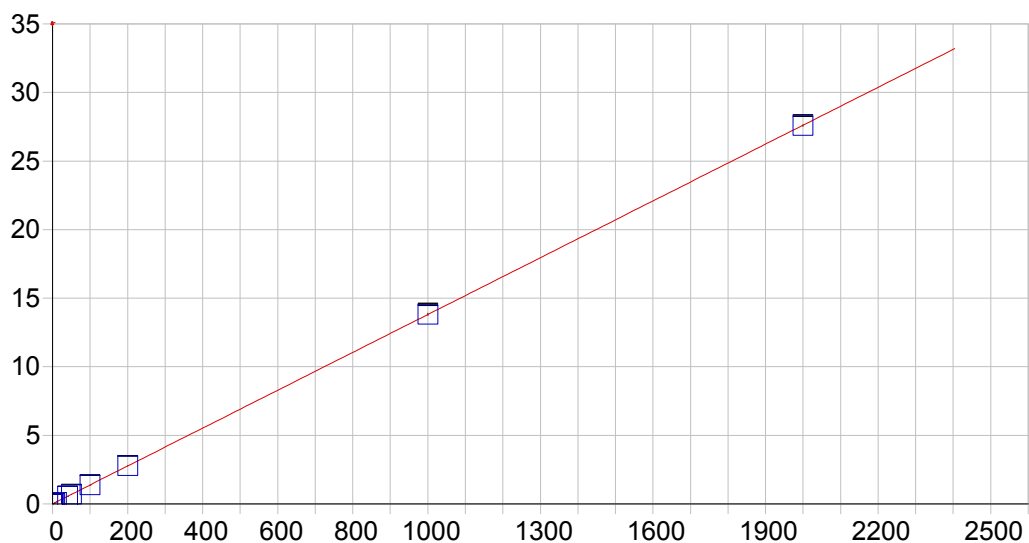


**Ba 455.403 { 74}**

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.014014 Re-Slope: 1.000000  
A1 (Gain): 0.020915 Y-int: 0.000000  
A2 (Curvature): 0.000000  
n (Exponent): 1.000000  
Correlation: 0.999982 Status: OK.  
Std Error of Est: 0.000361  
Predicted MDL: 0.026145  
Predicted MQL: 0.087152

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00015	-.000	.000	.01401	.000	1
CalStd2 2 pp	2.0000	2.0419	.042	2.10	.05672	.000	1
CalStd3 5 pp	5.0000	5.0851	.085	1.70	.12037	.001	1
CalStd4 10 p	10.000	10.101	.101	1.01	.22528	.001	1
CalStd5 40 p	40.000	40.668	.668	1.67	.86460	.002	1
CalStd6 50 p	50.000	49.763	-.237	-.474	1.0548	.006	1
CalStd7 100	100.00	100.43	.429	.429	2.1145	.006	1
CalStd8 200	200.00	203.52	3.52	1.76	4.2708	.022	1
CalStd9 100	1000.0	993.79	-6.21	-.621	20.800	.041	1
CalStd10 20	2000.0	2001.6	1.60	.080	41.878	.304	1



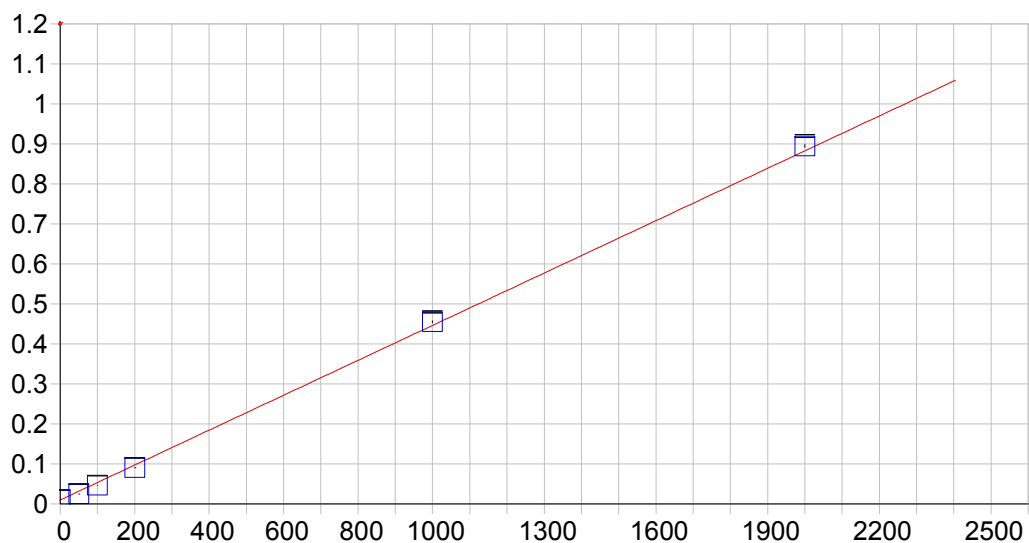
**Be 313.042 {108}**

Date of Fit: 11/27/2023 14:08:21      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	0.003814	Re-Slope:	1.000000
A1 (Gain):	0.013806	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000086		
Predicted MDL:	0.014915		
Predicted MQL:	0.049717		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00008	-.000	.000	.00381	.000	1
CalStd1 1 pp	1.0000	1.0089	.009	.892	.01774	.000	1
CalStd2 2 pp	2.0000	2.0526	.053	2.63	.03215	.000	1
CalStd3 5 pp	5.0000	5.0597	.060	1.19	.07367	.000	1
CalStd4 10 p	10.000	10.108	.108	1.08	.14336	.001	1
CalStd5 40 p	40.000	40.676	.676	1.69	.56539	.001	1
CalStd6 50 p	50.000	49.721	-.279	-.558	.69027	.002	1
CalStd7 100	100.00	99.901	-.099	-.099	1.3831	.004	1
CalStd8 200	200.00	201.55	1.55	.773	2.7864	.008	1
CalStd9 100	1000.0	1000.5	.462	.046	13.816	.083	1
CalStd10 20	2000.0	1997.5	-2.53	-.127	27.581	.059	1



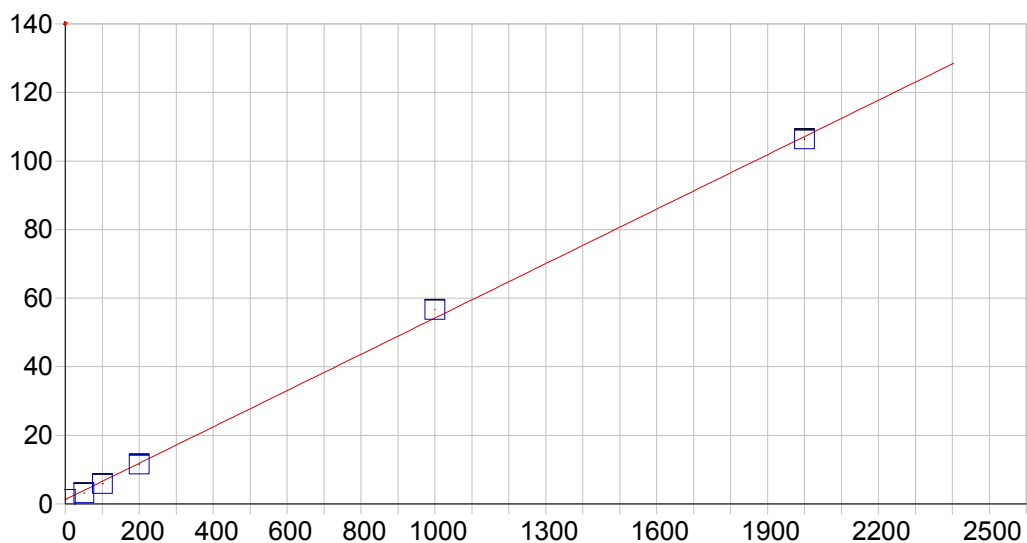


Ca 317.933 {106}

Date of Fit: 11/27/2023 14:08:21      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	0.009951	Re-Slope:	1.000000
A1 (Gain):	0.000436	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998518	Status:	OK.
Std Error of Est:	0.000377		
Predicted MDL:	0.503703		
Predicted MQL:	1.679010		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.02650	.026	.000	.00996	.000	1
CalStd6 50 p	50.000	34.184	-15.8	-31.6	.02487	.000	1
CalStd7 100	100.00	82.993	-17.0	-17.0	.04617	.001	1
CalStd8 200	200.00	184.36	-15.6	-7.82	.09040	.000	1
CalStd9 100	1000.0	1020.8	20.8	2.08	.45539	.002	1
CalStd10 20	2000.0	2027.7	27.7	1.38	.89473	.004	1

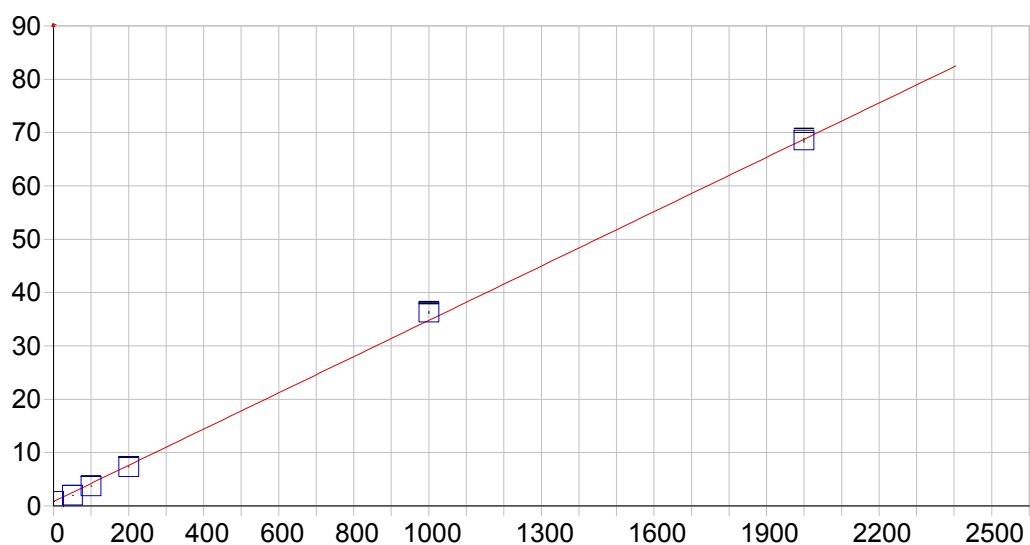


Ca 393.366 { 86}

Date of Fit: 11/27/2023 14:08:21      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	1.275930	Re-Slope:	1.000000
A1 (Gain):	0.052936	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998781	Status:	OK.
Std Error of Est:	0.041423		
Predicted MDL:	0.006407		
Predicted MQL:	0.021357		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.02010	.020	.000	1.2770	.002	1
CalStd6 50 p	50.000	35.700	-14.3	-28.6	3.1658	.015	1
CalStd7 100	100.00	87.334	-12.7	-12.7	5.8990	.013	1
CalStd8 200	200.00	194.14	-5.86	-2.93	11.553	.145	1
CalStd9 100	1000.0	1047.0	47.0	4.70	56.698	.079	1
CalStd10 20	2000.0	1985.9	-14.1	-.707	106.40	.164	1

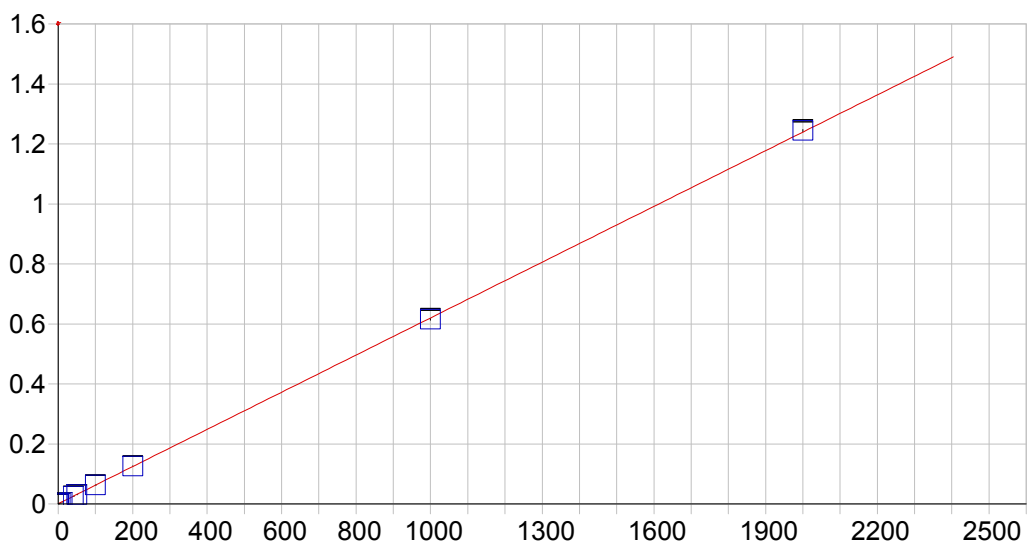


Ca 396.847 { 85}

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.818718 Re-Slope: 1.000000  
 A1 (Gain): 0.033969 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.998667 Status: OK.  
 Std Error of Est: 0.027798  
 Predicted MDL: 0.013255  
 Predicted MQL: 0.044184

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.02240	.022	.000	.81948	.002	1
CalStd6 50 p	50.000	34.862	-15.1	-30.3	2.0029	.007	1
CalStd7 100	100.00	85.846	-14.2	-14.2	3.7348	.013	1
CalStd8 200	200.00	191.03	-8.97	-4.49	7.3077	.046	1
CalStd9 100	1000.0	1043.9	43.9	4.39	36.280	.215	1
CalStd10 20	2000.0	1994.3	-5.67	-.283	68.564	.379	1

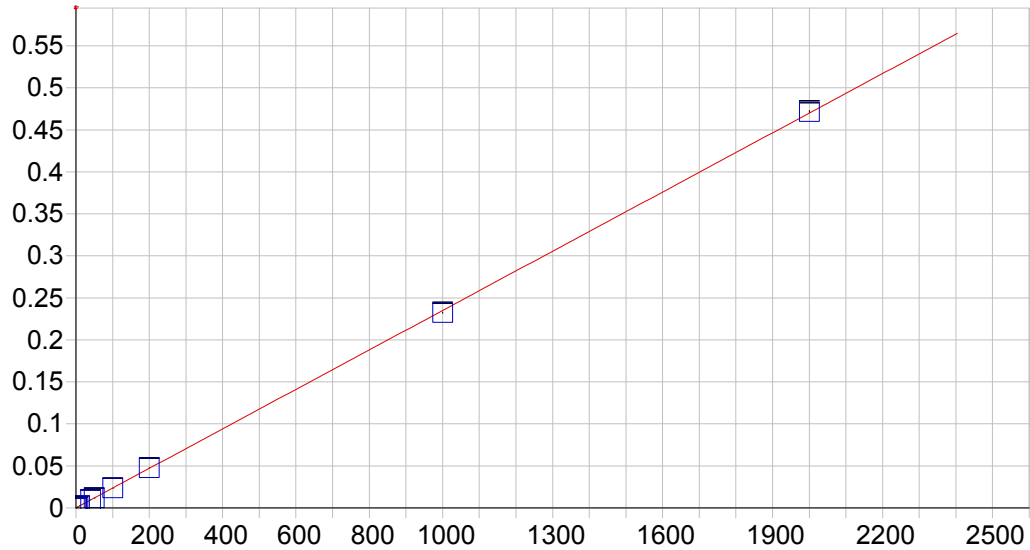


**Cd 214.438 {457}**

Date of Fit: 11/27/2023 14:08:21      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	0.000672	Re-Slope:	1.000000
A1 (Gain):	0.000619	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.784407	Status:	OK.
Std Error of Est:	0.000706		
Predicted MDL:	0.052861		
Predicted MQL:	0.176205		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.0309	-1.03	.000	.00003	.000	1
CalStd1 1 pp	1.0000	-.03605	-1.04	-104.	.00065	.000	1
CalStd2 2 pp	.00000	1.0322	1.03	.000	.00131	.000	1
CalStd3 5 pp	5.0000	4.0514	-.949	-19.0	.00318	.000	1
CalStd4 10 p	10.000	9.1687	-.831	-8.31	.00635	.000	1
CalStd5 40 p	40.000	40.006	.006	.015	.02545	.000	1
CalStd6 50 p	50.000	49.213	-.787	-1.57	.03116	.000	1
CalStd7 100	100.00	100.27	.268	.268	.06278	.000	1
CalStd8 200	200.00	202.47	2.47	1.24	.12609	.001	1
CalStd9 100	1000.0	992.46	-7.54	-.754	.61541	.003	1
CalStd10 20	2000.0	2008.4	8.39	.420	1.2447	.004	1

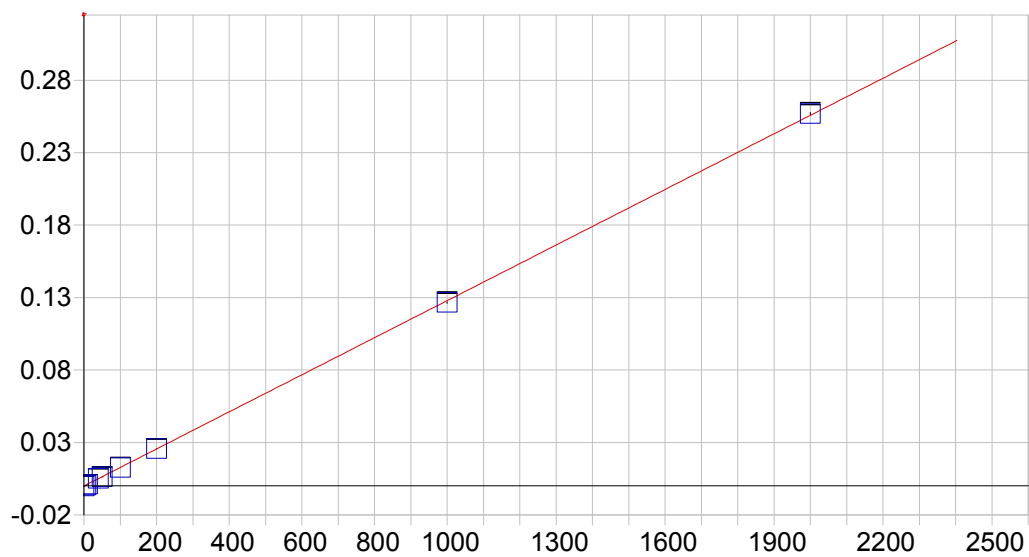


**Cd 228.802 {447}**

Date of Fit: 11/27/2023 14:08:21      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	0.000083	Re-Slope:	1.000000
A1 (Gain):	0.000235	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999959	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.163502		
Predicted MQL:	0.545007		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00036	-.000	.000	.00008	.000	1
CalStd1 1 pp	1.0000	1.1440	.144	14.4	.00035	.000	1
CalStd2 2 pp	2.0000	2.2008	.201	10.0	.00060	.000	1
CalStd3 5 pp	5.0000	5.2830	.283	5.66	.00132	.000	1
CalStd4 10 p	10.000	10.245	.245	2.45	.00249	.000	1
CalStd5 40 p	40.000	40.975	.975	2.44	.00971	.000	1
CalStd6 50 p	50.000	50.005	.005	.009	.01183	.000	1
CalStd7 100	100.00	100.77	.765	.765	.02376	.000	1
CalStd8 200	200.00	202.26	2.26	1.13	.04761	.000	1
CalStd9 100	1000.0	988.17	-11.8	-1.18	.23226	.001	1
CalStd10 20	2000.0	2007.0	6.95	.348	.47163	.001	1

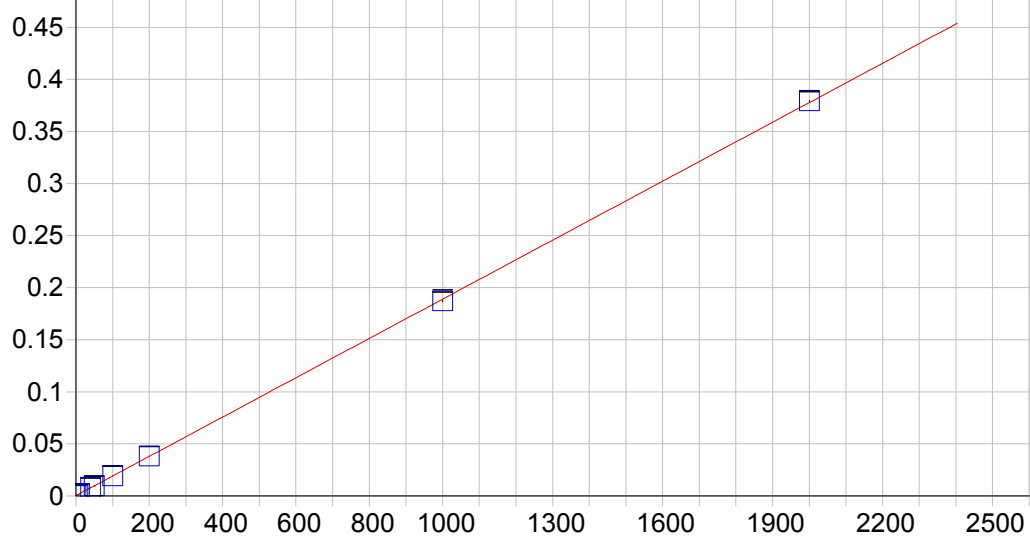


### Co 228.616 {448}

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000049 Re-Slope: 1.000000  
 A1 (Gain): 0.000128 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999974 Status: OK.  
 Std Error of Est: 0.000004  
 Predicted MDL: 0.239216  
 Predicted MQL: 0.797386

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00013	.000	.000	-.00005	.000	1
CalStd3 5 pp	5.0000	4.9843	-.016	-.315	.00059	.000	1
CalStd4 10 p	10.000	9.8885	-.111	-1.11	.00122	.000	1
CalStd5 40 p	40.000	40.195	.195	.487	.00509	.000	1
CalStd6 50 p	50.000	49.214	-.786	-1.57	.00625	.000	1
CalStd7 100	100.00	99.785	-.215	-.215	.01272	.000	1
CalStd8 200	200.00	201.28	1.28	.640	.02570	.000	1
CalStd9 100	1000.0	989.74	-10.3	-1.03	.12656	.001	1
CalStd10 20	2000.0	2009.9	9.91	.496	.25707	.001	1

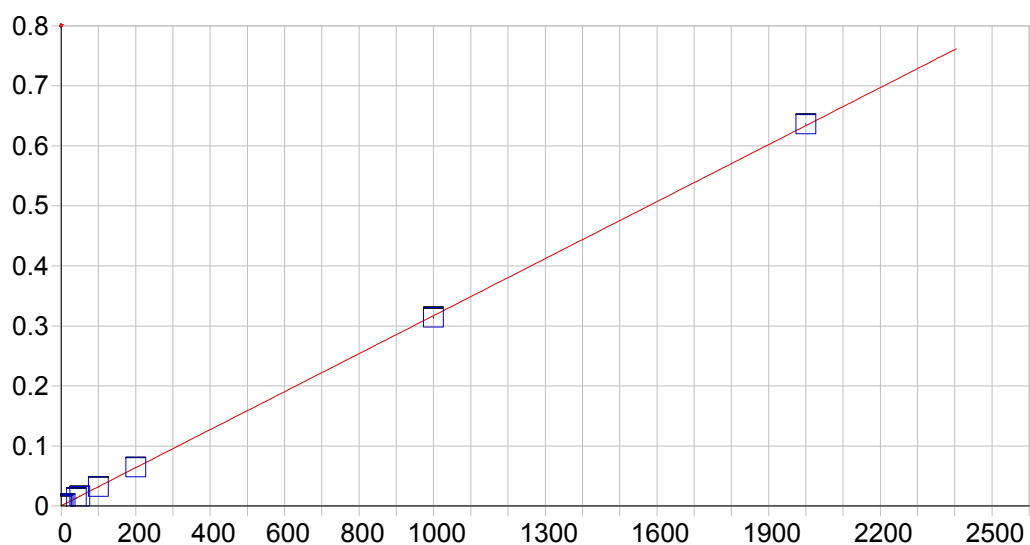


Co 238.892 {141}

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000227 Re-Slope: 1.000000  
 A1 (Gain): 0.000189 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999981 Status: OK.  
 Std Error of Est: 0.000006  
 Predicted MDL: 0.522819  
 Predicted MQL: 1.742730

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00003	-.000	.000	.00023	.000	1
CalStd3 5 pp	5.0000	5.0749	.075	1.50	.00118	.000	1
CalStd4 10 p	10.000	9.8740	-.126	-1.26	.00209	.000	1
CalStd5 40 p	40.000	40.542	.542	1.36	.00788	.000	1
CalStd6 50 p	50.000	49.542	-.458	-.915	.00958	.000	1
CalStd7 100	100.00	100.30	.300	.300	.01916	.000	1
CalStd8 200	200.00	200.35	.347	.174	.03804	.000	1
CalStd9 100	1000.0	990.95	-9.05	-.905	.18725	.001	1
CalStd10 20	2000.0	2008.4	8.37	.418	.37928	.001	1



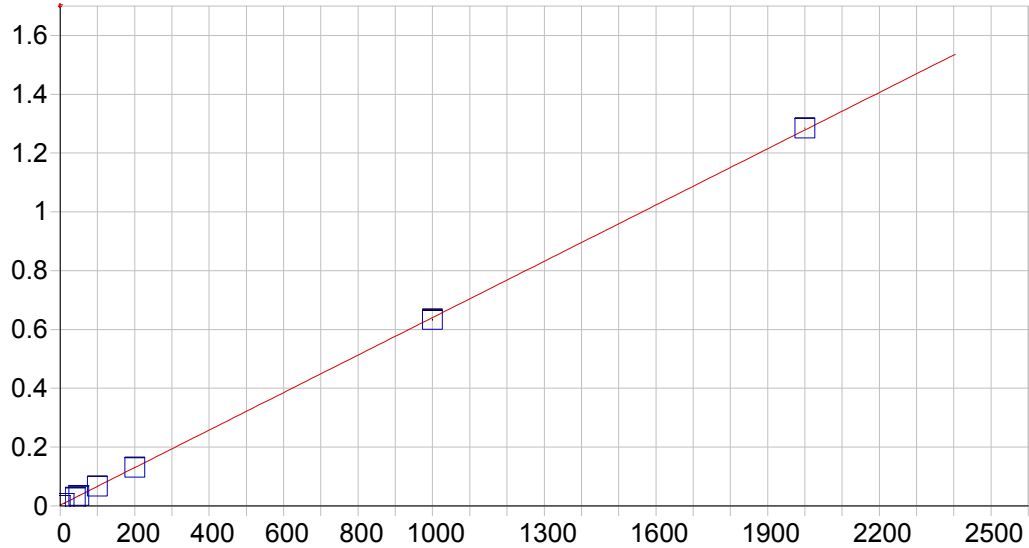
**Cr 267.716 {126}**

Date of Fit: 11/27/2023 14:08:21      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	0.000394	Re-Slope:	1.000000
A1 (Gain):	0.000317	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	0.420175		
Predicted MQL:	1.400583		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00036	.000	.000	.00039	.000	1
CalStd2 2 pp	2.0000	1.6910	-.309	-15.5	.00093	.000	1
CalStd3 5 pp	5.0000	4.8938	-.106	-2.12	.00194	.000	1
CalStd4 10 p	10.000	9.8053	-.195	-1.95	.00350	.000	1
CalStd5 40 p	40.000	40.635	.635	1.59	.01326	.000	1
CalStd6 50 p	50.000	49.835	-.165	-.330	.01618	.000	1
CalStd7 100	100.00	99.958	-.042	-.042	.03205	.000	1
CalStd8 200	200.00	201.92	1.92	.958	.06434	.000	1
CalStd9 100	1000.0	991.22	-8.78	-.878	.31433	.001	1
CalStd10 20	2000.0	2007.0	7.04	.352	.63605	.000	1



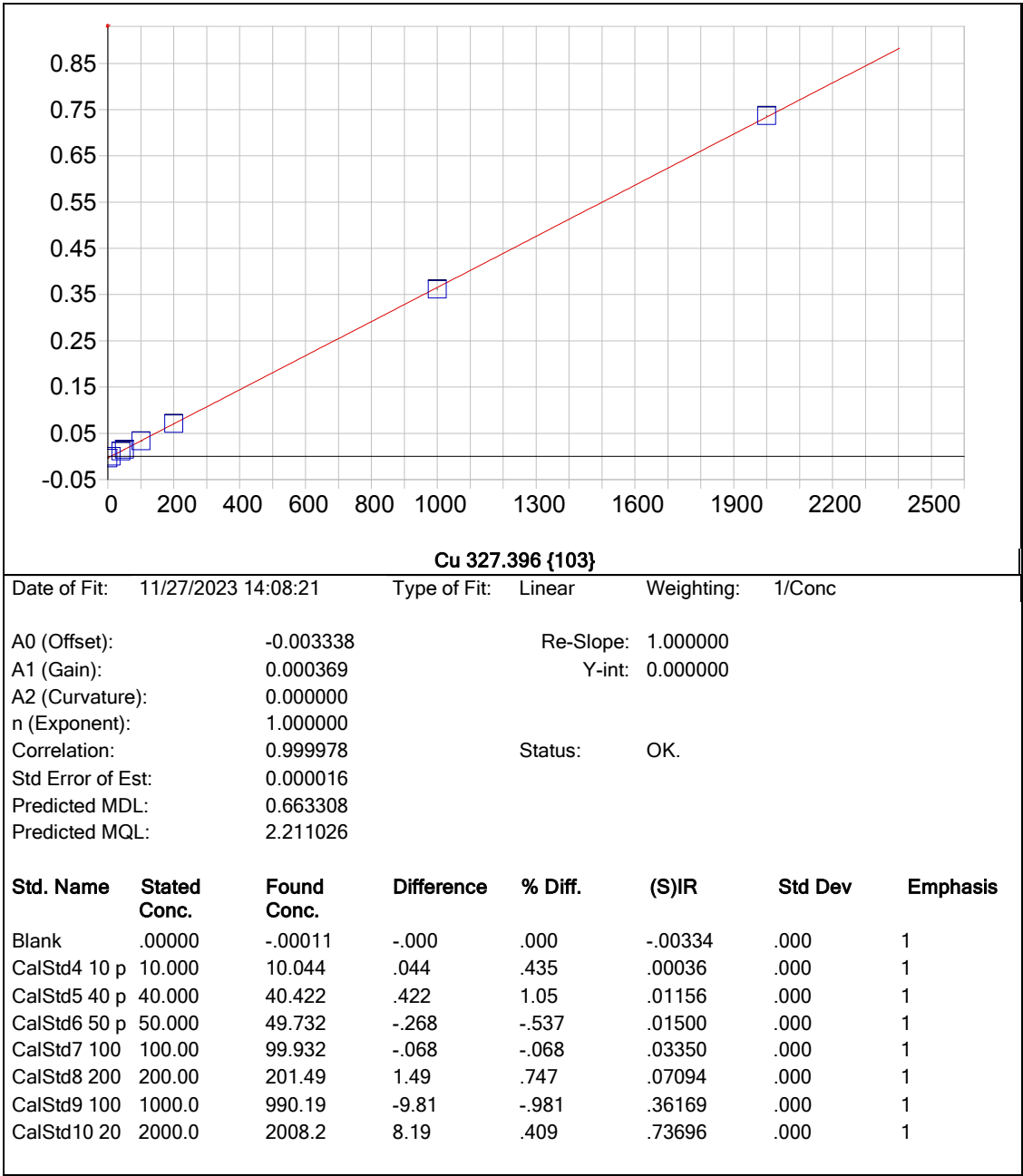


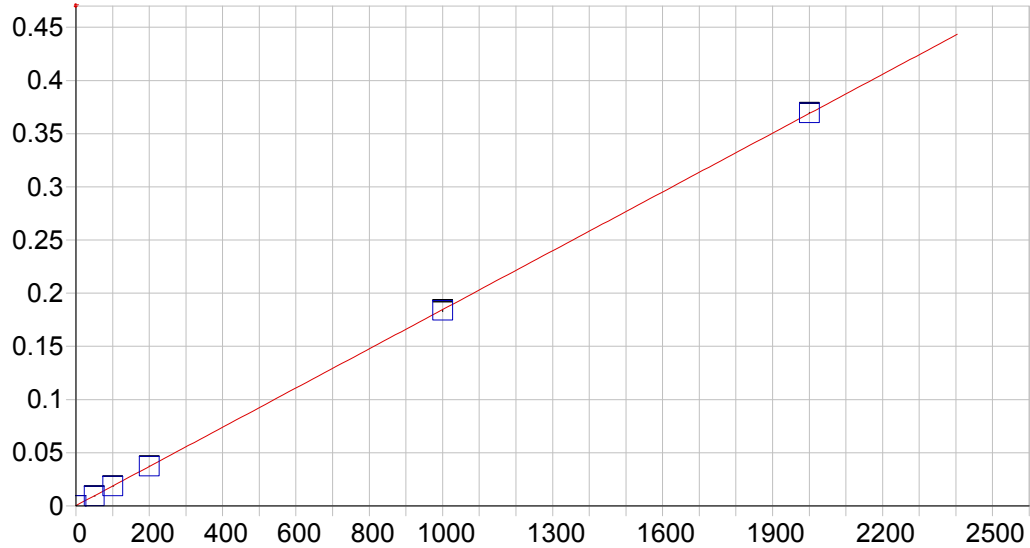
**Cu 324.754 {104}**

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.002739 Re-Slope: 1.000000  
 A1 (Gain): 0.000638 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999971 Status: OK.  
 Std Error of Est: 0.000033  
 Predicted MDL: 0.352904  
 Predicted MQL: 1.176348

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00007	-.000	.000	.00274	.000	1
CalStd4 10 p	10.000	9.9082	-.092	-.918	.00906	.000	1
CalStd5 40 p	40.000	40.632	.632	1.58	.02866	.000	1
CalStd6 50 p	50.000	50.012	.012	.024	.03464	.000	1
CalStd7 100	100.00	100.23	.232	.232	.06667	.000	1
CalStd8 200	200.00	200.95	.949	.474	.13092	.000	1
CalStd9 100	1000.0	988.50	-11.5	-1.15	.63326	.002	1
CalStd10 20	2000.0	2009.8	9.77	.488	1.2847	.000	1



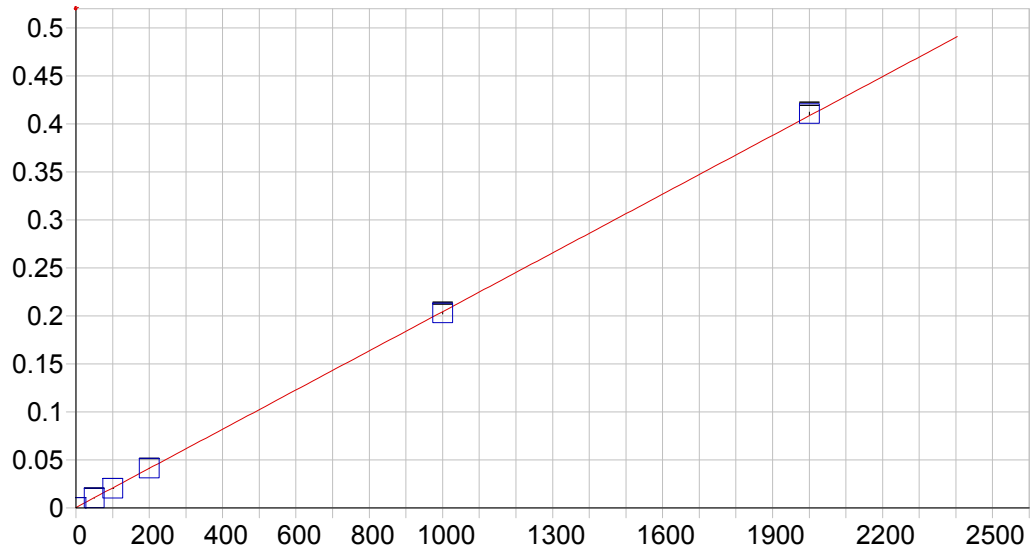


**Fe 238.204 {142}**

Date of Fit: 11/27/2023 14:08:21      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	0.000227	Re-Slope:	1.000000
A1 (Gain):	0.000184	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	0.436476		
Predicted MQL:	1.454920		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00014	.000	.000	.00023	.000	1
CalStd6 50 p	50.000	49.625	-.375	-.750	.00938	.000	1
CalStd7 100	100.00	99.988	-.012	-.012	.01866	.000	1
CalStd8 200	200.00	201.51	1.51	.753	.03738	.000	1
CalStd9 100	1000.0	995.60	-4.40	-.440	.18378	.001	1
CalStd10 20	2000.0	2003.3	3.28	.164	.36957	.000	1

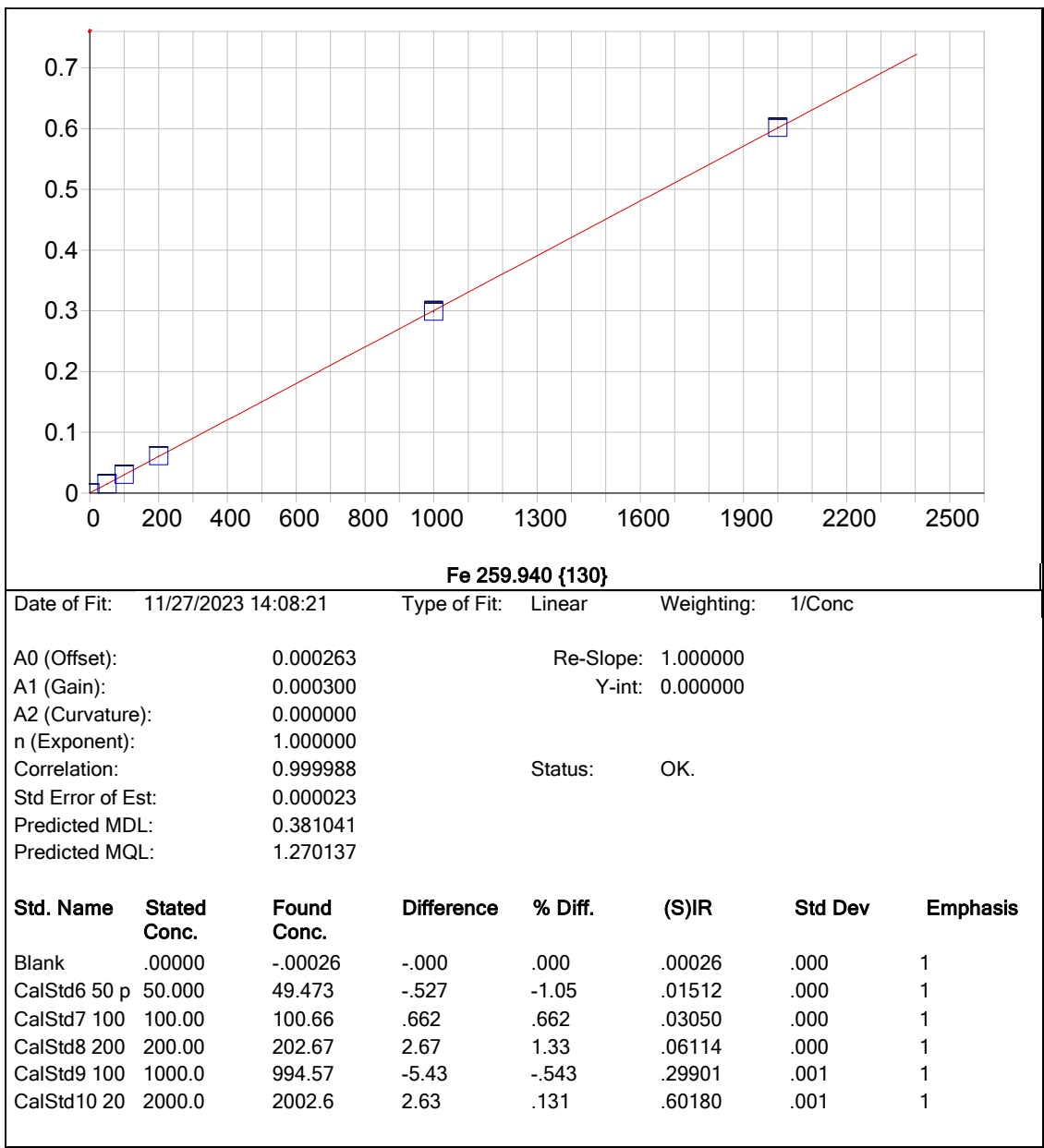


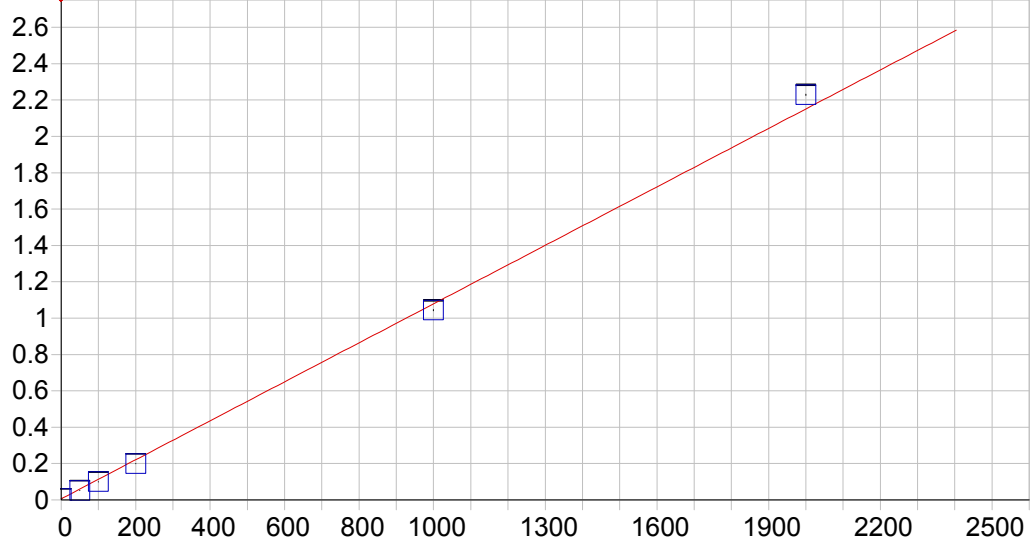
**Fe 239.562 {141}**

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000382 Re-Slope: 1.000000  
 A1 (Gain): 0.000204 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999968 Status: OK.  
 Std Error of Est: 0.000026  
 Predicted MDL: 0.488928  
 Predicted MQL: 1.629762

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00278	.003	.000	.00038	.000	1
CalStd6 50 p	50.000	48.132	-1.87	-3.74	.01020	.000	1
CalStd7 100	100.00	98.330	-1.67	-1.67	.02045	.000	1
CalStd8 200	200.00	200.08	.084	.042	.04121	.000	1
CalStd9 100	1000.0	992.58	-7.42	-.742	.20290	.001	1
CalStd10 20	2000.0	2010.9	10.9	.544	.41068	.002	1



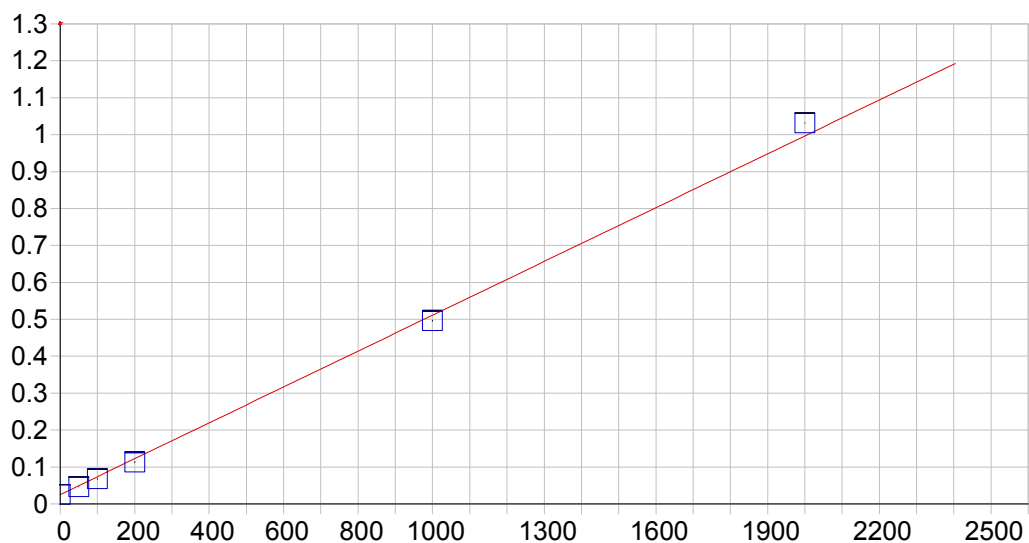


**K 766.490 { 44}**

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.006458 Re-Slope: 1.000000  
 A1 (Gain): 0.001072 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.998716 Status: OK.  
 Std Error of Est: 0.000861  
 Predicted MDL: 0.815901  
 Predicted MQL: 2.719668

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01913	.019	.000	.00648	.000	1
CalStd6 50 p	50.000	42.122	-7.88	-15.8	.05163	.001	1
CalStd7 100	100.00	87.004	-13.0	-13.0	.09975	.001	1
CalStd8 200	200.00	180.13	-19.9	-9.94	.19961	.001	1
CalStd9 100	1000.0	967.74	-32.3	-3.23	1.0442	.003	1
CalStd10 20	2000.0	2073.0	73.0	3.65	2.2293	.004	1

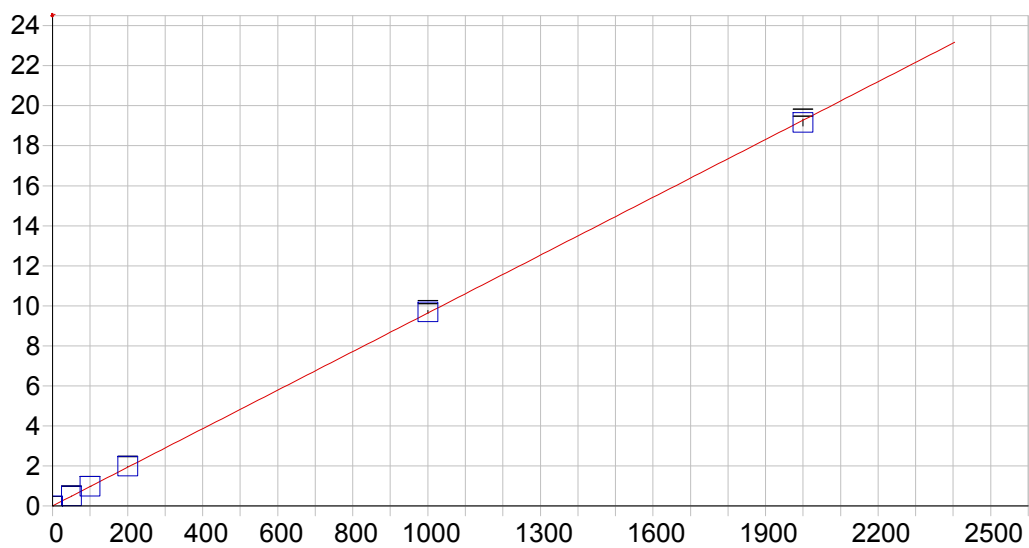


**K 769.896 { 44}**

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.025293 Re-Slope: 1.000000  
 A1 (Gain): 0.000486 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.998754 Status: OK.  
 Std Error of Est: 0.000384  
 Predicted MDL: 1.358270  
 Predicted MQL: 4.527567

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01863	.019	.000	.02530	.000	1
CalStd6 50 p	50.000	42.869	-7.13	-14.3	.04611	.000	1
CalStd7 100	100.00	86.342	-13.7	-13.7	.06723	.001	1
CalStd8 200	200.00	180.41	-19.6	-9.80	.11292	.001	1
CalStd9 100	1000.0	968.70	-31.3	-3.13	.49580	.001	1
CalStd10 20	2000.0	2071.7	71.7	3.58	1.0315	.001	1



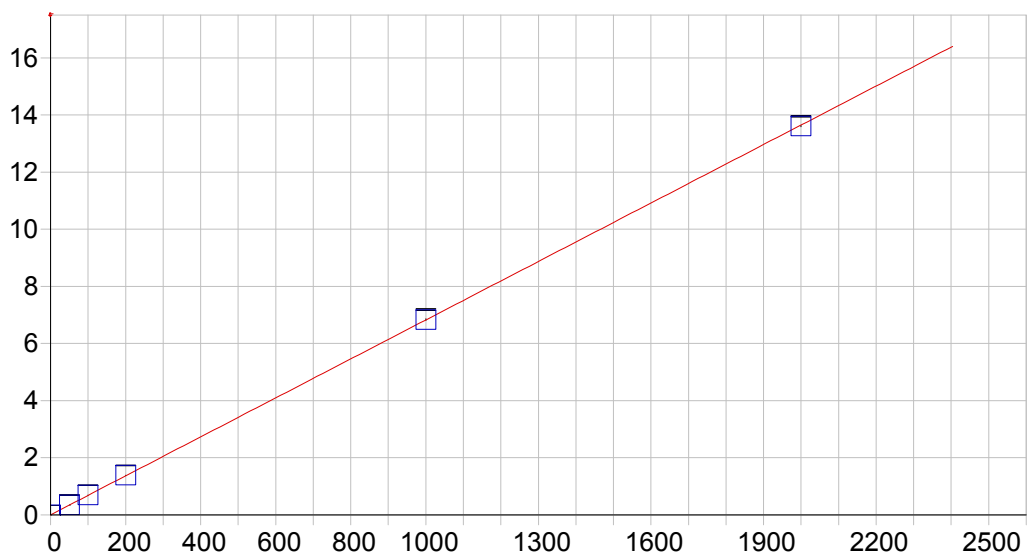
### Mg 279.553 {121}

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.004240 Re-Slope: 1.000000  
 A1 (Gain): 0.009635 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999965 Status: OK.  
 Std Error of Est: 0.001271  
 Predicted MDL: 0.012403  
 Predicted MQL: 0.041343

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00196	-.002	.000	.00422	.000	1
CalStd6 50 p	50.000	50.312	.312	.624	.48902	.002	1
CalStd7 100	100.00	100.89	.893	.893	.97638	.003	1
CalStd8 200	200.00	204.81	4.81	2.41	1.9777	.009	1
CalStd9 100	1000.0	1005.9	5.92	.592	9.6967	.081	1
CalStd10 20	2000.0	1988.1	-11.9	-.597	19.160	.180	1



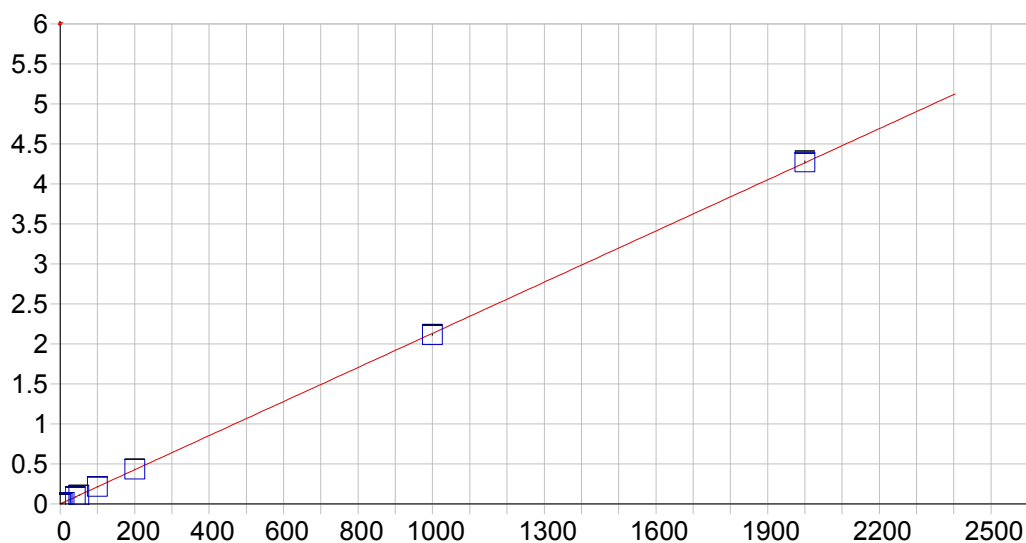


### Mg 280.270 {120}

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.002894 Re-Slope: 1.000000  
 A1 (Gain): 0.006823 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999991 Status: OK.  
 Std Error of Est: 0.000466  
 Predicted MDL: 0.021772  
 Predicted MQL: 0.072575

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00121	-.001	.000	.00289	.000	1
CalStd6 50 p	50.000	50.210	.210	.420	.34549	.001	1
CalStd7 100	100.00	100.67	.672	.672	.68980	.002	1
CalStd8 200	200.00	202.91	2.91	1.46	1.3874	.005	1
CalStd9 100	1000.0	1001.3	1.28	.128	6.8349	.028	1
CalStd10 20	2000.0	1994.9	-5.07	-.254	13.615	.019	1

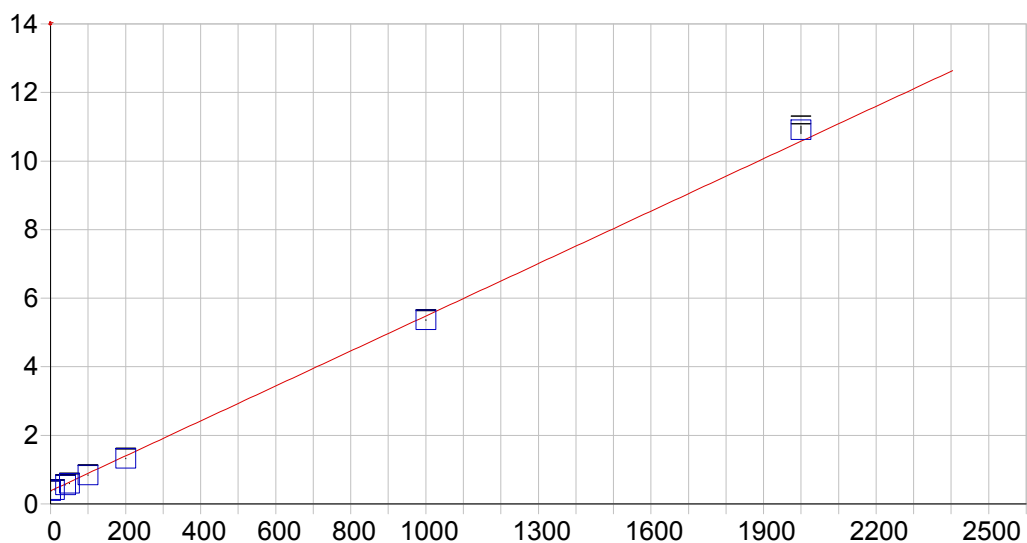


**Mn 257.610 {131}**

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000593 Re-Slope: 1.000000  
 A1 (Gain): 0.002132 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999976 Status: OK.  
 Std Error of Est: 0.000043  
 Predicted MDL: 0.057907  
 Predicted MQL: 0.193022

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00015	-.000	.000	.00059	.000	1
CalStd2 2 pp	2.0000	2.0026	.003	.129	.00486	.000	1
CalStd3 5 pp	5.0000	5.1738	.174	3.48	.01162	.000	1
CalStd4 10 p	10.000	10.040	.040	.401	.02200	.000	1
CalStd5 40 p	40.000	40.788	.788	1.97	.08755	.000	1
CalStd6 50 p	50.000	50.030	.030	.060	.10725	.001	1
CalStd7 100	100.00	100.97	.967	.967	.21585	.001	1
CalStd8 200	200.00	202.82	2.82	1.41	.43299	.002	1
CalStd9 100	1000.0	990.84	-9.16	-.916	2.1130	.007	1
CalStd10 20	2000.0	2004.3	4.34	.217	4.2737	.013	1

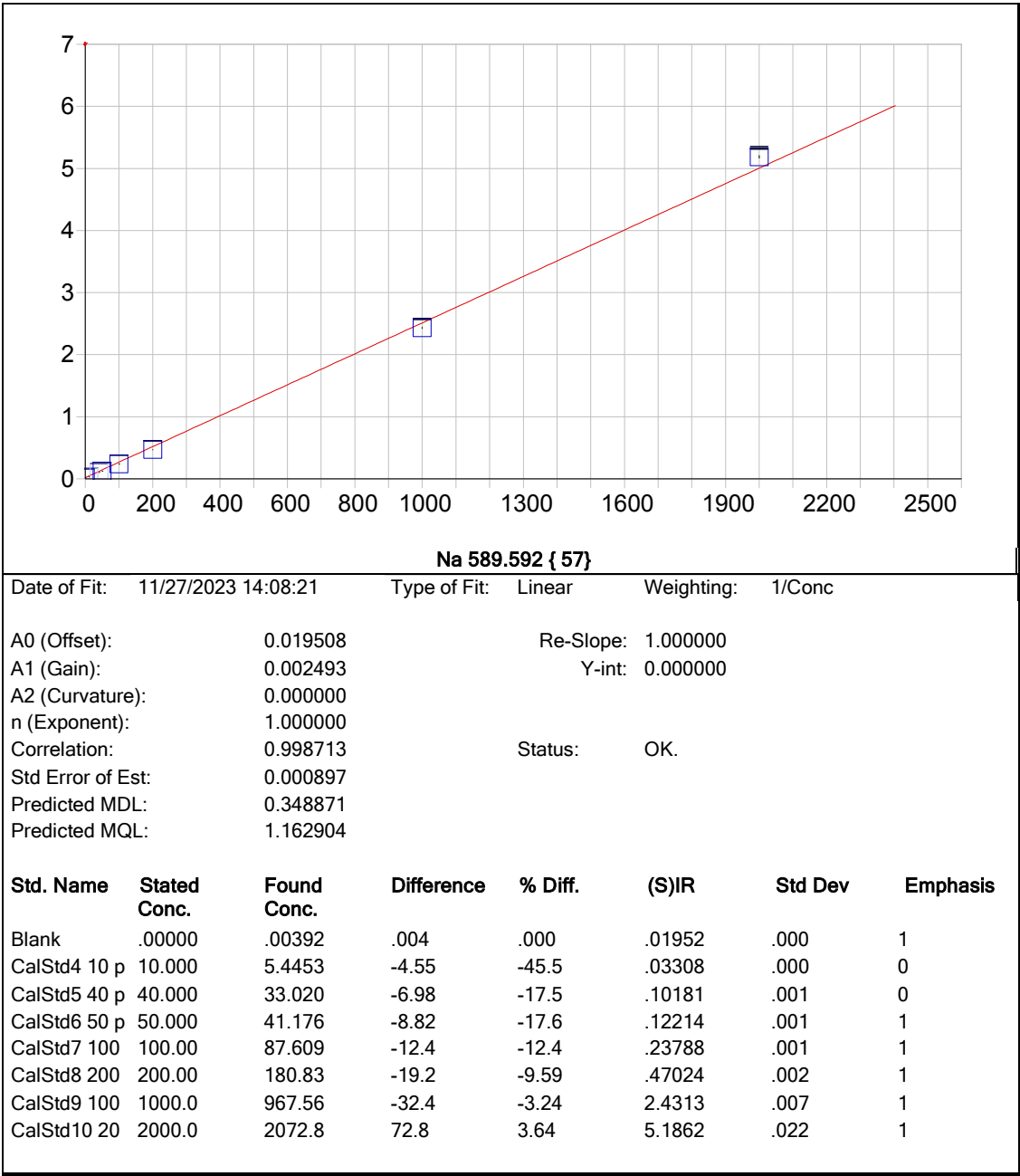


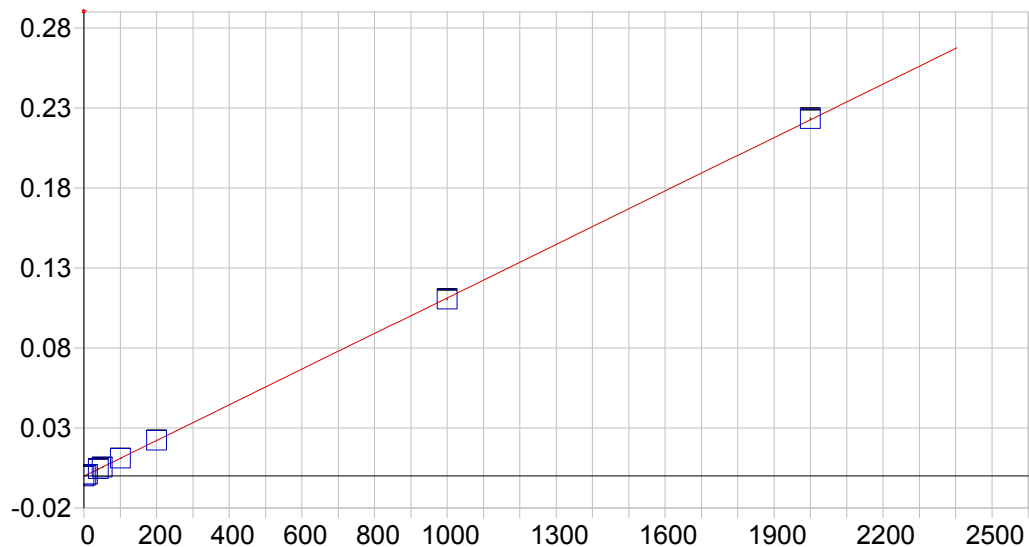
Na 588.995 { 57}

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.381316 Re-Slope: 1.000000  
 A1 (Gain): 0.005098 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.998749 Status: OK.  
 Std Error of Est: 0.001717  
 Predicted MDL: 0.226106  
 Predicted MQL: 0.753686

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00889	.009	.000	.38136	.002	1
CalStd4 10 p	10.000	5.7294	-4.27	-42.7	.41053	.003	1
CalStd5 40 p	40.000	34.047	-5.95	-14.9	.55490	.001	1
CalStd6 50 p	50.000	42.561	-7.44	-14.9	.59831	.006	1
CalStd7 100	100.00	89.883	-10.1	-10.1	.83958	.007	1
CalStd8 200	200.00	185.51	-14.5	-7.25	1.3271	.008	1
CalStd9 100	1000.0	977.31	-22.7	-2.27	5.3641	.016	1
CalStd10 20	2000.0	2065.0	65.0	3.25	10.909	.114	1



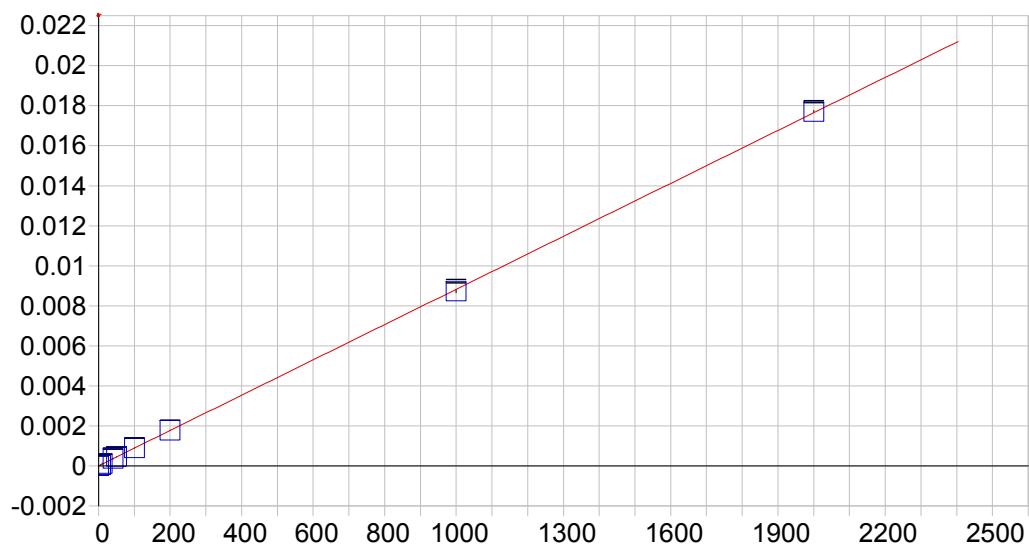


### Ni 231.604 {446}

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000114 Re-Slope: 1.000000  
 A1 (Gain): 0.000111 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999985 Status: OK.  
 Std Error of Est: 0.000003  
 Predicted MDL: 0.318406  
 Predicted MQL: 1.061355

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00019	-.000	.000	-.00011	.000	1
CalStd3 5 pp	5.0000	5.0959	.096	1.92	.00045	.000	1
CalStd4 10 p	10.000	10.063	.063	.635	.00101	.000	1
CalStd5 40 p	40.000	40.922	.922	2.30	.00444	.000	1
CalStd6 50 p	50.000	49.546	-.454	-.908	.00540	.000	1
CalStd7 100	100.00	99.857	-.143	-.143	.01101	.000	1
CalStd8 200	200.00	201.05	1.05	.524	.02227	.000	1
CalStd9 100	1000.0	992.85	-7.15	-.715	.11044	.000	1
CalStd10 20	2000.0	2005.6	5.62	.281	.22322	.001	1

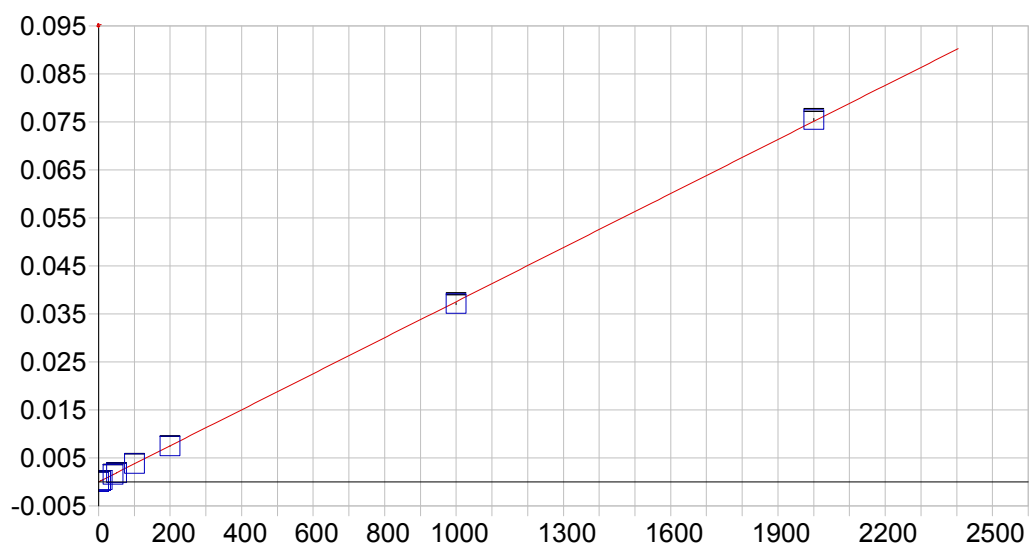


### Pb 182.205 {485}

Date of Fit: 11/27/2023 14:08:21      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset): 0.000006      Re-Slope: 1.000000  
 A1 (Gain): 0.000009      Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999915      Status: OK.  
 Std Error of Est: 0.000001  
 Predicted MDL: 2.242373  
 Predicted MQL: 7.474575

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00040	-.000	.000	.00001	.000	1
CalStd3 5 pp	5.0000	4.3275	-.672	-13.4	.00004	.000	1
CalStd4 10 p	10.000	11.786	1.79	17.9	.00011	.000	1
CalStd5 40 p	40.000	40.669	.669	1.67	.00037	.000	1
CalStd6 50 p	50.000	50.862	.862	1.72	.00045	.000	1
CalStd7 100	100.00	100.50	.496	.496	.00089	.000	1
CalStd8 200	200.00	200.93	.930	.465	.00178	.000	1
CalStd9 100	1000.0	989.42	-10.6	-1.06	.00873	.000	1
CalStd10 20	2000.0	2006.5	6.51	.325	.01771	.000	1

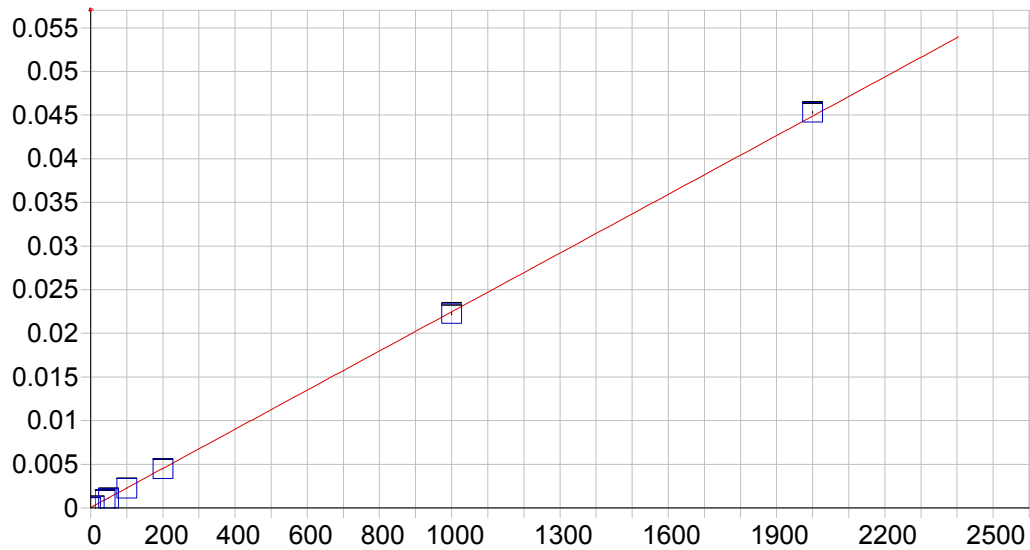


### Pb 220.353 {453}

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000014 Re-Slope: 1.000000  
 A1 (Gain): 0.000038 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999956 Status: OK.  
 Std Error of Est: 0.000002  
 Predicted MDL: 1.562448  
 Predicted MQL: 5.208161

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00069	-.001	.000	.00001	.000	1
CalStd3 5 pp	5.0000	5.5354	.535	10.7	.00022	.000	1
CalStd4 10 p	10.000	9.9369	-.063	-.631	.00039	.000	1
CalStd5 40 p	40.000	41.204	1.20	3.01	.00156	.000	1
CalStd6 50 p	50.000	50.229	.229	.458	.00190	.000	1
CalStd7 100	100.00	101.48	1.48	1.48	.00382	.000	1
CalStd8 200	200.00	198.76	-1.24	-.618	.00748	.000	1
CalStd9 100	1000.0	988.61	-11.4	-1.14	.03713	.000	1
CalStd10 20	2000.0	2009.2	9.25	.462	.07545	.000	1



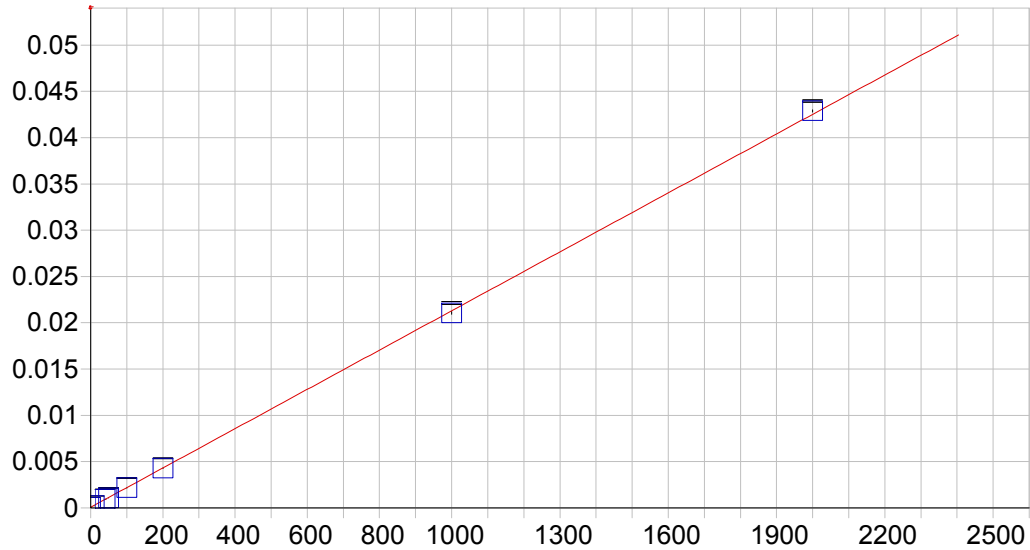
**Sb 206.833 {463}**

Date of Fit: 11/27/2023 14:08:21      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	0.000039	Re-Slope:	1.000000
A1 (Gain):	0.000022	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999915	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.329298		
Predicted MQL:	4.430995		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00207	.002	.000	.00004	.000	1
CalStd4 10 p	10.000	8.8240	-1.18	-11.8	.00024	.000	1
CalStd5 40 p	40.000	39.457	-.543	-1.36	.00092	.000	1
CalStd6 50 p	50.000	47.657	-2.34	-4.69	.00111	.000	1
CalStd7 100	100.00	98.441	-1.56	-1.56	.00225	.000	1
CalStd8 200	200.00	197.41	-2.59	-1.29	.00447	.000	1
CalStd9 100	1000.0	990.07	-9.93	-.993	.02224	.000	1
CalStd10 20	2000.0	2018.1	18.1	.907	.04529	.000	1



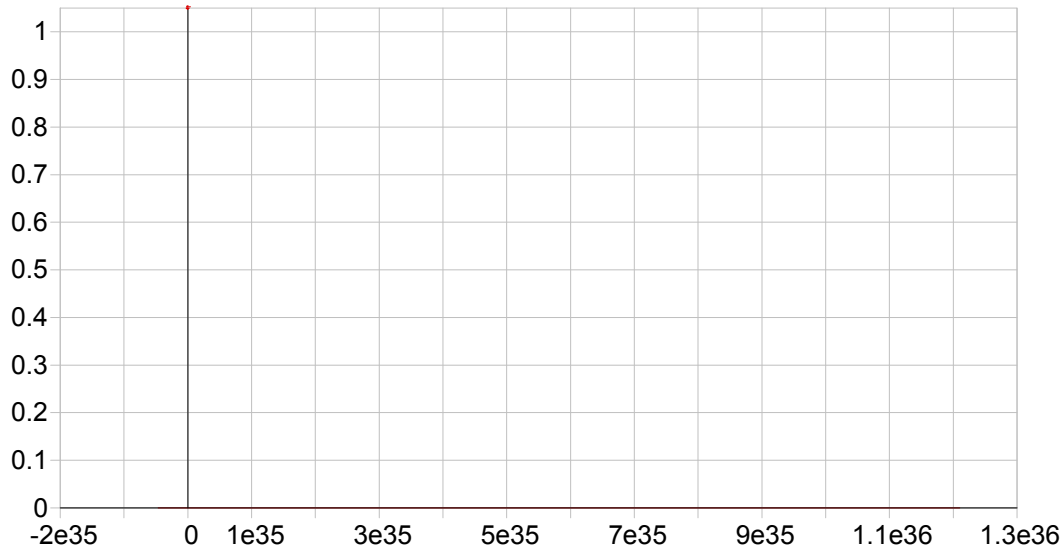


**Sb 217.581 {455}**

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000069 Re-Slope: 1.000000  
 A1 (Gain): 0.000021 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999869 Status: OK.  
 Std Error of Est: 0.000002  
 Predicted MDL: 1.610643  
 Predicted MQL: 5.368811

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00275	.003	.000	.00007	.000	1
CalStd4 10 p	10.000	7.7974	-2.20	-22.0	.00023	.000	1
CalStd5 40 p	40.000	40.537	.537	1.34	.00093	.000	1
CalStd6 50 p	50.000	47.627	-2.37	-4.75	.00108	.000	1
CalStd7 100	100.00	98.941	-1.06	-1.06	.00217	.000	1
CalStd8 200	200.00	198.45	-1.55	-.777	.00428	.000	1
CalStd9 100	1000.0	989.35	-10.7	-1.07	.02107	.000	1
CalStd10 20	2000.0	2017.3	17.3	.865	.04289	.000	1

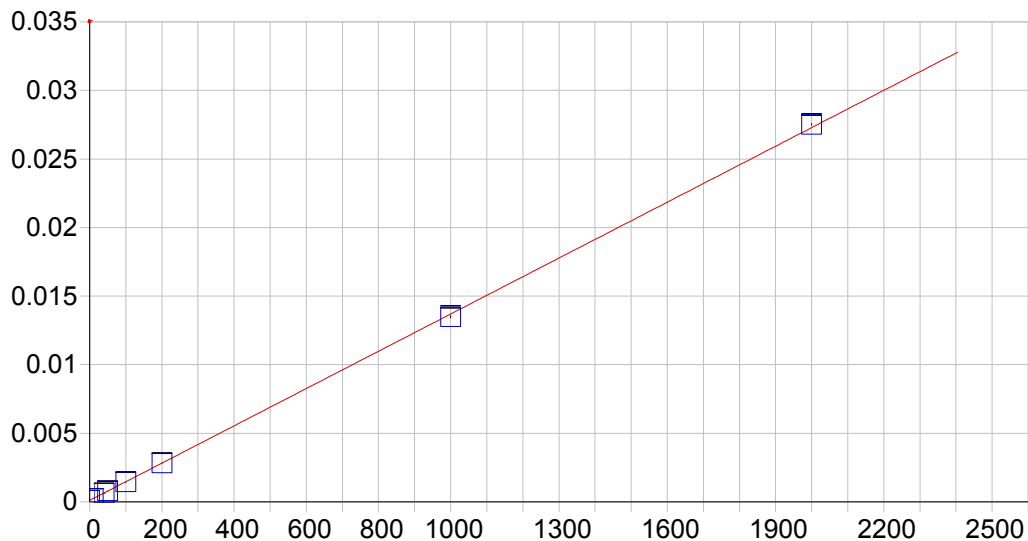


**Sc 361.384 { 93}\***

Date of Fit: <not fit> Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000000 Re-Slope: 1.000000  
 A1 (Gain): 0.000000 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.000000 Status: Warning Zero Gain  
 Std Error of Est: 0.000000  
 Predicted MDL: n/a  
 Predicted MQL: n/a

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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**Se 196.090 {472}**

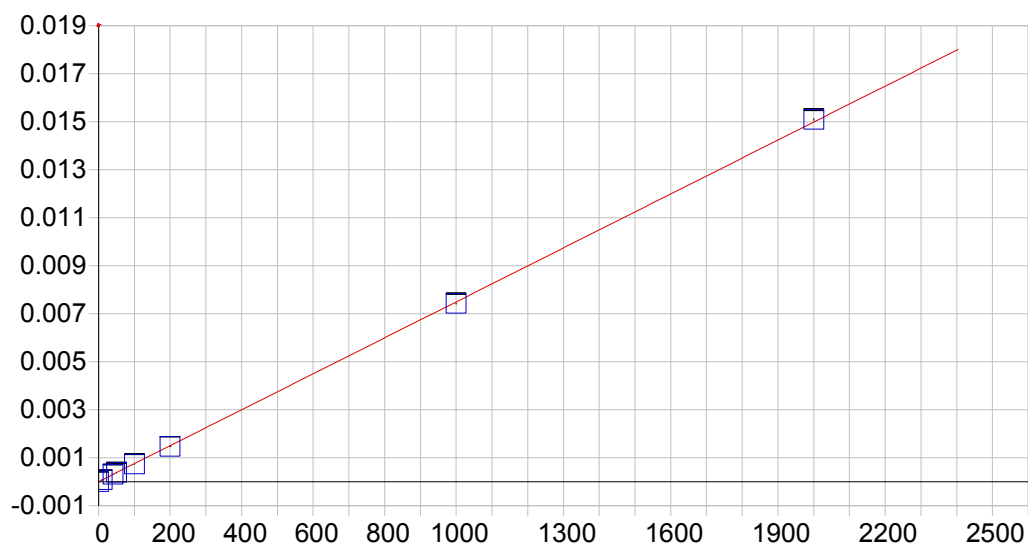
Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000105 Re-Slope: 1.000000  
 A1 (Gain): 0.000014 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999935  
 Std Error of Est: 0.000001  
 Predicted MDL: 1.770188  
 Predicted MQL: 5.900627

Status: OK.

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00003	.000	.000	.00011	.000	1
CalStd4 10 p	10.000	10.472	.472	4.72	.00025	.000	1
CalStd5 40 p	40.000	38.797	-1.20	-3.01	.00063	.000	1
CalStd6 50 p	50.000	49.908	-.092	-.184	.00078	.000	1
CalStd7 100	100.00	98.983	-1.02	-1.02	.00145	.000	1
CalStd8 200	200.00	199.69	-.310	-.155	.00282	.000	1
CalStd9 100	1000.0	985.04	-15.0	-1.50	.01349	.000	1
CalStd10 20	2000.0	2017.1	17.1	.856	.02752	.000	1



Se 203.985 {465}

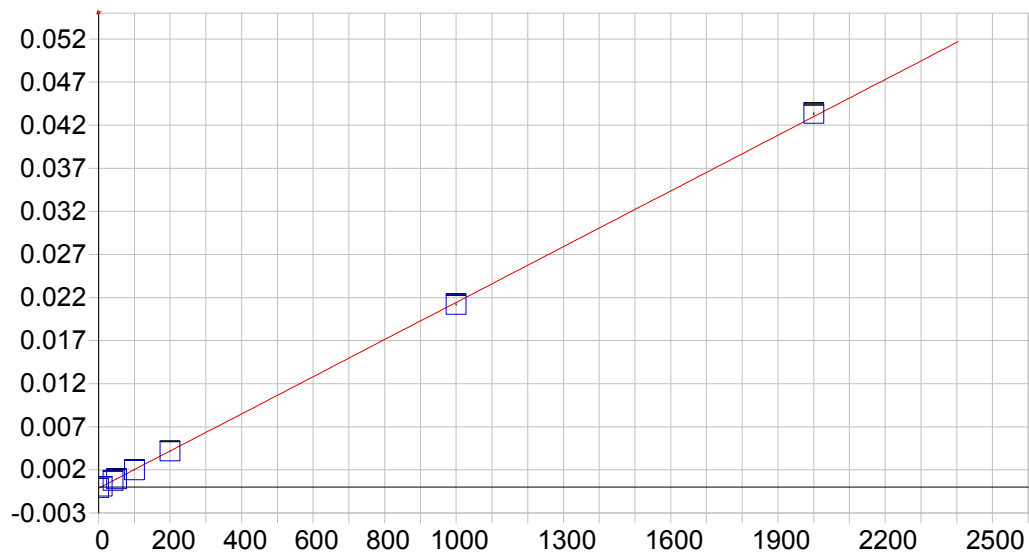
Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000004  
 A1 (Gain): 0.000007  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999946  
 Std Error of Est: 0.000001  
 Predicted MDL: 3.617266  
 Predicted MQL: 12.057555

Re-Slope: 1.000000  
 Y-int: 0.000000

Status: OK.

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00002	.000	.000	.00000	.000	1
CalStd4 10 p	10.000	10.163	.163	1.63	.00008	.000	1
CalStd5 40 p	40.000	40.761	.761	1.90	.00031	.000	1
CalStd6 50 p	50.000	50.421	.421	.842	.00038	.000	1
CalStd7 100	100.00	97.923	-2.08	-2.08	.00074	.000	1
CalStd8 200	200.00	195.34	-4.66	-2.33	.00147	.000	1
CalStd9 100	1000.0	990.69	-9.31	-.931	.00743	.000	1
CalStd10 20	2000.0	2014.7	14.7	.735	.01510	.000	1

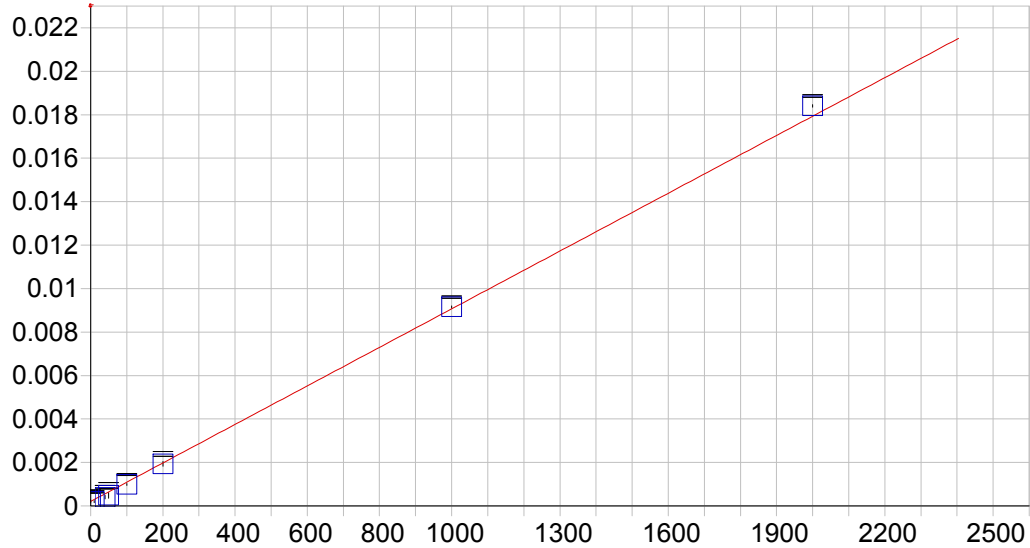


**TI 190.856 {477}**

Date of Fit: 11/27/2023 14:08:21      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	-0.000118	Re-Slope:	1.000000
A1 (Gain):	0.000022	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999938	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.023796		
Predicted MQL:	3.412654		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00134	.001	.000	-.00012	.000	1
CalStd4 10 p	10.000	9.0547	-.945	-9.45	.00008	.000	1
CalStd5 40 p	40.000	40.165	.165	.411	.00075	.000	1
CalStd6 50 p	50.000	49.432	-.568	-1.14	.00095	.000	1
CalStd7 100	100.00	97.447	-2.55	-2.55	.00198	.000	1
CalStd8 200	200.00	199.45	-.552	-.276	.00418	.000	1
CalStd9 100	1000.0	988.49	-11.5	-1.15	.02119	.000	1
CalStd10 20	2000.0	2016.0	16.0	.798	.04333	.000	1

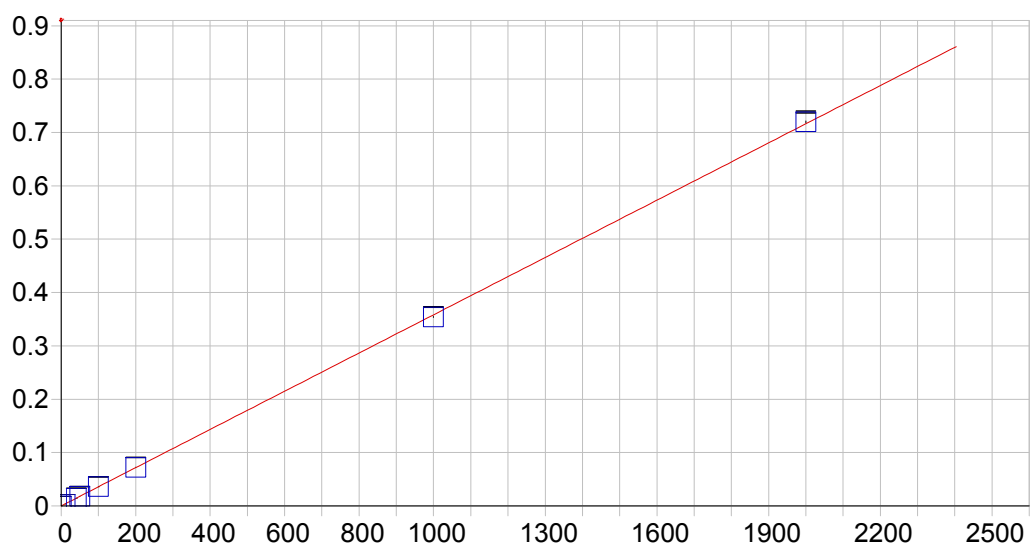


TI 276.787 {122}

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000204 Re-Slope: 1.000000  
A1 (Gain): 0.000009 Y-int: 0.000000  
A2 (Curvature): 0.000000  
n (Exponent): 1.000000  
Correlation: 0.995904 Status: OK.  
Std Error of Est: 0.000005  
Predicted MDL: 15.473792  
Predicted MQL: 51.579306

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01948	.019	.000	.00020	.000	1
CalStd4 10 p	10.000	-.46086	-10.5	-105.	.00020	.000	1
CalStd5 40 p	40.000	22.637	-17.4	-43.4	.00040	.000	1
CalStd6 50 p	50.000	32.017	-18.0	-36.0	.00049	.000	1
CalStd7 100	100.00	88.226	-11.8	-11.8	.00099	.000	1
CalStd8 200	200.00	194.69	-5.31	-2.65	.00193	.000	1
CalStd9 100	1000.0	1009.8	9.75	.975	.00915	.000	1
CalStd10 20	2000.0	2053.1	53.1	2.66	.01840	.000	1

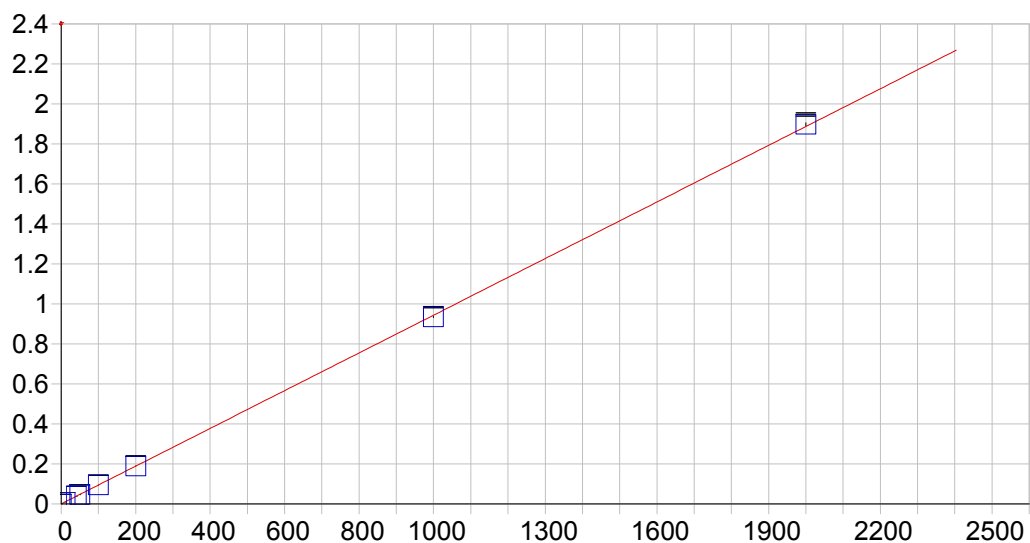


V 292.402 {115}

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000121 Re-Slope: 1.000000  
A1 (Gain): 0.000358 Y-int: 0.000000  
A2 (Curvature): 0.000000  
n (Exponent): 1.000000  
Correlation: 0.999971 Status: OK.  
Std Error of Est: 0.000018  
Predicted MDL: 0.441189  
Predicted MQL: 1.470631

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00004	.000	.000	.00012	.000	1
CalStd4 10 p	10.000	9.9305	-.069	-.695	.00368	.000	1
CalStd5 40 p	40.000	40.473	.473	1.18	.01461	.000	1
CalStd6 50 p	50.000	49.443	-.557	-1.11	.01783	.000	1
CalStd7 100	100.00	100.30	.296	.296	.03604	.000	1
CalStd8 200	200.00	201.23	1.23	.613	.07218	.000	1
CalStd9 100	1000.0	988.64	-11.4	-1.14	.35417	.001	1
CalStd10 20	2000.0	2010.0	9.99	.500	.71993	.002	1

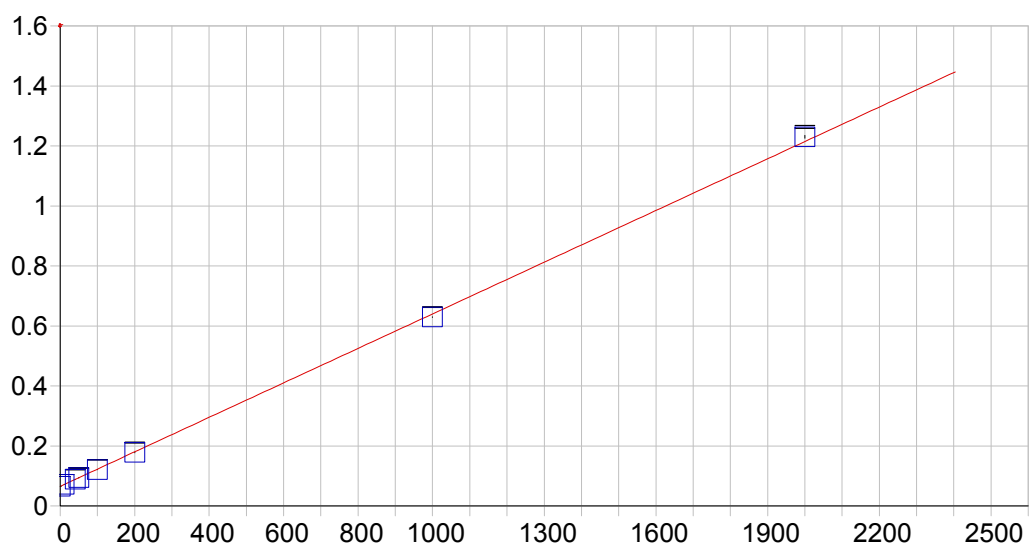


**V 309.311 {109}**

Date of Fit: 11/27/2023 14:08:21      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	0.000187	Re-Slope:	1.000000
A1 (Gain):	0.000943	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000047		
Predicted MDL:	0.251087		
Predicted MQL:	0.836958		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00034	.000	.000	.00019	.000	1
CalStd4 10 p	10.000	9.8390	-.161	-1.61	.00947	.000	1
CalStd5 40 p	40.000	40.109	.109	.272	.03803	.000	1
CalStd6 50 p	50.000	49.280	-.720	-1.44	.04668	.000	1
CalStd7 100	100.00	99.524	-.476	-.476	.09409	.001	1
CalStd8 200	200.00	200.75	.751	.375	.18959	.001	1
CalStd9 100	1000.0	989.70	-10.3	-1.03	.93395	.003	1
CalStd10 20	2000.0	2010.8	10.8	.540	1.8973	.008	1



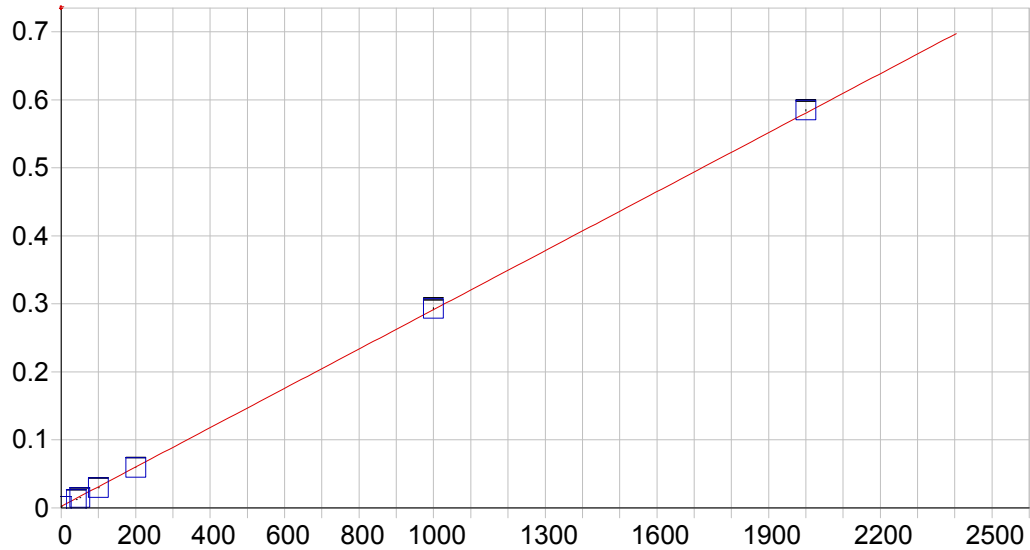
V 310.230 {109}

Date of Fit: 11/27/2023 14:08:21      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	0.065358	Re-Slope:	1.000000
A1 (Gain):	0.000575	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999855	Status:	OK.
Std Error of Est:	0.000066		
Predicted MDL:	0.317742		
Predicted MQL:	1.059140		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00044	.000	.000	.06536	.000	1
CalStd4 10 p	10.000	10.453	.453	4.53	.07136	.000	1
CalStd5 40 p	40.000	39.407	-.593	-1.48	.08800	.000	1
CalStd6 50 p	50.000	49.293	-.707	-1.41	.09368	.001	1
CalStd7 100	100.00	96.476	-3.52	-3.52	.12079	.001	1
CalStd8 200	200.00	196.15	-3.85	-1.92	.17807	.001	1
CalStd9 100	1000.0	980.78	-19.2	-1.92	.62892	.001	1
CalStd10 20	2000.0	2027.4	27.4	1.37	1.2303	.004	1



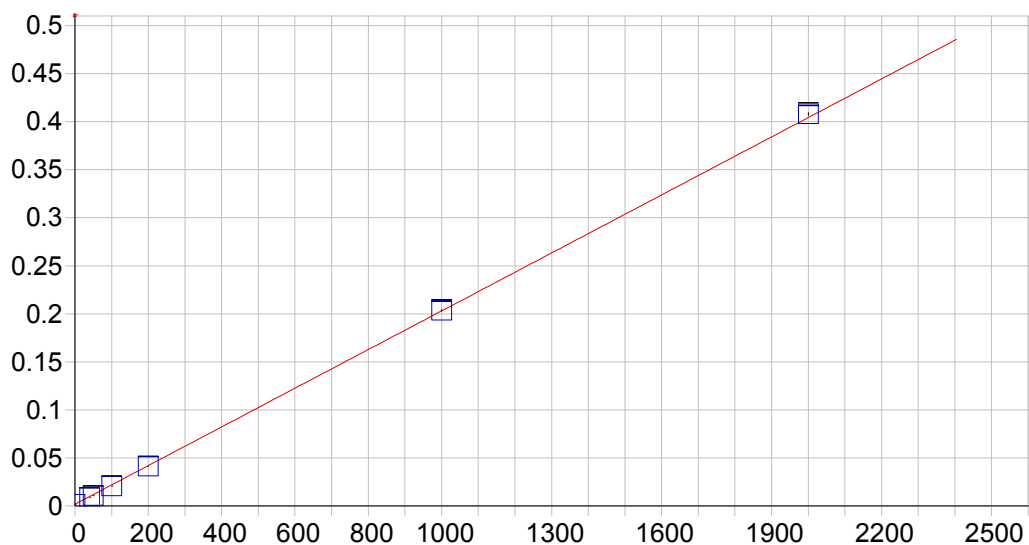


### Zn 202.548 {467}

Date of Fit: 11/27/2023 14:08:21      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	0.002328	Re-Slope:	1.000000
A1 (Gain):	0.000289	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999724	Status:	OK.
Std Error of Est:	0.000093		
Predicted MDL:	0.075468		
Predicted MQL:	0.251561		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01227	.012	.000	.00233	.000	1
CalStd5 40 p	40.000	34.642	-5.36	-13.4	.01235	.000	1
CalStd6 50 p	50.000	43.973	-6.03	-12.1	.01504	.000	1
CalStd7 100	100.00	94.862	-5.14	-5.14	.02976	.000	1
CalStd8 200	200.00	197.42	-2.58	-1.29	.05942	.000	1
CalStd9 100	1000.0	1005.2	5.18	.518	.29302	.002	1
CalStd10 20	2000.0	2013.9	13.9	.696	.58475	.001	1



### Zn 206.200 {464}

Date of Fit: 11/27/2023 14:08:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001707 Re-Slope: 1.000000  
 A1 (Gain): 0.000201 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999695 Status: OK.  
 Std Error of Est: 0.000068  
 Predicted MDL: 0.119318  
 Predicted MQL: 0.397728

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01293	.013	.000	.00171	.000	1
CalStd5 40 p	40.000	34.386	-5.61	-14.0	.00863	.000	1
CalStd6 50 p	50.000	43.962	-6.04	-12.1	.01056	.000	1
CalStd7 100	100.00	94.412	-5.59	-5.59	.02071	.000	1
CalStd8 200	200.00	196.43	-3.57	-1.79	.04124	.000	1
CalStd9 100	1000.0	1002.7	2.68	.268	.20352	.001	1
CalStd10 20	2000.0	2018.1	18.1	.907	.40791	.002	1

<b>Sample Type</b>	<b>Sample Name</b>	<b>Acquired Date/Time</b>
Standard	Blank	2023/11/27 12:07:12
Standard	CalStd1 1 ppb	2023/11/27 12:11:10
Standard	CalStd2 2 ppb	2023/11/27 12:15:07
Standard	CalStd3 5 ppb	2023/11/27 12:19:05
Standard	CalStd4 10 ppb	2023/11/27 12:23:05
Standard	CalStd5 40 ppb	2023/11/27 12:27:02
Standard	CalStd6 50 ppb	2023/11/27 12:30:53
Standard	CalStd7 100 ppb	2023/11/27 12:34:42
Standard	CalStd8 200 ppb	2023/11/27 12:38:24
Standard	CalStd9 1000 ppb	2023/11/27 12:42:14
Standard	CalStd10 2000 ppb	2023/11/27 12:46:29
QC	ICV	2023/11/27 12:50:56
QC	ICB	2023/11/27 12:55:12
Unknown	ICSA	2023/11/27 12:59:11
Unknown	ICSAB	2023/11/27 13:03:37
Unknown	1123-014.LB	2023/11/27 13:07:59
Unknown	1123-014.LCS	2023/11/27 13:11:57
Unknown	1123-014.1	2023/11/27 13:16:03
Unknown	1123-014.2	2023/11/27 13:20:13
Unknown	1123-014.2-DUP	2023/11/27 13:24:10
Unknown	1123-014.3	2023/11/27 13:28:08
Unknown	1123-014.3-MS	2023/11/27 13:32:14
Unknown	1123-014.4	2023/11/27 13:36:37
QC	ICV	2023/11/27 13:40:41
QC	ICB	2023/11/27 13:44:57
Unknown	1123-014.5	2023/11/27 13:48:57
QC	ICV	2023/11/27 13:53:02
QC	ICB	2023/11/27 13:57:18

## Simple Sample Report

Author:

Published: 11/27/2023 2:12:17PM

Notes:

Wavelengths reported for elements with more than one line ran:  
Al167, Ag328, As193, Ca393, Cd228, Co228, Cu324, Pb220,  
Mg280, Na589, Se196, Ti190, Zn206, Fe159, K766, and V292.  
These wavelengths have passing QC with exception to AB for  
K and Na. See comment on ICSAB. LMP 11/27/23

### Blank

Acquire Date: 11/27/2023 12:07:12PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0005580	Cts/S	0.00004700	8.430
Ag3382		0.0002010	Cts/S	0.0001830	90.98
Al1670		0.0003440	Cts/S	0.000004000	1.294
Al3082		0.03048	Cts/S	0.0001400	0.4606
Al3092	i	*****	Cts/S	-----	-----
As1890		-0.00005900	Cts/S	0.00001200	20.23
As1937		-0.00002900	Cts/S	0.00002900	101.5
Ba4554		0.01401	Cts/S	0.0004060	2.896
Be3130		0.003812	Cts/S	0.0001760	4.607
Ca3179		0.009962	Cts/S	0.0001080	1.088
Ca3933		1.277	Cts/S	0.002148	0.1682
Ca3968		0.8195	Cts/S	0.002080	0.2538
Cd2144		0.00003400	Cts/S	0.000007000	19.27
Cd2288		0.00008300	Cts/S	0.000009000	11.04
Co2286		-0.00004900	Cts/S	0.00002400	50.03
Co2388		0.0002270	Cts/S	0.00005100	22.57
Cr2677		0.0003940	Cts/S	0.0001300	32.99
Cu3247		0.002739	Cts/S	0.0002380	8.691
Cu3273		-0.003338	Cts/S	0.00002900	0.8811
Fe2382		0.0002270	Cts/S	0.00005300	23.41
Fe2395		0.0003830	Cts/S	0.00002300	6.074
Fe2599		0.0002630	Cts/S	0.00006100	23.13
K_7664		0.006479	Cts/S	0.0001290	1.995
K_7698		0.02530	Cts/S	0.0004440	1.755
Mg2795		0.004221	Cts/S	0.0002340	5.536
Mg2802		0.002886	Cts/S	0.0001920	6.637
Mn2576		0.0005930	Cts/S	0.00003300	5.638
Na5889		0.3814	Cts/S	0.002040	0.5350
Na5895		0.01952	Cts/S	0.0004830	2.473
Ni2316		-0.0001150	Cts/S	0.00002300	19.88
Pb1822		0.000006000	Cts/S	0.000009000	145.2
Pb2203		0.00001400	Cts/S	0.00003400	248.5
Sb2068		0.00003900	Cts/S	0.00001100	26.78
Sb2175		0.00006900	Cts/S	0.00001000	14.04
Se1960		0.0001050	Cts/S	0.00002200	21.04
Se2039		0.000004000	Cts/S	0.00002400	546.7
Ti1908		-0.0001180	Cts/S	0.000005000	4.467
Ti2767		0.0002040	Cts/S	0.00007300	35.79
V_2924		0.0001210	Cts/S	0.0001140	94.49
V_3093	i	*****	Cts/S	-----	-----
V_3102		0.06536	Cts/S	0.0002300	0.3512
Zn2025		0.002331	Cts/S	0.00002200	0.9251
Zn2062		0.001710	Cts/S	0.00003900	2.253
Sc3613		38,198	Cts/S	80.654	0.21115

**CalStd1 1 ppb**

Acquire Date: 11/27/2023 12:11:10PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Be3130		0.01774	Cts/S	0.0002860	1.614
Cd2144		0.0006500	Cts/S	0.00004400	6.749
Cd2288		0.0003520	Cts/S	0.00005800	16.36
Sc3613		38,094	Cts/S	341.62	0.89679

**CalStd2 2 ppb**

Acquire Date: 11/27/2023 12:15:07PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ba4554		0.05672	Cts/S	0.0003450	0.6091
Be3130		0.03215	Cts/S	0.0001030	0.3193
Cd2144		0.001312	Cts/S	0.000003000	0.2619
Cd2288		0.0006010	Cts/S	0.00003600	6.053
Cr2677		0.0009290	Cts/S	0.0001860	20.05
Mn2576		0.004862	Cts/S	0.00008200	1.684
Sc3613		37,914	Cts/S	14.042	0.037037

**CalStd3 5 ppb**

Acquire Date: 11/27/2023 12:19:05PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001430	Cts/S	0.00009900	6.945
Ag3382		0.001227	Cts/S	0.0001710	13.94
Ba4554		0.1204	Cts/S	0.0006380	0.5302
Be3130		0.07367	Cts/S	0.00006900	0.09311
Cd2144		0.003182	Cts/S	0.00003300	1.040
Cd2288		0.001325	Cts/S	0.00002600	1.972
Co2286		0.0005890	Cts/S	0.000004000	0.6566
Co2388		0.001185	Cts/S	0.00007600	6.398
Cr2677		0.001944	Cts/S	0.00008800	4.541
Mn2576		0.01162	Cts/S	0.00006500	0.5597
Ni2316		0.0004530	Cts/S	0.00001500	3.390
Pb1822		0.00004500	Cts/S	0.00001500	33.03
Pb2203		0.0002220	Cts/S	0.00003200	14.34
Sc3613		37,565	Cts/S	123.61	0.32905

**CalStd4 10 ppb**

Acquire Date: 11/27/2023 12:23:05PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.003707	Cts/S	0.00004200	1.139
Ag3382		0.002607	Cts/S	0.0001560	5.982
As1890		0.00005500	Cts/S	0.00002500	44.77

**CalStd4 10 ppb**

Acquire Date: 11/27/2023 12:23:05PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
As1937		0.0001080	Cts/S	0.00001400	12.66
Ba4554		0.2253	Cts/S	0.001248	0.5539
Be3130		0.1434	Cts/S	0.0005850	0.4083
Cd2144		0.006351	Cts/S	0.00002300	0.3617
Cd2288		0.002491	Cts/S	0.00005100	2.029
Co2286		0.001216	Cts/S	0.000005000	0.4395
Co2388		0.002091	Cts/S	0.00006200	2.948
Cr2677		0.003499	Cts/S	0.0001350	3.849
Cu3247		0.009059	Cts/S	0.0001600	1.762
Cu3273		0.0003650	Cts/S	0.0002490	68.26
Mn2576		0.02200	Cts/S	0.0002250	1.022
Na5889		0.4105	Cts/S	0.003249	0.7913
Na5895		0.03308	Cts/S	0.0004550	1.377
Ni2316		0.001006	Cts/S	0.00003800	3.804
Pb1822		0.0001100	Cts/S	0.00002600	23.76
Pb2203		0.0003870	Cts/S	0.00001100	2.753
Sb2068		0.0002370	Cts/S	0.00002300	9.806
Sb2175		0.0002340	Cts/S	0.00001300	5.413
Se1960		0.0002480	Cts/S	0.00001600	6.585
Se2039		0.00008000	Cts/S	0.00003100	38.67
Tl1908		0.00007700	Cts/S	0.00001400	18.63
Tl2767		0.0002000	Cts/S	0.00004700	23.44
V_2924		0.003677	Cts/S	0.00004300	1.165
V_3093	i	*****	Cts/S	----	----
V_3102		0.07137	Cts/S	0.0002510	0.3521
Sc3613		37,842	Cts/S	156.47	0.41350

**CalStd5 40 ppb**

Acquire Date: 11/27/2023 12:27:02PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.01622	Cts/S	0.0001980	1.220
Ag3382		0.01008	Cts/S	0.0001280	1.274
As1890		0.0004250	Cts/S	0.00002600	6.016
As1937		0.0005330	Cts/S	0.00001000	1.883
Ba4554		0.8646	Cts/S	0.001974	0.2283
Be3130		0.5654	Cts/S	0.0007280	0.1287
Cd2144		0.02545	Cts/S	0.00006700	0.2617
Cd2288		0.009711	Cts/S	0.00003300	0.3379
Co2286		0.005093	Cts/S	0.00003800	0.7499
Co2388		0.007879	Cts/S	0.0001420	1.799
Cr2677		0.01326	Cts/S	0.0001400	1.053
Cu3247		0.02866	Cts/S	0.0003820	1.332
Cu3273		0.01156	Cts/S	0.0001990	1.723
Mn2576		0.08755	Cts/S	0.0002080	0.2372
Na5889		0.5549	Cts/S	0.001054	0.1900
Na5895		0.1018	Cts/S	0.0006200	0.6093
Ni2316		0.004442	Cts/S	0.00006500	1.466
Pb1822		0.0003650	Cts/S	0.00002800	7.634
Pb2203		0.001561	Cts/S	0.00002600	1.667

**CalStd5 40 ppb**

Acquire Date: 11/27/2023 12:27:02PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Sb2068		0.0009240	Cts/S	0.00002900	3.167
Sb2175		0.0009290	Cts/S	0.00001000	1.098
Se1960		0.0006330	Cts/S	0.000003000	0.5309
Se2039		0.0003100	Cts/S	0.00001000	3.191
Ti1908		0.0007480	Cts/S	0.00002900	3.840
Ti2767		0.0004040	Cts/S	0.00008700	21.54
V_2924		0.01462	Cts/S	0.00007700	0.5241
V_3093	i	*****	Cts/S	----	----
V_3102		0.08800	Cts/S	0.0003310	0.3762
Zn2025		0.01235	Cts/S	0.00007300	0.5880
Zn2062		0.008628	Cts/S	0.00006900	0.7942
Sc3613		37,942	Cts/S	95.657	0.25211

**CalStd6 50 ppb**

Acquire Date: 11/27/2023 12:30:53PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.01989	Cts/S	0.0003220	1.617
Ag3382		0.01210	Cts/S	0.0002120	1.755
Al1670		0.001478	Cts/S	0.00001000	0.6887
Al3082		0.03129	Cts/S	0.0002460	0.7850
Al3092	i	*****	Cts/S	----	----
As1890		0.0005230	Cts/S	0.00002300	4.420
As1937		0.0006880	Cts/S	0.00001700	2.544
Ba4554		1.055	Cts/S	0.005634	0.5341
Be3130		0.6903	Cts/S	0.002127	0.3082
Ca3179		0.02487	Cts/S	0.0001650	0.6629
Ca3933		3.166	Cts/S	0.01461	0.4616
Ca3968		2.003	Cts/S	0.006778	0.3384
Cd2144		0.03116	Cts/S	0.0001990	0.6383
Cd2288		0.01183	Cts/S	0.0001070	0.9010
Co2286		0.006247	Cts/S	0.00004300	0.6827
Co2388		0.009577	Cts/S	0.00005500	0.5697
Cr2677		0.01618	Cts/S	0.0002290	1.414
Cu3247		0.03464	Cts/S	0.0002140	0.6175
Cu3273		0.01500	Cts/S	0.0002840	1.892
Fe2382		0.009376	Cts/S	0.00008500	0.9071
Fe2395		0.01020	Cts/S	0.0001970	1.929
Fe2599		0.01512	Cts/S	0.0001480	0.9809
K_7664		0.05163	Cts/S	0.0007250	1.405
K_7698		0.04612	Cts/S	0.0002750	0.5953
Mg2795		0.4890	Cts/S	0.001791	0.3662
Mg2802		0.3455	Cts/S	0.001077	0.3116
Mn2576		0.1073	Cts/S	0.0006910	0.6445
Na5889		0.5983	Cts/S	0.006286	1.051
Na5895		0.1221	Cts/S	0.001344	1.101
Ni2316		0.005403	Cts/S	0.00004700	0.8643
Pb1822		0.0004550	Cts/S	0.000003000	0.7331
Pb2203		0.001900	Cts/S	0.00003500	1.860
Sb2068		0.001108	Cts/S	0.00003600	3.214

**CalStd6 50 ppb**

Acquire Date: 11/27/2023 12:30:53PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Sb2175		0.001080	Cts/S	0.00002000	1.849
Se1960		0.0007840	Cts/S	0.00001500	1.870
Se2039		0.0003820	Cts/S	0.00001900	4.999
Tl1908		0.0009480	Cts/S	0.00002700	2.890
Tl2767		0.0004880	Cts/S	0.0001310	26.92
V_2924		0.01783	Cts/S	0.0001790	1.006
V_3093	i	*****	Cts/S	-----	-----
V_3102		0.09368	Cts/S	0.0007400	0.7898
Zn2025		0.01505	Cts/S	0.00007500	0.5017
Zn2062		0.01056	Cts/S	0.00004900	0.4643
Sc3613		37,961	Cts/S	131.12	0.34541

**CalStd7 100 ppb**

Acquire Date: 11/27/2023 12:34:42PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.03998	Cts/S	0.00009700	0.2430
Ag3382		0.02447	Cts/S	0.0001250	0.5124
Al1670		0.002646	Cts/S	0.00002000	0.7709
Al3082		0.03172	Cts/S	0.0001430	0.4507
Al3092	i	*****	Cts/S	-----	-----
As1890		0.001118	Cts/S	0.00002000	1.752
As1937		0.001412	Cts/S	0.00002400	1.724
Ba4554		2.115	Cts/S	0.006122	0.2895
Be3130		1.383	Cts/S	0.004060	0.2935
Ca3179		0.04617	Cts/S	0.0005220	1.130
Ca3933		5.899	Cts/S	0.01316	0.2231
Ca3968		3.735	Cts/S	0.01318	0.3530
Cd2144		0.06278	Cts/S	0.0001950	0.3111
Cd2288		0.02376	Cts/S	0.00004700	0.1993
Co2286		0.01272	Cts/S	0.00008400	0.6601
Co2388		0.01916	Cts/S	0.00009100	0.4770
Cr2677		0.03205	Cts/S	0.0001450	0.4539
Cu3247		0.06667	Cts/S	0.0002690	0.4036
Cu3273		0.03350	Cts/S	0.0001470	0.4387
Fe2382		0.01866	Cts/S	0.0001000	0.5340
Fe2395		0.02045	Cts/S	0.00009000	0.04481
Fe2599		0.03050	Cts/S	0.0001420	0.4658
K_7664		0.09975	Cts/S	0.0009020	0.9042
K_7698		0.06723	Cts/S	0.0008660	1.288
Mg2795		0.9764	Cts/S	0.003467	0.3551
Mg2802		0.6898	Cts/S	0.002343	0.3396
Mn2576		0.2158	Cts/S	0.001165	0.5399
Na5889		0.8396	Cts/S	0.007197	0.8573
Na5895		0.2379	Cts/S	0.0009370	0.3940
Ni2316		0.01101	Cts/S	0.00006600	0.5979
Pb1822		0.0008930	Cts/S	0.00001700	1.902
Pb2203		0.003823	Cts/S	0.00005500	1.438
Sb2068		0.002247	Cts/S	0.00002000	0.8878
Sb2175		0.002169	Cts/S	0.00001600	0.7290



**CalStd7 100 ppb**

Acquire Date: 11/27/2023 12:34:42PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Se1960		0.001451	Cts/S	0.00003000	2.079
Se2039		0.0007380	Cts/S	0.00002000	2.704
Tl1908		0.001983	Cts/S	0.00002300	1.143
Tl2767		0.0009860	Cts/S	0.00005100	5.149
V_2924		0.03604	Cts/S	0.0001660	0.4596
V_3093	i	*****	Cts/S	-----	-----
V_3102		0.1208	Cts/S	0.0005670	0.4694
Zn2025		0.02976	Cts/S	0.00008100	0.2717
Zn2062		0.02071	Cts/S	0.00007100	0.3435
Sc3613		38,070	Cts/S	141.56	0.37184

**CalStd8 200 ppb**

Acquire Date: 11/27/2023 12:38:24PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.08138	Cts/S	0.0006220	0.7647
Ag3382		0.04940	Cts/S	0.0001040	0.2107
Al1670		0.004976	Cts/S	0.00002300	0.4581
Al3082		0.03237	Cts/S	0.0001360	0.4215
Al3092	i	*****	Cts/S	-----	-----
As1890		0.002308	Cts/S	0.00002600	1.109
As1937		0.002843	Cts/S	0.00001800	0.6167
Ba4554		4.271	Cts/S	0.02180	0.5104
Be3130		2.786	Cts/S	0.008256	0.2963
Ca3179		0.09040	Cts/S	0.0003950	0.4368
Ca3933		11.55	Cts/S	0.1448	1.253
Ca3968		7.308	Cts/S	0.04624	0.6327
Cd2144		0.1261	Cts/S	0.0005270	0.4179
Cd2288		0.04761	Cts/S	0.0002470	0.5194
Co2286		0.02570	Cts/S	0.0001170	0.4571
Co2388		0.03804	Cts/S	0.0001420	0.3734
Cr2677		0.06434	Cts/S	0.0003340	0.5189
Cu3247		0.1309	Cts/S	0.0002390	0.1827
Cu3273		0.07094	Cts/S	0.0001790	0.2521
Fe2382		0.03738	Cts/S	0.0002060	0.5522
Fe2395		0.04121	Cts/S	0.0001740	0.4228
Fe2599		0.06114	Cts/S	0.00009700	0.1583
K_7664		0.1996	Cts/S	0.0006220	0.3116
K_7698		0.1129	Cts/S	0.001093	0.9683
Mg2795		1.978	Cts/S	0.008551	0.4324
Mg2802		1.387	Cts/S	0.005327	0.3840
Mn2576		0.4330	Cts/S	0.001546	0.3571
Na5889		1.327	Cts/S	0.008078	0.6087
Na5895		0.4702	Cts/S	0.002172	0.4619
Ni2316		0.02227	Cts/S	0.0001360	0.6112
Pb1822		0.001779	Cts/S	0.000007000	0.3803
Pb2203		0.007476	Cts/S	0.00004800	0.6475
Sb2068		0.004466	Cts/S	0.00004100	0.9196
Sb2175		0.004281	Cts/S	0.00003200	0.7471
Se1960		0.002819	Cts/S	0.00002800	0.9980

**CalStd8 200 ppb**

Acquire Date: 11/27/2023 12:38:24PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Se2039		0.001468	Cts/S	0.000004000	0.2690
Tl1908		0.004181	Cts/S	0.00004100	0.9724
Tl2767		0.001930	Cts/S	0.0001100	5.688
V_2924		0.07218	Cts/S	0.0002270	0.3141
V_3093	i	*****	Cts/S	-----	-----
V_3102		0.1781	Cts/S	0.0009210	0.5172
Zn2025		0.05942	Cts/S	0.0001820	0.3071
Zn2062		0.04124	Cts/S	0.0001700	0.4127
Sc3613		37,917	Cts/S	162.46	0.42846

**CalStd9 1000 ppb**

Acquire Date: 11/27/2023 12:42:14PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.4073	Cts/S	0.001068	0.2622
Ag3382		0.2454	Cts/S	0.0006360	0.2592
Al1670		0.02282	Cts/S	0.0001950	0.8562
Al3082		0.04243	Cts/S	0.0001660	0.3922
Al3092	i	*****	Cts/S	-----	-----
As1890		0.01163	Cts/S	0.00008600	0.7435
As1937		0.01427	Cts/S	0.00006700	0.4685
Ba4554		20.80	Cts/S	0.04137	0.1989
Be3130		13.82	Cts/S	0.08342	0.6038
Ca3179		0.4554	Cts/S	0.002372	0.5209
Ca3933		56.70	Cts/S	0.07919	0.1397
Ca3968		36.28	Cts/S	0.2149	0.5924
Cd2144		0.6154	Cts/S	0.003472	0.5642
Cd2288		0.2323	Cts/S	0.0008340	0.3590
Co2286		0.1266	Cts/S	0.0006270	0.4954
Co2388		0.1873	Cts/S	0.0009920	0.5296
Cr2677		0.3143	Cts/S	0.001068	0.3399
Cu3247		0.6333	Cts/S	0.002129	0.3362
Cu3273		0.3617	Cts/S	0.0004680	0.1294
Fe2382		0.1838	Cts/S	0.001110	0.6039
Fe2395		0.2029	Cts/S	0.001030	0.5075
Fe2599		0.2990	Cts/S	0.001453	0.4859
K_7664		1.044	Cts/S	0.002917	0.2794
K_7698		0.4958	Cts/S	0.001368	0.2758
Mg2795		9.697	Cts/S	0.08132	0.8387
Mg2802		6.835	Cts/S	0.02772	0.4055
Mn2576		2.113	Cts/S	0.006634	0.3139
Na5889		5.364	Cts/S	0.01592	0.2967
Na5895		2.431	Cts/S	0.007366	0.3030
Ni2316		0.1104	Cts/S	0.0004230	0.3831
Pb1822		0.008734	Cts/S	0.00008700	0.9940
Pb2203		0.03713	Cts/S	0.0002000	0.5386
Sb2068		0.02224	Cts/S	0.0001410	0.6353
Sb2175		0.02107	Cts/S	0.0001500	0.7131
Se1960		0.01349	Cts/S	0.00008300	0.6166
Se2039		0.007426	Cts/S	0.00002200	0.2911

**CalStd9 1000 ppb**

Acquire Date: 11/27/2023 12:42:14PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Tl1908		0.02119	Cts/S	0.0001040	0.4914
Tl2767		0.009155	Cts/S	0.00005400	0.5872
V_2924		0.3542	Cts/S	0.0008790	0.2482
V_3093	i	*****	Cts/S	-----	-----
V_3102		0.6289	Cts/S	0.001048	0.1667
Zn2025		0.2930	Cts/S	0.001643	0.5608
Zn2062		0.2035	Cts/S	0.0009620	0.4727
Sc3613		37,579	Cts/S	32.479	0.086429

**CalStd10 2000 ppb**

Acquire Date: 11/27/2023 12:46:29PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.8265	Cts/S	0.004138	0.5006
Ag3382		0.5104	Cts/S	0.0003580	0.07019
Al1670		0.04483	Cts/S	0.00006400	0.1430
Al3082		0.05482	Cts/S	0.0001560	0.2849
Al3092	i	*****	Cts/S	-----	-----
As1890		0.02375	Cts/S	0.00009600	0.4055
As1937		0.02918	Cts/S	0.00008700	0.2978
Ba4554		41.88	Cts/S	0.3039	0.7257
Be3130		27.58	Cts/S	0.05880	0.2132
Ca3179		0.8947	Cts/S	0.003535	0.3951
Ca3933		106.4	Cts/S	0.1643	0.1544
Ca3968		68.56	Cts/S	0.3787	0.5524
Cd2144		1.245	Cts/S	0.003696	0.2969
Cd2288		0.4716	Cts/S	0.001341	0.2843
Co2286		0.2571	Cts/S	0.0007550	0.2935
Co2388		0.3793	Cts/S	0.0005380	0.1419
Cr2677		0.6361	Cts/S	0.0004820	0.07579
Cu3247		1.285	Cts/S	0.0003900	0.03033
Cu3273		0.7370	Cts/S	0.0004740	0.06433
Fe2382		0.3696	Cts/S	0.0004440	0.1201
Fe2395		0.4107	Cts/S	0.001708	0.4158
Fe2599		0.6018	Cts/S	0.001180	0.1961
K_7664		2.229	Cts/S	0.003917	0.1757
K_7698		1.032	Cts/S	0.0006410	0.06213
Mg2795		19.16	Cts/S	0.1798	0.9384
Mg2802		13.61	Cts/S	0.01933	0.1420
Mn2576		4.274	Cts/S	0.01274	0.2981
Na5889		10.91	Cts/S	0.1136	1.041
Na5895		5.186	Cts/S	0.02231	0.4301
Ni2316		0.2232	Cts/S	0.0005620	0.2519
Pb1822		0.01771	Cts/S	0.00005500	0.3107
Pb2203		0.07545	Cts/S	0.0003120	0.4132
Sb2068		0.04529	Cts/S	0.0001090	0.2408
Sb2175		0.04289	Cts/S	0.0001110	0.2590
Se1960		0.02752	Cts/S	0.00005000	0.1804
Se2039		0.01510	Cts/S	0.00003900	0.2577
Tl1908		0.04333	Cts/S	0.0001320	0.3048

**CalStd10 2000 ppb**

Acquire Date: 11/27/2023 12:46:29PM

Sample Type: Standard

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Tl2767		0.01840	Cts/S	0.00005900	0.3189
V_2924		0.7199	Cts/S	0.001770	0.2459
V_3093	i	*****	Cts/S	-----	-----
V_3102		1.230	Cts/S	0.004420	0.3593
Zn2025		0.5848	Cts/S	0.001187	0.2030
Zn2062		0.4079	Cts/S	0.001503	0.3684
Sc3613		37,778	Cts/S	57.051	0.15102

**ICV**

Acquire Date: 11/27/2023 12:50:56PM

Sample Type: QC

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		982.1	ppb	9.005	0.9170
Ag3382		909.1	ppb	0.8466	0.09313
Al1670		1,007	ppb	3.665	0.3639
Al3082	F	1,697	ppb	50.11	2.953
Al3092	iF	*****	ppb	-----	-----
As1890		990.1	ppb	1.793	0.1811
As1937		989.1	ppb	3.277	0.3313
Ba4554		979.9	ppb	7.804	0.7965
Be3130		1,005	ppb	4.573	0.4549
Ca3179		1,026	ppb	6.640	0.6471
Ca3933		1,060	ppb	4.751	0.4481
Ca3968		1,067	ppb	6.075	0.5694
Cd2144		992.4	ppb	4.647	0.4683
Cd2288		987.9	ppb	3.676	0.3721
Co2286		987.0	ppb	2.590	0.2625
Co2388		995.9	ppb	2.287	0.2297
Cr2677		990.5	ppb	2.866	0.2894
Cu3247		988.8	ppb	3.984	0.4029
Cu3273		1,011	ppb	6.707	0.6631
Fe2382		1,052	ppb	1.144	0.1087
Fe2395		1,039	ppb	7.645	0.7358
Fe2599		1,047	ppb	0.7519	0.07183
K_7664		1,006	ppb	3.580	0.3558
K_7698		996.1	ppb	4.523	0.4540
Mg2795		1,005	ppb	7.976	0.7939
Mg2802		1,013	ppb	5.419	0.5350
Mn2576		987.5	ppb	5.690	0.5762
Na5889		1,008	ppb	2.187	0.2170
Na5895		997.2	ppb	1.440	0.1444
Ni2316		986.1	ppb	3.347	0.3394
Pb1822		986.8	ppb	3.955	0.4008
Pb2203		983.7	ppb	4.518	0.4593
Sb2068		985.1	ppb	3.068	0.3115
Sb2175		987.8	ppb	3.314	0.3355
Se1960		1,002	ppb	0.4427	0.04418
Se2039		996.6	ppb	11.49	1.152
Tl1908		983.7	ppb	3.848	0.3912
Tl2767		1,020	ppb	19.78	1.939

**ICV**

Acquire Date: 11/27/2023 12:50:56PM

Sample Type: QC

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
V_2924		996.1	ppb	1.609	0.1615
V_3093	i	*****	ppb	----	----
V_3102		970.4	ppb	7.017	0.7231
Zn2025		997.1	ppb	5.833	0.5850
Zn2062		997.6	ppb	3.657	0.3666
Sc3613		38,013	Cts/S	133.98	0.35245

**ICB**

Acquire Date: 11/27/2023 12:55:12PM

Sample Type: QC

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.1766	ppb	0.1664	94.24
Ag3382		-0.5062	ppb	1.023	202.0
Al1670		-1.079	ppb	0.5044	46.72
Al3082		38.30	ppb	39.97	104.4
Al3092	i	*****	ppb	----	----
As1890		1.876	ppb	1.057	56.34
As1937		-0.5111	ppb	0.4678	91.54
Ba4554		0.02287	ppb	0.02893	126.5
Be3130		0.03757	ppb	0.01660	44.18
Ca3179		-15.76	ppb	0.1956	1.241
Ca3933		-16.42	ppb	0.03106	0.1892
Ca3968		-16.35	ppb	0.03160	0.1932
Cd2144		-0.9845	ppb	0.01775	1.803
Cd2288		0.1915	ppb	0.09389	49.04
Co2286		0.02161	ppb	0.3169	1,467
Co2388		-0.05736	ppb	0.3176	553.8
Cr2677		-0.3023	ppb	0.4670	154.4
Cu3247		-0.2426	ppb	0.2051	84.53
Cu3273		0.1710	ppb	0.04677	27.36
Fe2382		-0.7590	ppb	0.3682	48.51
Fe2395		-0.5896	ppb	0.3469	58.84
Fe2599		-0.1964	ppb	0.1266	64.44
K_7664		-1.852	ppb	0.1325	7.155
K_7698		-1.249	ppb	1.800	144.2
Mg2795		-0.2516	ppb	0.03102	12.33
Mg2802		-0.2494	ppb	0.009814	3.935
Mn2576		-0.03392	ppb	0.05914	174.4
Na5889		-3.297	ppb	0.5360	16.26
Na5895		-3.945	ppb	0.08736	2.214
Ni2316		0.07335	ppb	0.2000	272.7
Pb1822		-0.5316	ppb	1.708	321.3
Pb2203		1.274	ppb	0.4332	33.99
Sb2068		0.7866	ppb	1.491	189.5
Sb2175		2.475	ppb	1.187	47.98
Se1960		0.1252	ppb	1.740	1,390
Se2039		1.325	ppb	1.979	149.4
Ti1908		-0.4417	ppb	1.132	256.3
Ti2767		2.936	ppb	12.10	412.1
V_2924		-0.6836	ppb	0.5604	81.98

**ICB**

Acquire Date: 11/27/2023 12:55:12PM

Sample Type: QC

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
V_3093	i	*****	ppb	-----	-----
V_3102		0.8445	ppb	0.5766	68.28
Zn2025		-6.074	ppb	0.1070	1.761
Zn2062		-6.187	ppb	0.05028	0.8127
Sc3613		38,028	Cts/S	101.61	0.26721

ICS Mix contains Al, Fe, Ca, and Mg, therefore these elements are exempt from ICSA/AB. LMP 11/27/23

**ICSA**

Acquire Date: 11/27/2023 12:59:11PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.004724	ppb	0.09749	2,064
Ag3382		10.14	ppb	0.2091	2.061
Al1670		13,940	ppb	10.28	0.07379
Al3082		26,790	ppb	164.9	0.6157
Al3092	i	*****	ppb	-----	-----
As1890		1.137	ppb	1.145	100.7
As1937		-1.228	ppb	1.663	135.4
Ba4554		0.1420	ppb	0.02550	17.95
Be3130		0.03107	ppb	0.008401	27.04
Ca3179		26,200	ppb	118.3	0.4515
Ca3933	^	0.0000	ppb	0.0000	0.0000
Ca3968	^	0.0000	ppb	0.0000	0.0000
Cd2144		-0.9106	ppb	0.02810	3.086
Cd2288		0.1556	ppb	0.1473	94.69
Co2286		-0.3471	ppb	0.06481	18.67
Co2388		-220.1	ppb	3.277	1.489
Cr2677		0.3095	ppb	0.3382	109.3
Cu3247		-1.506	ppb	0.1697	11.27
Cu3273		0.6163	ppb	0.1093	17.73
Fe2382		10,290	ppb	30.30	0.2944
Fe2395		10,020	ppb	41.81	0.4174
Fe2599		10,180	ppb	41.26	0.4053
K_7664		-2.221	ppb	1.101	49.57
K_7698		-1.629	ppb	0.5952	36.53
Mg2795		16,100	ppb	82.46	0.5123
Mg2802		20,290	ppb	39.15	0.1930
Mn2576		-0.2249	ppb	0.006074	2.701
Na5889		1.497	ppb	0.7329	48.97
Na5895		0.2466	ppb	0.3480	141.1
Ni2316		0.2995	ppb	0.03634	12.13
Pb1822		6.185	ppb	3.264	52.77
Pb2203		0.2609	ppb	0.7481	286.8
Sb2068		-0.8406	ppb	0.7256	86.32
Sb2175		0.6819	ppb	0.3726	54.64
Se1960		-1.030	ppb	1.297	125.9
Se2039		-1.888	ppb	2.280	120.8
Ti1908		0.05723	ppb	0.2983	521.2
Ti2767		-101.4	ppb	3.627	3.577
V_2924		-0.3394	ppb	0.4297	126.6
V_3093	i	*****	ppb	-----	-----

**ICSA**

Acquire Date: 11/27/2023 12:59:11PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
V_3102		2.803	ppb	1.024	36.54
Zn2025		-7.952	ppb	0.1115	1.402
Zn2062		-5.620	ppb	0.07946	1.414
Sc3613		37,134	Cts/S	153.94	0.41454

Na and K do not meet ICSAB requirements, however it is not required by the method. LMP 11/27/23

**ICSAB**

Acquire Date: 11/27/2023 1:03:37PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		1,006	ppb	3.883	0.3858
Ag3382		1,004	ppb	3.053	0.3041
Al1670		14,400	ppb	47.87	0.3326
Al3082		29,290	ppb	230.4	0.7868
Al3092	i	*****	ppb	-----	-----
As1890		1,016	ppb	4.680	0.4606
As1937		1,008	ppb	8.317	0.8249
Ba4554		1,008	ppb	3.158	0.3133
Be3130		1,021	ppb	5.987	0.5864
Ca3179		28,450	ppb	90.04	0.3164
Ca3933	^	0.0000	ppb	0.0000	0.0000
Ca3968	^	0.0000	ppb	0.0000	0.0000
Cd2144		996.1	ppb	4.471	0.4488
Cd2288		1,007	ppb	4.960	0.4926
Co2286		976.0	ppb	4.686	0.4801
Co2388		759.2	ppb	2.601	0.3427
Cr2677		999.4	ppb	2.768	0.2769
Cu3247		999.2	ppb	0.5271	0.05276
Cu3273		1,000	ppb	5.111	0.5111
Fe2382		11,660	ppb	17.61	0.1510
Fe2395		11,450	ppb	43.78	0.3823
Fe2599		11,580	ppb	18.31	0.1582
K_7664		1,273	ppb	3.123	0.2453
K_7698		1,275	ppb	3.539	0.2776
Mg2795		16,880	ppb	41.25	0.2444
Mg2802		21,560	ppb	112.3	0.5208
Mn2576		989.7	ppb	3.546	0.3583
Na5889		1,241	ppb	1.111	0.08945
Na5895		1,233	ppb	0.8907	0.07225
Ni2316		978.3	ppb	2.033	0.2078
Pb1822		1,005	ppb	4.718	0.4693
Pb2203		992.6	ppb	4.497	0.4530
Sb2068		1,009	ppb	4.254	0.4214
Sb2175		1,015	ppb	7.672	0.7556
Se1960		1,019	ppb	6.368	0.6249
Se2039		1,018	ppb	6.476	0.6360
Tl1908		1,006	ppb	6.162	0.6127
Tl2767		955.5	ppb	15.06	1.576
V_2924		1,011	ppb	3.555	0.3515
V_3093	i	*****	ppb	-----	-----
V_3102		1,000	ppb	4.957	0.4955

**ICSAB**

Acquire Date: 11/27/2023 1:03:37PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Zn2025		991.1	ppb	3.523	0.3554
Zn2062		991.0	ppb	3.982	0.4018
Sc3613		37,054	Cts/S	121.97	0.32917

**1123-014.LB**

Acquire Date: 11/27/2023 1:07:59PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.01769	ppb	0.2866	1,621
Ag3382		-0.5629	ppb	0.4040	71.76
Al1670		2.500	ppb	0.7513	30.05
Al3082		56.72	ppb	20.34	35.85
Al3092	i	*****	ppb	-----	-----
As1890		-0.4272	ppb	1.759	411.6
As1937		1.430	ppb	1.172	81.97
Ba4554		0.09755	ppb	0.03159	32.38
Be3130		0.03641	ppb	0.02279	62.59
Ca3179		25.07	ppb	0.4964	1.980
Ca3933		26.06	ppb	0.3755	1.441
Ca3968		25.41	ppb	0.3876	1.525
Cd2144		-0.9905	ppb	0.05813	5.869
Cd2288		0.02527	ppb	0.09674	382.8
Co2286		-0.2651	ppb	0.2039	76.91
Co2388		-0.9078	ppb	0.4645	51.16
Cr2677		0.3414	ppb	0.3233	94.69
Cu3247		-0.1609	ppb	0.1883	117.1
Cu3273		-0.04961	ppb	0.6391	1,288
Fe2382		8.444	ppb	0.6183	7.323
Fe2395		8.308	ppb	0.5902	7.104
Fe2599		8.538	ppb	0.4867	5.700
K_7664		4.598	ppb	1.208	26.27
K_7698		-13.98	ppb	1.094	7.827
Mg2795		1.418	ppb	0.4533	31.96
Mg2802		1.407	ppb	0.4817	34.22
Mn2576		0.05318	ppb	0.01199	22.54
Na5889		0.4488	ppb	1.477	329.2
Na5895		-0.4461	ppb	0.3493	78.31
Ni2316		-0.1609	ppb	0.4476	278.1
Pb1822		3.291	ppb	2.154	65.47
Pb2203		0.7722	ppb	0.5758	74.57
Sb2068		-1.320	ppb	1.101	83.40
Sb2175		0.8442	ppb	0.4829	57.20
Se1960		-0.8491	ppb	1.728	203.5
Se2039		1.263	ppb	2.863	226.7
Tl1908		0.2473	ppb	0.8356	337.9
Tl2767		-8.080	ppb	12.91	159.8
V_2924		-0.2381	ppb	0.5077	213.2
V_3093	i	*****	ppb	-----	-----
V_3102		2.126	ppb	0.4976	23.40
Zn2025		-3.800	ppb	0.05389	1.418



**1123-014.LB**

Acquire Date: 11/27/2023 1:07:59PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Zn2062		-4.031	ppb	0.1530	3.796
Sc3613		38,220	Cts/S	351.78	0.92042

LCS was inadvertently prepped at 400 ppb. LMP 11/27/23

**1123-014.LCS**

Acquire Date: 11/27/2023 1:11:57PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		408.5	ppb	1.151	0.2818
Ag3382		400.1	ppb	1.952	0.4879
Al1670		420.7	ppb	1.330	0.3162
Al3082		414.6	ppb	22.87	5.517
Al3092	i	*****	ppb	-----	-----
As1890		407.7	ppb	0.9143	0.2242
As1937		406.6	ppb	0.3333	0.08198
Ba4554		408.9	ppb	4.068	0.9948
Be3130		405.8	ppb	1.880	0.4632
Ca3179		425.4	ppb	2.243	0.5274
Ca3933		439.5	ppb	1.826	0.4155
Ca3968		436.0	ppb	3.476	0.7972
Cd2144		408.8	ppb	0.3970	0.09711
Cd2288		408.1	ppb	1.196	0.2931
Co2286		410.4	ppb	0.5603	0.1365
Co2388		408.8	ppb	1.186	0.2901
Cr2677		410.6	ppb	2.717	0.6617
Cu3247		408.9	ppb	1.814	0.4437
Cu3273		407.9	ppb	1.804	0.4423
Fe2382		413.8	ppb	2.295	0.5545
Fe2395		412.7	ppb	1.727	0.4185
Fe2599		416.3	ppb	1.858	0.4463
K_7664		405.2	ppb	1.341	0.3309
K_7698		386.9	ppb	2.409	0.6226
Mg2795		416.2	ppb	2.130	0.5118
Mg2802		412.1	ppb	2.266	0.5500
Mn2576		409.8	ppb	1.774	0.4330
Na5889		395.9	ppb	1.386	0.3501
Na5895		389.6	ppb	0.5824	0.1495
Ni2316		409.6	ppb	0.8536	0.2084
Pb1822		407.9	ppb	1.987	0.4871
Pb2203		405.8	ppb	3.188	0.7855
Sb2068		408.8	ppb	1.384	0.3386
Sb2175		410.0	ppb	2.062	0.5030
Se1960		407.1	ppb	3.835	0.9421
Se2039		405.2	ppb	2.511	0.6197
Tl1908		403.7	ppb	0.6665	0.1651
Tl2767		415.3	ppb	4.706	1.133
V_2924		410.6	ppb	1.727	0.4206
V_3093	i	*****	ppb	-----	-----
V_3102		397.3	ppb	2.369	0.5963
Zn2025		409.1	ppb	0.1502	0.03672
Zn2062		411.6	ppb	0.7800	0.1895

**1123-014.LCS**

Acquire Date: 11/27/2023 1:11:57PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Sc3613		38,327	Cts/S	111.97	0.29214

**1123-014.1**

Acquire Date: 11/27/2023 1:16:03PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.07592	ppb	0.2332	307.2
Ag3382		-0.3826	ppb	0.4237	110.7
Al1670		16.07	ppb	1.185	7.370
Al3082		106.7	ppb	26.95	25.25
Al3092	i	*****	ppb	----	----
As1890		0.5603	ppb	1.108	197.8
As1937		-1.023	ppb	0.6639	64.90
Ba4554		2.120	ppb	0.04337	2.046
Be3130		0.03106	ppb	0.02512	80.87
Ca3179		180.2	ppb	0.8463	0.4696
Ca3933		187.2	ppb	0.8592	0.4589
Ca3968		185.1	ppb	0.4820	0.2605
Cd2144		-0.9677	ppb	0.04942	5.107
Cd2288		0.1890	ppb	0.04768	25.23
Co2286		-0.06320	ppb	0.2325	367.9
Co2388		-1.638	ppb	0.3099	18.92
Cr2677		9.904	ppb	0.3242	3.273
Cu3247		6.357	ppb	0.2537	3.991
Cu3273		6.340	ppb	0.3685	5.812
Fe2382		79.37	ppb	0.02981	0.03756
Fe2395		77.78	ppb	0.5638	0.7250
Fe2599		79.68	ppb	0.9404	1.180
K_7664		47.95	ppb	1.283	2.677
K_7698		27.20	ppb	1.375	5.053
Mg2795		24.25	ppb	0.4486	1.850
Mg2802		24.13	ppb	0.4596	1.905
Mn2576		3.057	ppb	0.05771	1.887
Na5889		383.5	ppb	3.376	0.8805
Na5895		377.1	ppb	3.395	0.9002
Ni2316		1.243	ppb	0.1654	13.31
Pb1822		8.533	ppb	1.382	16.20
Pb2203		1.976	ppb	1.421	71.91
Sb2068		0.8195	ppb	0.6678	81.49
Sb2175		0.3206	ppb	0.1665	51.95
Se1960		0.3428	ppb	1.640	478.6
Se2039		0.6869	ppb	4.054	590.2
Tl1908		-1.087	ppb	0.2920	26.87
Tl2767		-15.04	ppb	6.636	44.12
V_2924		-0.2015	ppb	0.08214	40.76
V_3093	i	*****	ppb	----	----
V_3102		3.859	ppb	1.112	28.81
Zn2025		27.70	ppb	0.1021	0.3687
Zn2062		27.60	ppb	0.1972	0.7144
Sc3613		38,340	Cts/S	127.44	0.33240

**1123-014.2**

Acquire Date: 11/27/2023 1:20:13PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.02668	ppb	0.5433	2,037
Ag3382		0.1507	ppb	0.6073	402.9
Al1670		8.155	ppb	0.5549	6.804
Al3082		113.5	ppb	13.96	12.30
Al3092	i	*****	ppb	-----	-----
As1890		-0.6394	ppb	0.9490	148.4
As1937		0.2084	ppb	2.062	989.6
Ba4554		1.469	ppb	0.01556	1.059
Be3130		0.01344	ppb	0.005653	42.06
Ca3179		94.61	ppb	0.3675	0.3884
Ca3933		98.74	ppb	0.4480	0.4537
Ca3968		97.07	ppb	0.4456	0.4590
Cd2144		-0.9771	ppb	0.02223	2.275
Cd2288		0.1722	ppb	0.1387	80.54
Co2286		0.04328	ppb	0.3186	736.1
Co2388		-0.9155	ppb	0.5549	60.61
Cr2677		7.988	ppb	0.1473	1.844
Cu3247		3.515	ppb	0.2129	6.057
Cu3273		3.495	ppb	0.09235	2.642
Fe2382		36.72	ppb	0.7704	2.098
Fe2395		36.05	ppb	0.3196	0.8867
Fe2599		36.60	ppb	0.09148	0.2500
K_7664		44.13	ppb	1.023	2.317
K_7698		24.38	ppb	1.306	5.358
Mg2795		18.43	ppb	0.1121	0.6081
Mg2802		18.33	ppb	0.1143	0.6238
Mn2576		1.099	ppb	0.06154	5.597
Na5889		388.4	ppb	0.9082	0.2338
Na5895		382.6	ppb	0.5630	0.1472
Ni2316		1.172	ppb	0.2972	25.36
Pb1822		6.741	ppb	1.528	22.66
Pb2203		-0.8117	ppb	0.5349	65.90
Sb2068		0.01822	ppb	1.355	7,438
Sb2175		-0.9006	ppb	0.8958	99.47
Se1960		2.613	ppb	0.6661	25.50
Se2039		0.6129	ppb	1.910	311.6
Ti1908		-0.7920	ppb	1.343	169.5
Ti2767		-5.390	ppb	4.804	89.13
V_2924		-0.3315	ppb	0.1348	40.68
V_3093	i	*****	ppb	-----	-----
V_3102		3.717	ppb	0.3992	10.74
Zn2025		14.85	ppb	0.04058	0.2732
Zn2062		14.94	ppb	0.1403	0.9394
Sc3613		38,325	Cts/S	205.31	0.53572

**1123-014.2-DUP**

Acquire Date: 11/27/2023 1:24:10PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

**1123-014.2-DUP**

Acquire Date: 11/27/2023 1:24:10PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.2331	ppb	0.1474	63.24
Ag3382		-0.02734	ppb	0.5332	1,950
Al1670		7.729	ppb	0.5029	6.507
Al3082		79.45	ppb	21.95	27.63
Al3092	i	*****	ppb	-----	-----
As1890		0.08253	ppb	1.144	1,386
As1937		0.3429	ppb	2.143	624.8
Ba4554		1.825	ppb	0.01480	0.8107
Be3130		-0.0004260	ppb	0.01062	2,492
Ca3179		93.63	ppb	0.5520	0.5895
Ca3933		98.98	ppb	0.09814	0.09915
Ca3968		97.19	ppb	0.07071	0.07276
Cd2144		-1.011	ppb	0.03147	3.113
Cd2288		0.2122	ppb	0.05112	24.09
Co2286		-0.2171	ppb	0.1295	59.65
Co2388		-0.6645	ppb	0.8399	126.4
Cr2677		8.438	ppb	0.2409	2.855
Cu3247		3.665	ppb	0.09405	2.566
Cu3273		3.397	ppb	0.2806	8.259
Fe2382		36.39	ppb	0.7138	1.961
Fe2395		36.25	ppb	0.3034	0.8370
Fe2599		36.35	ppb	0.4687	1.289
K_7664		27.07	ppb	0.1905	0.7040
K_7698		6.420	ppb	0.4981	7.758
Mg2795		18.29	ppb	0.09592	0.5245
Mg2802		18.15	ppb	0.09543	0.5258
Mn2576		1.332	ppb	0.02488	1.868
Na5889		347.0	ppb	1.044	0.3007
Na5895		343.0	ppb	2.021	0.5893
Ni2316		1.249	ppb	0.1769	14.16
Pb1822		6.594	ppb	0.8744	13.26
Pb2203		0.3734	ppb	1.027	275.0
Sb2068		-2.610	ppb	0.4125	15.80
Sb2175		-0.9723	ppb	0.7110	73.12
Se1960		0.2558	ppb	1.148	448.8
Se2039		0.1004	ppb	4.114	4,096
Ti1908		-1.048	ppb	0.5048	48.17
Ti2767		-22.71	ppb	7.332	32.28
V_2924		-0.1187	ppb	0.1220	102.8
V_3093	i	*****	ppb	-----	-----
V_3102		3.350	ppb	0.5189	15.49
Zn2025		18.89	ppb	0.09407	0.4979
Zn2062		18.61	ppb	0.2629	1.413
Sc3613		38,613	Cts/S	131.15	0.33965

**1123-014.3**

Acquire Date: 11/27/2023 1:28:08PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.1299	ppb	0.3199	246.2

**1123-014.3**

Acquire Date: 11/27/2023 1:28:08PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3382		-0.01185	ppb	0.6175	5,212
Al1670		12.18	ppb	0.2200	1.806
Al3082		97.71	ppb	18.88	19.32
Al3092	i	*****	ppb	-----	-----
As1890		-1.302	ppb	0.8080	62.07
As1937		-1.738	ppb	2.396	137.8
Ba4554		1.551	ppb	0.02581	1.664
Be3130		0.01367	ppb	0.01256	91.87
Ca3179		129.4	ppb	0.3402	0.2628
Ca3933		135.6	ppb	0.5828	0.4299
Ca3968		134.0	ppb	0.2129	0.1589
Cd2144		-0.9810	ppb	0.04347	4.431
Cd2288		0.08687	ppb	0.1973	227.1
Co2286		-0.1142	ppb	0.2093	183.3
Co2388		-0.7072	ppb	0.4239	59.94
Cr2677		6.306	ppb	0.07326	1.162
Cu3247		3.412	ppb	0.1410	4.133
Cu3273		3.921	ppb	0.4381	11.17
Fe2382		23.51	ppb	0.4310	1.833
Fe2395		22.33	ppb	0.05124	0.2295
Fe2599		23.57	ppb	0.1799	0.7631
K_7664		35.75	ppb	0.6919	1.935
K_7698		15.04	ppb	0.4695	3.121
Mg2795		22.02	ppb	0.05982	0.2717
Mg2802		21.97	ppb	0.04960	0.2257
Mn2576		0.6629	ppb	0.02522	3.805
Na5889		379.1	ppb	0.7903	0.2085
Na5895		376.1	ppb	0.5733	0.1524
Ni2316		1.324	ppb	0.2352	17.76
Pb1822		8.194	ppb	2.284	27.87
Pb2203		1.983	ppb	0.9389	47.34
Sb2068		-1.404	ppb	0.2417	17.21
Sb2175		-1.662	ppb	0.5456	32.82
Se1960		2.274	ppb	0.3864	16.99
Se2039		0.04613	ppb	0.8093	1,754
Tl1908		-1.561	ppb	0.2286	14.64
Tl2767		-4.658	ppb	18.08	388.1
V_2924		-0.2115	ppb	0.09086	42.95
V_3093	i	*****	ppb	-----	-----
V_3102		2.565	ppb	0.3900	15.20
Zn2025		5.927	ppb	0.07369	1.243
Zn2062		5.700	ppb	0.2223	3.900
Sc3613		38,845	Cts/S	153.64	0.39552

1123-014.3 was utilized for the MS due to lack of sample solution from 1123-014.1. In a previous run, the MS was inadvertently prepped at 5 ppm instead of 1 ppm. LMP 11/27/23

**1123-014.3-MS**

Acquire Date: 11/27/2023 1:32:14PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		959.2	ppb	4.542	0.4735
Ag3382		961.4	ppb	4.192	0.4360

**1123-014.3-MS**

Acquire Date: 11/27/2023 1:32:14PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		1,027	ppb	7.013	0.6827
Al3082		1,049	ppb	34.31	3.270
Al3092	i	*****	ppb	-----	-----
As1890		1,003	ppb	4.975	0.4960
As1937		1,001	ppb	10.22	1.021
Ba4554		1,020	ppb	6.861	0.6728
Be3130		994.6	ppb	3.374	0.3393
Ca3179		1,146	ppb	7.378	0.6437
Ca3933		1,182	ppb	5.674	0.4801
Ca3968		1,173	ppb	6.978	0.5948
Cd2144		994.8	ppb	3.397	0.3414
Cd2288		995.3	ppb	2.101	0.2110
Co2286		1,001	ppb	3.827	0.3823
Co2388		1,010	ppb	1.628	0.1612
Cr2677		1,015	ppb	2.357	0.2323
Cu3247		1,014	ppb	4.104	0.4046
Cu3273		1,014	ppb	4.264	0.4204
Fe2382		1,036	ppb	2.682	0.2588
Fe2395		1,021	ppb	6.733	0.6593
Fe2599		1,036	ppb	2.692	0.2598
K_7664		1,094	ppb	2.698	0.2465
K_7698		1,071	ppb	4.941	0.4612
Mg2795		1,018	ppb	5.168	0.5077
Mg2802		1,028	ppb	3.968	0.3861
Mn2576		998.8	ppb	3.697	0.3702
Na5889		1,415	ppb	1.581	0.1117
Na5895		1,414	ppb	4.544	0.3213
Ni2316		1,004	ppb	4.687	0.4666
Pb1822		1,004	ppb	8.910	0.8873
Pb2203		997.8	ppb	4.844	0.4855
Sb2068		1,000.0	ppb	4.505	0.4505
Sb2175		1,000	ppb	3.505	0.3505
Se1960		1,009	ppb	7.587	0.7522
Se2039		1,004	ppb	7.928	0.7895
Ti1908		996.0	ppb	3.951	0.3967
Ti2767		1,028	ppb	18.43	1.792
V_2924		1,009	ppb	4.604	0.4562
V_3093	i	*****	ppb	-----	-----
V_3102		988.9	ppb	6.699	0.6775
Zn2025		1,012	ppb	4.611	0.4555
Zn2062		1,013	ppb	4.484	0.4428
Sc3613		38,565	Cts/S	163.60	0.42422

**1123-014.4**

Acquire Date: 11/27/2023 1:36:37PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.1913	ppb	0.2061	107.8
Ag3382		0.06654	ppb	1.003	1,507
Al1670		8.989	ppb	0.1669	1.857

**1123-014.4**

Acquire Date: 11/27/2023 1:36:37PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al3082		80.88	ppb	17.07	21.11
Al3092	i	*****	ppb	-----	-----
As1890		-0.05345	ppb	1.319	2,467
As1937		0.6142	ppb	0.8357	136.1
Ba4554		1.078	ppb	0.01094	1.015
Be3130		0.02896	ppb	0.01671	57.68
Ca3179		115.1	ppb	0.09511	0.08265
Ca3933		119.6	ppb	2.183	1.825
Ca3968		118.5	ppb	0.3084	0.2603
Cd2144		-0.9668	ppb	0.02976	3.079
Cd2288		0.1356	ppb	0.05321	39.24
Co2286		-0.04339	ppb	0.1181	272.2
Co2388		-10.52	ppb	0.4076	3.873
Cr2677		9.925	ppb	0.08573	0.8638
Cu3247		3.578	ppb	0.08074	2.256
Cu3273		3.567	ppb	0.5783	16.22
Fe2382		487.7	ppb	1.882	0.3860
Fe2395		473.2	ppb	0.8140	0.1720
Fe2599		484.6	ppb	3.089	0.6376
K_7664		34.01	ppb	0.005325	0.01566
K_7698		11.30	ppb	0.2181	1.929
Mg2795		20.03	ppb	0.1597	0.7973
Mg2802		19.99	ppb	0.1425	0.7131
Mn2576		4.033	ppb	0.01494	0.3705
Na5889		399.4	ppb	0.9492	0.2377
Na5895		394.5	ppb	1.380	0.3499
Ni2316		1.594	ppb	0.02464	1.546
Pb1822		6.941	ppb	1.459	21.01
Pb2203		0.02505	ppb	0.4246	1,695
Sb2068		-0.2249	ppb	1.774	788.8
Sb2175		0.6547	ppb	1.521	232.4
Se1960		0.6972	ppb	1.276	183.0
Se2039		-0.1243	ppb	2.640	2,124
Ti1908		-1.889	ppb	0.6751	35.75
Ti2767		-11.99	ppb	8.607	71.77
V_2924		-0.6127	ppb	0.05490	8.960
V_3093	i	*****	ppb	-----	-----
V_3102		2.424	ppb	0.2923	12.06
Zn2025		15.89	ppb	0.06234	0.3922
Zn2062		15.82	ppb	0.09490	0.5997
Sc3613		38,838	Cts/S	77.002	0.19826

**ICV**

Acquire Date: 11/27/2023 1:40:41PM

Sample Type: QC

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		994.9	ppb	3.994	0.4015
Ag3382		908.1	ppb	0.9015	0.09927
Al1670		1,008	ppb	1.051	0.1043
Al3082	F	1,756	ppb	20.26	1.153

**ICV**

Acquire Date: 11/27/2023 1:40:41PM

Sample Type: QC

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al3092	iF	*****	ppb	-----	-----
As1890		988.5	ppb	2.599	0.2629
As1937		989.0	ppb	5.930	0.5995
Ba4554		1,005	ppb	7.352	0.7317
Be3130		1,005	ppb	4.122	0.4101
Ca3179		1,033	ppb	1.621	0.1570
Ca3933		1,077	ppb	4.665	0.4330
Ca3968		1,076	ppb	10.05	0.9344
Cd2144		990.6	ppb	1.747	0.1763
Cd2288		990.6	ppb	2.405	0.2428
Co2286		987.8	ppb	1.553	0.1573
Co2388		989.1	ppb	1.238	0.1252
Cr2677		984.7	ppb	2.567	0.2607
Cu3247		993.5	ppb	0.8437	0.08492
Cu3273		1,019	ppb	0.9538	0.09361
Fe2382		1,040	ppb	5.481	0.5270
Fe2395		1,049	ppb	2.696	0.2570
Fe2599		1,042	ppb	2.018	0.1937
K_7664		1,015	ppb	2.135	0.2104
K_7698		1,011	ppb	3.322	0.3288
Mg2795		1,013	ppb	8.525	0.8416
Mg2802		1,014	ppb	1.199	0.1182
Mn2576		989.0	ppb	1.137	0.1150
Na5889		1,012	ppb	3.356	0.3315
Na5895		1,002	ppb	3.439	0.3434
Ni2316		985.5	ppb	1.601	0.1625
Pb1822		987.2	ppb	3.199	0.3241
Pb2203		988.3	ppb	2.258	0.2284
Sb2068		985.4	ppb	2.043	0.2073
Sb2175		990.3	ppb	3.347	0.3380
Se1960		1,004	ppb	3.583	0.3568
Se2039		999.4	ppb	1.192	0.1193
Tl1908		989.1	ppb	1.639	0.1657
Tl2767		1,010	ppb	14.22	1.408
V_2924		991.6	ppb	3.122	0.3148
V_3093	i	*****	ppb	-----	-----
V_3102		983.1	ppb	3.357	0.3414
Zn2025		995.3	ppb	1.341	0.1347
Zn2062		994.8	ppb	2.807	0.2822
Sc3613		37,405	Cts/S	170.00	0.45447

**ICB**

Acquire Date: 11/27/2023 1:44:57PM

Sample Type: QC

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.1097	ppb	0.3160	288.1
Ag3382		-0.3095	ppb	0.5034	162.7
Al1670		-0.4847	ppb	0.3106	64.09
Al3082	F	105.8	ppb	23.05	21.78
Al3092	i	*****	ppb	-----	-----



**ICB**

Acquire Date: 11/27/2023 1:44:57PM

Sample Type: QC

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
As1890		0.6070	ppb	0.8211	135.3
As1937		-0.8512	ppb	1.083	127.2
Ba4554		0.02547	ppb	0.03192	125.3
Be3130		0.03871	ppb	0.01030	26.61
Ca3179		-14.87	ppb	0.4299	2.892
Ca3933		-15.79	ppb	0.05832	0.3694
Ca3968		-15.73	ppb	0.03889	0.2472
Cd2144		-0.9780	ppb	0.03731	3.815
Cd2288		0.03357	ppb	0.1801	536.6
Co2286		0.01185	ppb	0.1051	887.0
Co2388		-0.03597	ppb	0.8366	2,326
Cr2677		-0.1013	ppb	0.07199	71.06
Cu3247		-0.1894	ppb	0.07124	37.61
Cu3273		0.1240	ppb	0.03137	25.30
Fe2382		-0.6858	ppb	0.2210	32.23
Fe2395		-0.5659	ppb	0.4631	81.83
Fe2599		-0.06982	ppb	0.7175	1,028
K_7664		-1.653	ppb	0.8310	50.26
K_7698		-0.4863	ppb	0.4364	89.74
Mg2795		-0.2104	ppb	0.05576	26.50
Mg2802		-0.2147	ppb	0.04977	23.18
Mn2576		-0.01300	ppb	0.02769	213.0
Na5889		-3.764	ppb	0.6582	17.49
Na5895		-3.388	ppb	0.2280	6.730
Ni2316		0.2556	ppb	0.3816	149.3
Pb1822		2.945	ppb	1.346	45.71
Pb2203		0.1838	ppb	0.5180	281.8
Sb2068		0.8458	ppb	1.441	170.4
Sb2175		2.181	ppb	0.9004	41.28
Se1960		-0.1987	ppb	1.378	693.6
Se2039		-0.7624	ppb	1.971	258.5
Tl1908		-0.1247	ppb	1.633	1,309
Tl2767		-8.444	ppb	14.56	172.4
V_2924		-0.1606	ppb	0.1915	119.2
V_3093	i	*****	ppb	-----	-----
V_3102		4.227	ppb	0.8691	20.56
Zn2025		-5.919	ppb	0.06838	1.155
Zn2062		-6.080	ppb	0.02958	0.4865
Sc3613		37,736	Cts/S	57.005	0.15106

**1123-014.5**

Acquire Date: 11/27/2023 1:48:57PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0001770	ppb	0.6912	391,400
Ag3382		-0.2134	ppb	0.2593	121.5
Al1670		12.39	ppb	0.7043	5.684
Al3082		89.73	ppb	3.165	3.527
Al3092	i	*****	ppb	-----	-----
As1890		-0.4028	ppb	0.9081	225.5

**1123-014.5**

Acquire Date: 11/27/2023 1:48:57PM

Sample Type: Unknown

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
As1937		-1.192	ppb	1.309	109.8
Ba4554		1.892	ppb	0.005236	0.2767
Be3130		0.02284	ppb	0.01278	55.93
Ca3179		149.1	ppb	1.112	0.7454
Ca3933		156.6	ppb	1.512	0.9658
Ca3968		154.9	ppb	0.8772	0.5664
Cd2144		-0.9397	ppb	0.04938	5.255
Cd2288		0.1327	ppb	0.05301	39.95
Co2286		0.06171	ppb	0.1352	219.1
Co2388		-4.654	ppb	0.2410	5.179
Cr2677		7.511	ppb	0.5762	7.671
Cu3247		3.430	ppb	0.4316	12.58
Cu3273		3.603	ppb	0.1626	4.514
Fe2382		214.2	ppb	1.486	0.6935
Fe2395		212.8	ppb	1.329	0.6245
Fe2599		214.3	ppb	1.627	0.7595
K_7664		40.06	ppb	0.8635	2.156
K_7698		21.87	ppb	0.2587	1.183
Mg2795		19.93	ppb	0.2021	1.014
Mg2802		19.69	ppb	0.1938	0.9842
Mn2576		2.141	ppb	0.03501	1.635
Na5889		345.7	ppb	1.524	0.4408
Na5895		340.0	ppb	1.237	0.3639
Ni2316		1.686	ppb	0.08652	5.133
Pb1822		7.256	ppb	1.562	21.53
Pb2203		0.9092	ppb	1.108	121.9
Sb2068		-0.8444	ppb	0.6515	77.15
Sb2175		1.025	ppb	0.5280	51.48
Se1960		1.380	ppb	0.8437	61.15
Se2039		-0.1863	ppb	2.947	1,581
Tl1908		0.05508	ppb	0.5812	1,055
Tl2767		-11.10	ppb	4.096	36.91
V_2924		-0.1386	ppb	0.5796	418.2
V_3093	i	*****	ppb	-----	-----
V_3102		4.672	ppb	0.4505	9.642
Zn2025		19.64	ppb	0.1372	0.6988
Zn2062		19.46	ppb	0.2589	1.330
Sc3613		38,348	Cts/S	114.08	0.29749

**ICV**

Acquire Date: 11/27/2023 1:53:02PM

Sample Type: QC

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		988.4	ppb	9.567	0.9680
Ag3382		911.1	ppb	0.3156	0.03464
Al1670		1,016	ppb	5.020	0.4944
Al3082	F	1,754	ppb	17.33	0.9881
Al3092	iF	*****	ppb	-----	-----
As1890		998.5	ppb	7.660	0.7671
As1937		1,002	ppb	4.707	0.4696

**ICV**

Acquire Date: 11/27/2023 1:53:02PM

Sample Type: QC

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ba4554		1,000	ppb	6.780	0.6779
Be3130		1,007	ppb	2.040	0.2026
Ca3179		1,032	ppb	5.422	0.5254
Ca3933		1,076	ppb	11.84	1.101
Ca3968		1,073	ppb	8.049	0.7500
Cd2144		996.0	ppb	3.313	0.3326
Cd2288		999.2	ppb	3.618	0.3621
Co2286		997.1	ppb	3.166	0.3175
Co2388		995.8	ppb	3.416	0.3430
Cr2677		989.4	ppb	3.956	0.3999
Cu3247		992.5	ppb	3.445	0.3471
Cu3273		1,018	ppb	3.997	0.3928
Fe2382		1,047	ppb	1.697	0.1621
Fe2395		1,046	ppb	9.028	0.8630
Fe2599		1,045	ppb	1.182	0.1131
K_7664		1,012	ppb	5.262	0.5199
K_7698		1,005	ppb	5.857	0.5828
Mg2795		1,011	ppb	3.874	0.3831
Mg2802		1,016	ppb	4.631	0.4559
Mn2576		991.2	ppb	4.834	0.4877
Na5889		1,013	ppb	5.167	0.5102
Na5895		1,001	ppb	4.546	0.4542
Ni2316		993.4	ppb	8.444	0.8501
Pb1822		993.4	ppb	6.012	0.6052
Pb2203		994.0	ppb	5.953	0.5989
Sb2068		993.7	ppb	5.806	0.5843
Sb2175		994.8	ppb	6.724	0.6759
Se1960		1,016	ppb	7.577	0.7454
Se2039		1,005	ppb	7.215	0.7176
Tl1908		992.8	ppb	7.078	0.7129
Tl2767		1,031	ppb	10.87	1.055
V_2924		997.2	ppb	0.5065	0.05079
V_3093	i	*****	ppb	-----	-----
V_3102		982.1	ppb	8.054	0.8201
Zn2025		996.5	ppb	3.161	0.3172
Zn2062		1,006	ppb	3.758	0.3736
Sc3613		37,565	Cts/S	81.269	0.21634

**ICB**

Acquire Date: 11/27/2023 1:57:18PM

Sample Type: QC

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.2796	ppb	0.3218	115.1
Ag3382		0.1172	ppb	0.9534	813.6
Al1670		-0.4454	ppb	0.1384	31.07
Al3082	F	66.50	ppb	9.511	14.30
Al3092	i	*****	ppb	-----	-----
As1890		-0.2877	ppb	0.9169	318.7
As1937		-0.03535	ppb	1.317	3,725
Ba4554		0.03352	ppb	0.04097	122.2

## ICB

Acquire Date: 11/27/2023 1:57:18PM

Sample Type: QC

Method Name: 1123-014 112723 B

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Be3130		0.05665	ppb	0.001942	3.428
Ca3179		-15.02	ppb	0.2147	1.429
Ca3933		-15.91	ppb	0.05566	0.3499
Ca3968		-15.82	ppb	0.05013	0.3169
Cd2144	F	-1.002	ppb	0.02641	2.636
Cd2288		-0.04515	ppb	0.04679	103.6
Co2286		-0.2332	ppb	0.06338	27.17
Co2388		0.1422	ppb	0.2435	171.3
Cr2677		0.07105	ppb	0.5481	771.5
Cu3247		0.1561	ppb	0.1341	85.92
Cu3273		0.2585	ppb	0.2677	103.6
Fe2382		-0.5346	ppb	0.3237	60.55
Fe2395		-0.2467	ppb	0.6127	248.4
Fe2599		-0.2261	ppb	0.1363	60.27
K_7664		-1.018	ppb	0.4630	45.46
K_7698		0.1620	ppb	1.226	756.4
Mg2795		-0.2203	ppb	0.01191	5.408
Mg2802		-0.2237	ppb	0.006804	3.041
Mn2576		-0.03330	ppb	0.01327	39.83
Na5889		-1.459	ppb	0.4885	33.47
Na5895		-3.426	ppb	0.4718	13.77
Ni2316		0.3977	ppb	0.2787	70.07
Pb1822		-0.4940	ppb	2.001	405.1
Pb2203		0.4249	ppb	1.220	287.2
Sb2068		0.02052	ppb	0.2600	1,267
Sb2175		1.265	ppb	1.545	122.1
Se1960		0.4508	ppb	2.564	568.8
Se2039		0.1277	ppb	1.876	1,469
Tl1908		0.004773	ppb	1.249	26,170
Tl2767		-7.523	ppb	7.623	101.3
V_2924		-0.3265	ppb	0.6595	202.0
V_3093	i	*****	ppb	----	----
V_3102		1.777	ppb	0.1815	10.21
Zn2025		-5.939	ppb	0.06280	1.057
Zn2062		-6.124	ppb	0.09602	1.568
Sc3613		37,520	Cts/S	222.59	0.59327

# Certificate of Analysis

Date of Release: 10/7/2022

Name: Hydrochloric Acid  
OmniTrace®, 34–37 %

Item No: HX0607 all size codes

Lot / Batch No: 62225

Country of Origin: Canada

Characteristic	Requirement		Results	Units
	Min.	Max.		
Aluminum (Al)		1	<0.5	ppb
Antimony (Sb)		0.5	<0.1	ppb
Arsenic (As)		0.5	<0.1	ppb
Assay	34	37	35	%
Barium (Ba)		0.1	<0.1	ppb
Beryllium (Be)		0.1	<0.1	ppb
Bismuth (Bi)		0.1	<0.1	ppb
Boron (B)		1	<0.5	ppb
Bromide (Br)		10	<10	ppm
Cadmium (Cd)		0.1	<0.1	ppb
Calcium (Ca)		1	<0.5	ppb
Cerium (Ce)		0.1	<0.1	ppb
Cesium (Cs)		0.1	<0.1	ppb
Chromium (Cr)		0.5	<0.1	ppb
Cobalt (Co)		0.1	<0.1	ppb
Color (APHA)		10	<7	
Copper (Cu)		0.5	<0.2	ppb
Density at 25 °C	1.17	1.18	1.18	g/ml
Dysprosium (Dy)		0.1	<0.1	ppb
Erbium (Er)		0.1	<0.1	ppb
Europium (Eu)		0.1	<0.1	ppb
Free chlorine (as Cl)		0.5	<0.5	ppm
Gadolinium (Gd)		0.1	<0.1	ppb
Gallium (Ga)		0.1	<0.1	ppb
Gold (Au)		0.5	<0.1	ppb
Hafnium (Hf)		0.1	<0.1	ppb
Holmium (Ho)		0.1	<0.1	ppb
Indium (In)		0.1	<0.1	ppb
Iron (Fe)		1	<0.5	ppb
Lanthanum (La)		0.1	<0.1	ppb
Lead (Pb)		0.1	<0.1	ppb
Lithium (Li)		0.1	<0.1	ppb

Lutetium (Lu)		0.1	<0.1	ppb
Magnesium (Mg)		0.5	<0.5	ppb
Manganese (Mn)		0.1	<0.1	ppb
Mercury (Hg)		0.1	<0.02	ppb
Molybdenum (Mo)		0.1	<0.1	ppb
Neodymium (Nd)		0.1	<0.1	ppb
Nickel (Ni)		0.5	<0.2	ppb
Niobium (Nb)		0.1	<0.1	ppb
Potassium (K)		1	<0.1	ppb
Praseodymium (Pr)		0.1	<0.1	ppb
Rhenium (Re)		0.1	<0.1	ppb
Rhodium (Rh)		0.1	<0.1	ppb
Rubidium (Rb)		0.1	<0.1	ppb
Ruthenium (Ru)		0.1	<0.1	ppb
Samarium (Sm)		0.1	<0.1	ppb
Scandium (Sc)		0.1	<0.1	ppb
Selenium (Se)		1	<0.2	ppb
Silver (Ag)		1	<0.1	ppb
Sodium (Na)		1	<0.5	ppb
Strontium (Sr)		0.1	<0.1	ppb
Tellurium (Te)		0.1	<0.1	ppb
Terbium (Tb)		0.1	<0.1	ppb
Thallium (Tl)		0.1	<0.1	ppb
Thorium (Th)		0.1	<0.1	ppb
Thulium (Tm)		0.1	<0.1	ppb
Tin (Sn)		0.5	<0.1	ppb
Titanium (Ti)		0.5	<0.1	ppb
Total phosphorus (P)		0.01	<0.01	ppm
Total sulfur (as S)		0.3	<0.3	ppm
Tungsten (W)		0.1	<0.1	ppb
Uranium (U)		0.1	<0.1	ppb
Vanadium (V)		0.5	<0.1	ppb
Ytterbium (Yb)		0.1	<0.1	ppb
Yttrium (Y)		0.1	<0.1	ppb
Zinc (Zn)		1	<0.5	ppb
Zirconium (Zr)		0.1	<0.1	ppb

Michael Hutchinson,

-----  
Quality Control Manager

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EMD Millipore is a division of Merck KGaA, Darmstadt, Germany  
EMD Millipore Corporation  
400 Summit Drive,  
Burlington, MA 01803  
U.S.A

# Certificate Of Analysis



Date of Release: 03/17/2023

Name: Nitric Acid  
OmniTrace®, 67 - 70%

Item No: NX0407 all size codes.

Lot / Batch No: 63076

Country of Origin: Canada

Reassay date: 17 Mar 2025

Characteristic	Requirement		Results	Units
	Min.	Max.		
Aluminum (Al)		1	< 0.5	ppb
Antimony (Sb)		0.5	< 0.1	ppb
Arsenic (As)		0.5	< 0.5	ppb
Assay (HNO <sub>3</sub> , w/w)	67	70	69	%
Barium (Ba)		0.1	< 0.1	ppb
Beryllium (Be)		0.1	< 0.1	ppb
Bismuth (Bi)		0.1	< 0.1	ppb
Boron (B)		1	< 0.5	ppb
Cadmium (Cd)		0.5	< 0.1	ppb
Calcium (Ca)		1	< 0.5	ppb
Cerium (Ce)		0.1	< 0.1	ppb
Cesium (Cs)		0.1	< 0.1	ppb
Chromium (Cr)		1	< 0.5	ppb
Chloride (Cl)		0.2	< 0.2	ppm
Cobalt (Co)		0.5	< 0.1	ppb
Color		7	< 7	APHA
Copper (Cu)		0.5	< 0.2	ppb
Density at 25 <sup>o</sup> C	1.41	1.42	1.42	g/mL
Dysprosium (Dy)		0.1	< 0.1	ppb
Erbium (Er)		0.1	< 0.1	ppb
Europium (Eu)		0.1	< 0.1	ppb
Gadolinium (Gd)		0.1	< 0.1	ppb
Gallium (Ga)		0.1	< 0.1	ppb
Germanium (Ge)		0.1	< 0.1	ppb
Gold (Au)		0.1	< 0.1	ppb
Hafnium (Hf)		0.1	< 0.1	ppb
Holmium (Ho)		0.1	< 0.1	ppb
Indium (In)		0.1	< 0.1	ppb
Iron (Fe)		1	< 0.5	ppb
Lanthanum (La)		0.1	< 0.1	ppb
Lead (Pb)		0.1	< 0.1	ppb
Lithium (Li)		0.1	< 0.1	ppb

Lutetium (Lu)		0.1	< 0.1	ppb
Magnesium (Mg)		1	< 0.2	ppb
Manganese (Mn)		0.1	< 0.1	ppb
Mercury (Hg)		0.1	< 0.02	ppb
Molybdenum (Mo)		0.1	< 0.1	ppb
Neodymium (Nd)		0.1	< 0.1	ppb
Nickel (Ni)		0.5	< 0.5	ppb
Niobium (Nb)		0.1	< 0.1	ppb
Palladium (Pd)		0.5	< 0.1	ppb
Platinum (Pt)		0.5	< 0.1	ppb
Potassium (K)		1	< 0.1	ppb
Praseodymium (Pr)		0.1	< 0.1	ppb
Rhenium (Re)		0.1	< 0.1	ppb
Rhodium (Rh)		0.5	< 0.1	ppb
Rubidium (Rb)		0.1	< 0.1	ppb
Ruthenium (Ru)		0.5	< 0.1	ppb
Samarium (Sm)		0.1	< 0.1	ppb
Scandium (Sc)		0.1	< 0.1	ppb
Selenium (Se)		1	< 0.2	ppb
Silver (Ag)		0.1	< 0.1	ppb
Sodium (Na)		1	< 0.5	ppb
Strontium (Sr)		0.1	< 0.1	ppb
Tantalum (Ta)		Information Only	< 0.1	ppb
Tellurium (Te)		0.1	< 0.1	ppb
Terbium (Tb)		0.1	< 0.1	ppb
Thallium (Tl)		0.1	< 0.1	ppb
Thorium (Th)		0.1	< 0.1	ppb
Thulium (Tm)		0.1	< 0.1	ppb
Tin (Sn)		0.5	< 0.1	ppb
Titanium (Ti)		0.5	< 0.1	ppb
Total phosphorus (P)		0.01	< 0.01	ppm
Total sulfur (S)		0.3	< 0.3	ppm
Tungsten (W)		0.1	< 0.1	ppb
Uranium (U)		0.1	< 0.1	ppb
Vanadium (V)		0.5	< 0.1	ppb
Ytterbium (Yb)		0.1	< 0.1	ppb
Yttrium (Y)		0.1	< 0.1	ppb
Zinc (Zn)		0.5	< 0.5	ppb
Zirconium (Zr)		0.1	< 0.1	ppb

Joe Schoellkopf

Quality Control Manager

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EMD Millipore Corporation

400 Summit Drive  
Burlington, MA 01803  
U.S.A.



# Certificate of Analysis

## ISO Guide 34

**Product Number:** ICP-026  
**Lot Number:** CS-6257

**Lot Issue Date:** 28-Dec 2018  
**Expiration Date:** 31-Jan 2026

**Product Name:** Iron ICP Standard

### Description:

This Reference Material (RM) was gravimetrically prepared in accordance with ISO Guide 34 and under Agilent's ISO 9001 registered quality system. The neat materials used for this product have been verified by Agilent's ISO 17025 laboratory and under Agilent's ISO Guide 34 accreditation. The analyte concentrations were verified by Agilent's ISO 17025 accredited laboratory. For each analyte, the true value, with its uncertainty value calculated at the 95% confidence level, is reported below.

Analyte	Starting Material	Lot Number	Purity (%)	Analyte Concentration	Traceability & Method
iron	iron (III) nitrate nonahydrate	RM14491	99.999%	1000 ± 2 µg/mL	NIST SRM 3126a; ICP-OES

**Solvent:** 2% nitric acid in low TOC water (< 50 ppb)

### Non-Certified Values:

**Density:** 1.0123 g/mL @ 20.00 ± 0.05°C

### Trace Metallic Impurities in Solution Standard in µg/mL

*___ Al <0.008 D	*___ Ga <0.005 ND	n___ Nb	n___ S
*___ Sb <0.005 ND	n___ Ge	n___ Os	n___ Ta
*___ As <0.005 ND	n___ Au	*___ Pd <0.005 ND	n___ Te
*___ Ba <0.005 ND	n___ Hf	*___ P <0.005 ND	n___ Tb
*___ Be <0.005 ND	n___ Ho	*___ Pt <0.005 ND	*___ Tl <0.005 ND
*___ Bi <0.005 ND	*___ In <0.005 ND	*___ K <0.005 ND	n___ Th
*___ B <0.005 ND	n___ Ir	n___ Pr	n___ Tm
*___ Cd <0.005 ND	s___ Fe	n___ Re	*___ Sn <0.005 ND
n___ Cs	*___ La <0.005 ND	n___ Rh	*___ Ti <0.005 ND
*___ Ca <0.008 D	*___ Pb <0.005 ND	n___ Rb	n___ W
n___ Ce	*___ Li <0.005 ND	n___ Ru	n___ U
*___ Cr <0.023 D	n___ Lu	n___ Sm	*___ V <0.005 ND
*___ Co <0.008 D	*___ Mg <0.005 ND	n___ Sc	n___ Yb
*___ Cu <0.005 ND	*___ Mn <0.008 D	*___ Se <0.005 ND	n___ Y
n___ Dy	*___ Hg <0.005 ND	*___ Si <0.005 ND	*___ Zn <0.005 ND
*___ Er <0.005 ND	*___ Mo <0.005 ND	*___ Ag <0.005 ND	n___ Zr
*___ Eu <0.005 ND	n___ Nd	*___ Na <0.008 D	
*___ Gd <0.005 ND	*___ Ni <0.005 ND	*___ Sr <0.005 ND	

\* - element checked; i - spectral interference; n - element not checked; D - element detected; ND - element not detected;  
s - standard element



ISO Guide 34 Cert No.  
AR-1936

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registered ISO 9001 Quality Management System



ISO17025 Cert No.  
AT-1937

# Certificate of Analysis

## ISO Guide 34

**Product Number:** ICP-026  
**Lot Number:** CS-6257

**Lot Issue Date:** 28-Dec 2018  
**Expiration Date:** 31-Jan 2026

**Storage:** Store at Room Temperature (15° to 30°C).

### Traceability:

Traceability has been established through an unbroken chain of comparisons, each having stated uncertainties. Comparisons are based on appropriate physical or chemical measurements, including gravimetric or volumetric dilution, where the mass or volume of a solution before and after dilution is measured. The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1, ISO 9001, ISO 17025, and ISO Guide 34. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 819.

### Estimation of Uncertainties:

The true value is reported, with its uncertainty value calculated at the 95% confidence level.

### Homogeneity:

This RM was formulated and unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

### Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods and continuing calibration verification.

### Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening and should be processed without delay for the true value to be valid within the stated uncertainties. Do not pipet from the bottle. Do not return any material removed for pipetting to the bottle. Tightly cap the bottle after removing any material and store according to the instructions noted above.

### Hazards:

Refer to the Safety Data Sheet for information regarding this RM.

### Expiration of Certification:

The certification of this RM is valid, within the measurement uncertainty specified, until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

### Maintenance of Certification:

The real-time, long term stability of the RM may be monitored over the lifetime of the certification. If substantive changes occur that affect the certification before the expiration of this certificate, Agilent Technologies will notify the purchaser.

  
Monica Bourgeois  
QMS Representative



ISO Guide 34 Cert No.  
AR-1936

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registered ISO 9001 Quality Management System



ISO17025 Cert No.  
AT-1937

# Certificate of Analysis

## Potassium Standard

**Product Number:** ICP-319

**Page:** 1 of 3

**Lot Number:** 0006474146

**Issue Date:** 01-Jul-2019

**Expiration Date:** 31-Jul-2025

This Certified Reference Material (CRM) is intended for use as a calibration standard for the quantitative determination of the analyte listed. The CRM was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system. The certified concentration value reported for the analyte is based upon the gravimetric and volumetric measurements made during the preparation of the CRM. The analyte concentrations were verified by Agilent's ISO 17025 accredited laboratory using an appropriate analytical technique.

**Certified Value:** 1002 ± 17 µg/mL Potassium

### Description:

**Matrix:** 2% nitric acid in water

**Starting Material(s):** potassium nitrate (CP grade) (as potassium) **Lot No.:** RM14170 **Purity:** 99.999%

**Atomic Weight K:** 39.0983

This RM was manufactured using purified acids and 18 megohm double deionized water, and is packaged in sealed, low density polyethylene (LDPE) bottles.

### Analytical Confirmation:

The analyte concentration was verified by Agilent's ISO 17025 accredited laboratory using inductively coupled plasma spectroscopy (ICP / ICP-MS) versus NIST SRM.

### Traceability:

Traceability has been established through an unbroken chain of comparisons, each having stated uncertainties. For chemical measurements, including gravimetric or volumetric dilution, the mass or volume of a solution before and after dilution is measured. The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 819.



## Potassium Standard

**Product Number:** ICP-319

**Page:** 2 of 3

**Lot Number:** 0006474146

**Lot Issue Date:** 01-Jul-2019

**Expiration Date:** 31-Jul-2025

### Estimation of Uncertainties:

Uncertainties in certified values are estimated in accordance with ISO 17034 and ISO Guide 35, and include assessments of the uncertainty contributions resulting from the gravimetric characterization of the reference material ( $u_{char}$ ), the packaging of the reference material into individual units ( $u_{bb}$ ), the transportation of the reference material to the end user ( $u_{sts}$ ), and the long term storage of the reference material ( $u_{lts}$ ). The uncertainty ( $U$ ) is reported as an expanded uncertainty calculated as:

$$U = k \sqrt{u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2}$$

using a coverage factor of  $k=2$ , which gives a level of confidence of approximately 95%.

### Non-Certified Values:

**Density:** 1.010 g/mL @ 20.0 ± 0.5°C

### Trace Metallic Impurities in Solution Standard in µg/mL:

* Al	<0.005 ND	* Ga	<0.005 ND	n Nb		n S	
* Sb	<0.005 ND	n Ge		n Os		n Ta	
* As	<0.005 ND	n Au		* Pd	<0.005 ND	n Te	
* Ba	<0.005 ND	n Hf		* P	<0.005 ND	n Tb	
* Be	<0.005 ND	n Ho		* Pt	<0.005 ND	* Tl	<0.005 ND
* Bi	<0.005 ND	* In	<0.005 ND	s K		n Th	
* B	<0.005 ND	n Ir		n Pr		n Tm	
* Cd	<0.005 ND	* Fe	<0.005 ND	n Re		* Sn	<0.005 ND
n Cs		* La	<0.005 ND	n Rh		* Ti	<0.005 ND
* Ca	<0.005 D	* Pb	<0.005 ND	n Rb		n W	
n Ce		* Li	<0.005 ND	n Ru		n U	
* Cr	<0.005 ND	n Lu		n Sm		* V	<0.005 ND
* Co	<0.005 ND	* Mg	<0.005 D	n Sc		n Yb	
* Cu	<0.005 ND	* Mn	<0.005 ND	* Se	<0.005 ND	n Y	
n Dy		* Hg	<0.005 ND	* Si	<0.005 ND	* Zn	<0.005 ND
* Er	<0.005 ND	* Mo	<0.005 ND	* Ag	<0.005 ND	n Zr	
* Eu	<0.005 ND	n Nd		* Na	<0.007 D		
* Gd	<0.005 ND	* Ni	<0.005 ND	* Sr	<0.005 ND		

\* - element checked for  
D - detected

n - not checked for  
ND - not detected

s - standard element  
i - spectral interference

# Certificate of Analysis

## Potassium Standard

**Product Number:** ICP-319

**Page:** 3 of 3

**Lot Number:** 0006474146

**Lot Issue Date:** 01-Jul-2019

**Expiration Date:** 31-Jul-2025

### Storage:

Store at Room Temperature (15° to 30°C).

Store the RM according to directions noted above. Keep container tightly closed in a dry and well-ventilated place. Extended storage at temperatures below 4°C or above 35°C is not recommended.

### Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the bottle and should be processed without delay for the certified values to be valid within the stated uncertainties. Do not pipet from the bottle. Do not return any material removed for pipeting to the bottle. Tightly cap the bottle after removing any of the material, and store according to the instructions noted above. Since this is a solution, there is no minimum subsample size required to be drawn.

### Expiration of Certification:

The certification of this CRM is valid, within the measurement uncertainty specified, until the expiration date specified above, provided the CRM is handled and stored in accordance with instructions given in this certificate. This certification is nullified if the CRM is damaged, contaminated, or otherwise modified.

### Maintenance of Certification:

The long term stability of this RM will be monitored over the lifetime of the certification. If substantive changes occur that affect the certification before the expiration of this certificate, Agilent Technologies will notify the purchaser.

### Product Hazards:

Safety Data Sheets are available on [www.ultrasci.com](http://www.ultrasci.com) or by contacting our Technical Service department.

  
Monica Bourgeois  
QMS Representative



ISO 17034 Cert No.  
AR-1936

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ISO17025 Cert No.  
AT-1937

# Certificate of Analysis

F0699

## Calcium Standard

**Product Number:** ICP-320

**Page:** 3 of 3

**Lot Number:** 0006550039

**Lot Issue Date:** 19-Aug-2020

**Expiration Date:** 30-Sep-2025

### Storage:

Store at Room Temperature (15° to 30°C).

Store the CRM according to directions noted above. Keep container tightly closed in a dry and well-ventilated place. Extended storage at temperatures below 4°C or above 35°C is not recommended.

### Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the bottle and should be processed without delay for the certified values to be valid within the stated uncertainties. Do not pipet from the bottle. Do not return any material removed for pipeting to the bottle. Tightly cap the bottle after removing any of the material, and store according to the instructions noted above. Since this is a solution, there is no minimum subsample size required to be drawn.

### Expiration of Certification:

The certification of this CRM is valid, within the measurement uncertainty specified, until the expiration date specified above, provided the CRM is handled and stored in accordance with instructions given in this certificate. This certification is nullified if the CRM is damaged, contaminated, or otherwise modified.

### Maintenance of Certification:

The long term stability of this CRM will be monitored over the lifetime of the certification. If substantive changes occur that affect the certification before the expiration of this certificate, Agilent Technologies will notify the purchaser.

### Product Hazards:

Safety Data Sheets are available on [www.agilent.com](http://www.agilent.com) or by contacting our Technical Service department.

  
Monica Bourgeois  
QMS Representative



ISO 17034 Cert No.  
AR-1936

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CSD-QA-011.1



ISO 17025 Cert No.  
AT-1937



# Certificate of Analysis

## Calcium Standard

Product Number: ICP-320

Page: 2 of 3

Lot Number: 0006550039

Lot Issue Date: 19-Aug-2020

Expiration Date: 30-Sep-2025

### Estimation of Uncertainties:

Uncertainties in certified values are estimated in accordance with ISO 17034 and ISO Guide 35, and include assessments of the uncertainty contributions resulting from the gravimetric characterization of the reference material ( $u_{char}$ ), the packaging of the reference material into individual units ( $u_{lib}$ ), the transportation of the reference material to the end user ( $u_{sts}$ ), and the long term storage of the reference material ( $u_{lts}$ ). The uncertainty ( $U$ ) is reported as an expanded uncertainty calculated as:

$$U = k \sqrt{u_{char}^2 + u_{lib}^2 + u_{sts}^2 + u_{lts}^2}$$

using a coverage factor of  $k=2$ , which gives a level of confidence of approximately 95%.

### Non-Certified Values:

Density: 1.010 g/mL @ 20.0 ± 0.5°C

### Trace Metallic Impurities in Solution Standard in µg/mL:

*	Al	<0.005	ND	*	Ga	<0.005	ND	n	Nb		n	S			
*	Sb	<0.005	ND	n	Ge			n	Os		n	Ta			
*	As	<0.005	ND	n	Au			*	Pd	<0.005	ND	n	Te		
*	Ba	<0.005	ND	n	Hf			*	P	<0.005	ND	n	Tb		
*	Be	<0.005	ND	n	Ho			*	Pt	<0.005	ND	*	Tl	<0.005	ND
*	Bi	<0.005	ND	*	In	<0.005	ND	*	K	<0.005	ND	n	Th		
*	B	<0.005	ND	n	Ir			n	Pr			n	Tm		
*	Cd	<0.005	ND	*	Fe	<0.005	ND	n	Re			*	Sn	<0.005	ND
n	Cs			*	La	<0.005	ND	n	Rh			*	Ti	<0.005	ND
s	Ca			*	Pb	<0.005	ND	n	Rb			n	W		
n	Ce			*	Li	<0.005	ND	n	Ru			n	U		
*	Cr	<0.005	ND	n	Lu			n	Sm			*	V	<0.005	ND
*	Co	<0.005	ND	*	Mg	<0.005	D	n	Sc			n	Yb		
*	Cu	<0.005	ND	*	Mn	<0.005	ND	*	Se	<0.005	ND	n	Y		
n	Dy			*	Hg	<0.005	ND	*	Si	<0.005	ND	*	Zn	<0.005	ND
*	Er	<0.005	ND	*	Mo	<0.005	ND	*	Ag	<0.005	ND	n	Zr		
*	Eu	<0.005	ND	n	Nd			*	Na	<0.005	ND				
*	Gd	<0.005	ND	*	Ni	<0.005	ND	*	Sr	<0.005	D				

\* - element checked for  
D - detected

n - not checked for  
ND - not detected

s - standard element  
i - spectral interference



ISO 17034 Cert No.  
AR-1936

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CSD-QA-011.1



ISO 17025 Cert No.  
AT-1937

# Certificate of Analysis

## Calcium Standard

**Product Number:** ICP-320**Page:** 1 of 3**Lot Number:** 0006550039**Lot Issue Date:** 19-Aug-2020**Expiration Date:** 30-Sep-2025

This Certified Reference Material (CRM) is intended for use as a calibration standard for the quantitative determination of the analyte listed. The CRM was developed, manufactured, and verified in accordance with Agilent's ISO 9001 registered quality system, ISO 17034 and ISO Guide 35. The certified concentration value reported for the analyte is based upon the gravimetric and volumetric measurements made during the preparation of the CRM. The analyte concentrations were verified by Agilent's ISO 17025 accredited laboratory using an appropriate analytical technique. This certificate was designed in accordance to ISO 17034 and ISO Guide 31.

**Certified Value:**  $1001 \pm 13 \mu\text{g/mL}$  Calcium**Description:****Matrix:** 2% nitric acid in water**Starting Material(s):** calcium carbonate (ICP grade) (as calcium) **Lot No.:** rm15103 **Purity:** 99.999 %**Atomic Weight Ca:** 40.078

This CRM was manufactured using purified acids and 18 megohm double deionized water, and is packaged in sealed, low density polyethylene (LDPE) bottles.

**Analytical Confirmation:**

The analyte concentration was verified by Agilent's ISO 17025 accredited laboratory using inductively coupled plasma spectroscopy (ICP / ICP-MS) versus NIST SRM 3109a.

**Traceability:**

Traceability has been established through an unbroken chain of comparisons, each having stated uncertainties. Comparisons are based on appropriate physical or chemical measurements, including gravimetric or volumetric dilution, where the mass or volume of a solution before and after dilution is measured. The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 819.

ISO 17034 Cert No.  
AR-1936Produced in accordance with TUV USA Inc 56 100 18560026  
registered ISO 9001 Quality Management System[www.agilent.com/quality/](http://www.agilent.com/quality/)  
CSD-QA-011.1ISO 17025 Cert No.  
AT-1937



# Certificate of Analysis

## ISO 17034

**Product Number:** ICP-011  
**Lot Number:** 0006476575

**Lot Issue Date:** 10-Jul 2019  
**Expiration Date:** 31-Jul 2026

**Product Name:** Sodium ICP Standard

### Description:

This Reference Material (RM) was gravimetrically prepared in accordance with ISO 17034 and under Agilent's ISO 9001 registered quality system. The neat materials used for this product have been verified by Agilent's ISO 17025 laboratory and under Agilent's ISO 17034 accreditation. The analyte concentrations were verified by Agilent's ISO 17025 accredited laboratory. For each analyte, the true value, with its uncertainty value calculated at the 95% confidence level, is reported below.

Analyte	Starting Material	Lot Number	Purity (%)	Analyte Concentration	Traceability & Method
sodium	sodium nitrate	RM10629	99.999	1001 ± 2 µg/mL	NIST SRM 3152a; ICP-OES

**Solvent:** 2% nitric acid in low TOC water (< 50 ppb)

### Non-Certified Values:

**Density:** 1.0112 g/mL @ 20.00 ± 0.05°C

### Trace Metallic Impurities in Solution Standard in µg/mL

* ___ Al	<0.005 ND	* ___ Ga	<0.005 ND	n ___ Nb	n ___ S
* ___ Sb	<0.005 ND	n ___ Ge		n ___ Os	n ___ Ta
* ___ As	<0.005 ND	n ___ Au		* ___ Pd	<0.005 ND
* ___ Ba	<0.005 ND	n ___ Hf		* ___ P	<0.005 ND
* ___ Be	<0.005 ND	n ___ Ho		* ___ Pt	<0.005 ND
* ___ Bi	<0.005 ND	* ___ In	<0.005 ND	* ___ K	<0.005 ND
* ___ B	<0.005 ND	n ___ Ir		n ___ Pr	n ___ Tm
* ___ Cd	<0.005 ND	* ___ Fe	<0.005 D	n ___ Re	* ___ Sn
n ___ Cs		* ___ La	<0.005 ND	n ___ Rh	* ___ Ti
* ___ Ca	<0.030 D	* ___ Pb	<0.005 ND	n ___ Rb	n ___ W
n ___ Ce		* ___ Li	<0.005 ND	n ___ Ru	n ___ U
* ___ Cr	<0.005 ND	n ___ Lu		n ___ Sm	* ___ V
* ___ Co	<0.005 ND	* ___ Mg	<0.005 D	n ___ Sc	n ___ Yb
* ___ Cu	<0.005 ND	* ___ Mn	<0.005 ND	* ___ Se	<0.005 ND
n ___ Dy		* ___ Hg	<0.005 ND	* ___ Si	<0.005 ND
* ___ Er	<0.005 ND	* ___ Mo	<0.005 ND	* ___ Ag	<0.005 ND
* ___ Eu	<0.005 ND	n ___ Nd		s ___ Na	
* ___ Gd	<0.005 ND	* ___ Ni	<0.005 ND	* ___ Sr	<0.005 ND

\* - element checked; i - spectral interference; n - element not checked; D - element detected; ND - element not detected;  
s - standard element

# Certificate of Analysis

## ISO 17034

Product Number: ICP-011  
Lot Number: 0006476575

Lot Issue Date: 10-Jul 2019  
Expiration Date: 31-Jul 2026

**Storage:** Store room temp (15 – 30°C)

**Traceability:**

Traceability has been established through an unbroken chain of comparisons, each having stated uncertainties. Comparisons are based on appropriate physical or chemical measurements, including gravimetric or volumetric dilution, where the mass or volume of a solution before and after dilution is measured. The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 819.

**Estimation of Uncertainties:**

The true value is reported, with its uncertainty value calculated at the 95% confidence level.

**Homogeneity:**

This RM was formulated and unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Intended Use:**

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods and continuing calibration verification.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening and should be processed without delay for the true value to be valid within the stated uncertainties. Do not pipet from the bottle. Do not return any material removed for pipetting to the bottle. Tightly cap the bottle after removing any material and store according to the instructions noted above.

**Hazards:**

Refer to the Safety Data Sheet for information regarding this RM.

**Expiration of Certification:**

The certification of this RM is valid, within the measurement uncertainty specified, until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

**Maintenance of Certification:**

The real-time, long term stability of the RM may be monitored over the lifetime of the certification. If substantive changes occur that affect the certification before the expiration of this certificate, Agilent Technologies will notify the purchaser.

  
Monica Bourgeois  
QMS Representative



ISO 17034 Cert No.  
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026  
registered ISO 9001 Quality Management System

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ISO17025 Cert No.  
AT-1937

# Certificate of Analysis

## ISO Guide 34

**Product Number:** ICP-012  
**Lot Number:** CS-4180

**Lot Issue Date:** 20-Aug 2018  
**Expiration Date:** 30-Sep 2025

**Product Name:** Magnesium ICP Standard

### Description:

This Reference Material (RM) was gravimetrically prepared in accordance with ISO Guide 34 and under Agilent's ISO 9001 registered quality system. The neat materials used for this product have been verified by Agilent's ISO 17025 laboratory and under Agilent's ISO Guide 34 accreditation. The analyte concentrations were verified by Agilent's ISO 17025 accredited laboratory. For each analyte, the true value, with its uncertainty value calculated at the 95% confidence level, is reported below.

Analyte	Starting Material	Lot Number	Purity (%)	Analyte Concentration	Traceability & Method
magnesium	magnesium nitrate hexahydrate	RM13723	99.999%	1000 ± 2 µg/mL	NIST SRM 3131a; ICP-OES

**Solvent:** 2% nitric acid in low TOC water (< 50 ppb)

### Non-Certified Values:

**Density:** 1.0132 g/mL @ 20.00 ± 0.05°C

### Trace Metallic Impurities in Solution Standard in µg/mL

* ___ Al <0.005 ND	* ___ Ga <0.005 ND	n ___ Nb	n ___ S
* ___ Sb <0.005 ND	n ___ Ge	n ___ Os	n ___ Ta
* ___ As <0.005 ND	n ___ Au	* ___ Pd <0.005 ND	n ___ Te
* ___ Ba <0.005 ND	n ___ Hf	* ___ P <0.005 ND	n ___ Tb
* ___ Be <0.005 ND	n ___ Ho	* ___ Pt <0.005 ND	* ___ Tl <0.005 ND
* ___ Bi <0.005 ND	* ___ In <0.005 ND	* ___ K <0.005 ND	n ___ Th
* ___ B <0.005 ND	n ___ Ir	n ___ Pr	n ___ Tm
* ___ Cd <0.005 ND	* ___ Fe <0.03 D	n ___ Re	* ___ Sn <0.005 ND
n ___ Cs	* ___ La <0.005 ND	n ___ Rh	* ___ Ti <0.005 ND
* ___ Ca <0.05 D	* ___ Pb <0.005 ND	n ___ Rb	n ___ W
n ___ Ce	* ___ Li <0.005 ND	n ___ Ru	n ___ U
* ___ Cr <0.005 ND	n ___ Lu	n ___ Sm	* ___ V <0.005 ND
* ___ Co <0.005 ND	s ___ Mg	n ___ Sc	n ___ Yb
* ___ Cu <0.005 ND	* ___ Mn <0.005 ND	* ___ Se <0.005 ND	n ___ Y
n ___ Dy	* ___ Hg <0.005 ND	* ___ Si <0.005 ND	* ___ Zn <0.005 ND
* ___ Er <0.005 ND	* ___ Mo <0.005 ND	* ___ Ag <0.005 ND	n ___ Zr
* ___ Eu <0.005 ND	n ___ Nd	* ___ Na	
* ___ Gd <0.005 ND	* ___ Ni <0.005 ND	* ___ Sr <0.005 ND	

\* - element checked; i - spectral interference; n - element not checked; D - element detected; ND - element not detected;  
s - standard element

# Certificate of Analysis

## ISO Guide 34

**Product Number:** ICP-012  
**Lot Number:** CS-4180

**Lot Issue Date:** 20-Aug 2018  
**Expiration Date:** 30-Sep 2025

**Storage:** Store room temp (15 – 30°C)

**Traceability:**

Traceability has been established through an unbroken chain of comparisons, each having stated uncertainties. Comparisons are based on appropriate physical or chemical measurements, including gravimetric or volumetric dilution, where the mass or volume of a solution before and after dilution is measured. The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1, ISO 9001, ISO 17025, and ISO Guide 34. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 819.

**Estimation of Uncertainties:**

The true value is reported, with its uncertainty value calculated at the 95% confidence level.

**Homogeneity:**

This RM was formulated and unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Intended Use:**

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods and continuing calibration verification.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening and should be processed without delay for the true value to be valid within the stated uncertainties. Do not pipet from the bottle. Do not return any material removed for pipetting to the bottle. Tightly cap the bottle after removing any material and store according to the instructions noted above.

**Hazards:**

Refer to the Safety Data Sheet for information regarding this RM.

**Expiration of Certification:**

The certification of this RM is valid, within the measurement uncertainty specified, until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

**Maintenance of Certification:**

The real-time, long term stability of the RM may be monitored over the lifetime of the certification. If substantive changes occur that affect the certification before the expiration of this certificate, Agilent Technology will notify the purchaser.

  
Monica Bourgeois  
QMS Representative



ISO Guide 34 Cert No.  
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026  
registered ISO 9001 Quality Management System

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ISO17025 Cert No.  
AT-1937

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Christiansburg, VA 24073 USA  
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P: 800-669-6799/540-585-3030  
F: 540-585-3012  
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution  
Catalog Number: CLPP-ICS-A  
Lot Number: S2-MEB711007  
Matrix: 2% (v/v) HNO<sub>3</sub>  
Value / Analyte(s):  
5 000 µg/mL ea: Aluminum, Calcium, Magnesium,  
2 000 µg/mL ea: Iron

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	5 003 ± 17 µg/mL	Calcium, Ca	5 003 ± 19 µg/mL
Iron, Fe	2 001 ± 8 µg/mL	Magnesium, Mg	5 003 ± 20 µg/mL

Density: 1.083 g/mL (measured at 20 ± 4 °C)

### Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.



#### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char}$  =  $[\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

#### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M Ag < 0.000610	M Eu < 0.000110	M Na 0.510000	M Se 0.004200	M Zn 0.032000
s Al <	s Fe <	M Nb < 0.000110	O Si 0.026000	M Zr 0.003500
M As 0.005600	M Ga 0.130000	M Nd < 0.000110	M Sm < 0.000210	
M Au < 0.002100	M Gd < 0.000610	M Ni 0.024000	M Sn < 0.000510	
O B < 0.017000	M Ge < 0.004300	M Os < 0.000310	O Sr 0.031000	
O Ba 0.020000	M Hf < 0.000410	O P < 0.051000	M Ta < 0.000110	
O Be < 0.000220	M Hg < 0.000310	M Pb < 0.002900	M Tb < 0.000110	
M Bi < 0.000510	M Ho < 0.000210	M Pd < 0.000210	M Te < 0.000310	
s Ca <	M In < 0.000610	M Pr < 0.000110	M Th < 0.000110	
M Cd < 0.000310	M Ir < 0.000110	M Pt < 0.000110	M Ti < 0.002800	
M Ce < 0.000810	O K 0.032000	M Rb < 0.000410	M Tl < 0.000110	
O Co 0.005500	M La < 0.001100	M Re < 0.000110	M Tm < 0.000110	
M Cr 0.052000	O Li 0.018000	M Rh < 0.000110	M U 0.000810	
M Cs 0.003800	M Lu < 0.000110	M Ru < 0.000710	M V 0.002700	
O Cu < 0.006200	s Mg <	O S 0.120000	M W < 0.000310	
M Dy < 0.002100	O Mn 0.003000	M Sb < 0.001700	M Y < 0.000110	
M Er < 0.000110	M Mo 0.001900	M Sc < 0.001100	M Yb < 0.000110	

M - Checked by ICP-MS      O - Checked by ICP-OES      i - Spectral Interference

n - Not Checked For      s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## **7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL**

### **7.1 Storage and Handling Recommendations**

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.
- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

## **8.0 HAZARDOUS INFORMATION**

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## **9.0 HOMOGENEITY**

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## **10.0 QUALITY STANDARD DOCUMENTATION**

### **10.1 ISO 9001 Quality Management System Registration**

- QSR Certificate Number QSR-1034

### **10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"**

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### **10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"**

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## **11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

### **11.1 Certification Issue Date**

October 25, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### **11.2 Lot Expiration Date**

- **October 25, 2026**

- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

### 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

#### Certificate Approved By:

Michael Booth  
Director, Technical



#### Certifying Officer:

Paul Gaines  
Chairman / Senior Technical Director





# Certificate of Analysis

F0871

Certified Reference Material

**Product Description:** EPA Method 200.8 Calibration Standard 1

**Product Number:** ICP-200.8-1-250  
**Lot Number:** 2233902-250  
**Matrix:** 2% HNO<sub>3</sub> / Tr HF  
**Purity:** 99.98%-99.9995%  
**Density:** 1.010 g/mL ± 0.002 g/mL @ 20.9°C ± 0.3°C

**Certified Values:**

Element	(µg/mL)	SRM ID	Element	(µg/mL)	SRM ID
Ag	10.0 ± 0.1	3151	Mo	10.0 ± 0.1	3134
Al	10.0 ± 0.1	3101a	Ni	10.0 ± 0.1	3136
As	10.0 ± 0.1	3103a	Pb	10.0 ± 0.1	3128
Ba	10.0 ± 0.1	3104a	Sb	10.0 ± 0.1	3102a
Be	10.0 ± 0.1	3105a	Se	10.0 ± 0.1	3149
Cd	10.0 ± 0.1	3108	Th	10.0 ± 0.1	3159
Co	10.0 ± 0.1	3113	Tl	10.0 ± 0.1	3158
Cr	10.0 ± 0.1	3112a	U	10.0 ± 0.1	3164
Cu	10.0 ± 0.1	3114	V	10.0 ± 0.1	3165
Mn	10.0 ± 0.2	3132	Zn	10.0 ± 0.1	3168a

Certified values are based on gravimetric and volumetric preparation, and verified against NIST SRM 3100 series when available via inductively coupled plasma optical emission spectrometry (ICP-OES) and/or inductively coupled plasma mass spectrometry (ICP-MS) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

\* Refer to Traceability Information, Section 4

**Packaging and Storage Conditions:**

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

**Expiration Information:**

The expiry date is guaranteed to be valid for one year from the shipping date provided and is guaranteed through the month of expiration. For this reason, standards from the same lot may have different expiration dates.

**Shipped Date:** August 2023  
**Expiration Date:** August 31, 2024  
**Certificate Issue Date:** December 7, 2022

  
Julio Soto, Quality Manager

**Preparation Information:**

This Certified Reference Material (CRM) is generally prepared from single element standard solutions that are ISO 17034 certified reference materials and manufactured under appropriate laboratory conditions using the methods developed at NIST for SRM Spectrometric Standard Solutions. Sub-boiling distilled high-purity acid has been used to place the materials in solution and stabilize the standard. The matrix is as noted above in 18 megaohm deionized water. Stability of this product is based upon rigorous short-term and long-term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product. If, during the period of validity, a recall is instituted due to substantial changes in the stability of this product, the purchaser will be notified.

**Homogeneity:**

This product is determined to be homogeneous following in-house procedures developed in accordance with the requirements of ISO 17034 and ISO Guide 35.

**Intended Use:**

This product is intended for use as a calibration standard, quality control standard, and/or for the validation of analytical methods. The standard is confirmed homogeneous; therefore, the minimum sample size should be consistent with the end user's measurement capabilities.

**Traceability Information:**

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

1. **Standard Weight and Analytical Balance**

The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in 'NIST Weights and Measures Measurement Assurance Program' with a certificate of measurement traceability to NIST primary standards. The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

2. **Volumetric Device**

The calibrations of volumetric vessels are verified using the ASTM method E542.

3. **Thermometer**

The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

4. **Calibration Standards**

The Calibration Standard is traceable to SRM 3100 Series Spectrometric Standard Solutions. If an SRM is not available, a second source standard or independent lot is used.

**Refer to Safety Datasheet (SDS) for hazardous information.**

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High-Purity Standards.

# Certificate of Analysis F0864

## Certified Reference Material

**Product Description:** Quality Control Standard 26 Revised

Product Number: **QCS-26-R-500**  
Lot Number: **2222892-500**  
Matrix: 5% HNO<sub>3</sub> / Tr HF  
Purity: 99.98%-99.9999%  
Density: 1.040 g/mL  $\pm$  0.002 g/mL @ 21.5°C  $\pm$  0.3°C

**Certified Values:**

Element	( $\mu$ g/mL)	SRM ID	Element	( $\mu$ g/mL)	SRM ID
Ag	100.0 $\pm$ 0.6	3151	Mg	100.0 $\pm$ 0.6	3131a
Al	100.0 $\pm$ 0.6	3101a	Mn	100.0 $\pm$ 1.5	3132
As	100 $\pm$ 1	3103a	Mo	100 $\pm$ 1	3134
B	100 $\pm$ 1	3107	Na	100.0 $\pm$ 0.6	3152a
Ba	100.0 $\pm$ 0.6	3104a	Ni	100.0 $\pm$ 0.6	3136
Be	100 $\pm$ 1	3105a	Pb	100 $\pm$ 1	3128
Ca	100.0 $\pm$ 0.6	3109a	Sb	100 $\pm$ 1	3102a
Cd	100.0 $\pm$ 0.6	3108	Se	100 $\pm$ 1	3149
Co	100.0 $\pm$ 0.6	3113	Si	100 $\pm$ 1	3150
Cr	100.0 $\pm$ 0.6	3112a	Ti	100 $\pm$ 1	3162a
Cu	100.0 $\pm$ 0.6	3114	Tl	100 $\pm$ 1	3158
Fe	100.0 $\pm$ 0.6	3126a	V	100 $\pm$ 1	3165
K	100 $\pm$ 1	3141a	Zn	100.0 $\pm$ 0.6	3168a

Certified values are based on gravimetric and volumetric preparation, and verified against NIST SRM 3100 series when available via inductively coupled plasma optical emission spectrometry (ICP-OES) and/or inductively coupled plasma mass spectrometry (ICP-MS) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor  $k$  is about 2.

\* Refer to Traceability Information, Section 4

**Packaging and Storage Conditions:**

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

**Expiration Information:**

The expiry date is guaranteed to be valid for one year from the shipping date provided and is guaranteed through the month of expiration. For this reason, standards from the same lot may have different expiration dates.

Shipped Date: June 2023  
Expiration Date: June 30, 2024  
Certificate Issue Date: August 17, 2022

*Moven Mututuvvari*  
Moven Mututuvvari, Ph.D, VP Manufacturing



40807

**Preparation Information:**

This Certified Reference Material (CRM) is generally prepared from single element standard solutions that are ISO 17034 certified reference materials and manufactured under appropriate laboratory conditions using the methods developed at NIST for SRM Spectrometric Standard Solutions. Sub-boiling distilled high-purity acid has been used to place the materials in solution and stabilize the standard. The matrix is as noted above in 18 megaohm deionized water. Stability of this product is based upon rigorous short-term and long-term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product. If, during the period of validity, a recall is instituted due to substantial changes in the stability of this product, the purchaser will be notified.

**Homogeneity:**

This product is determined to be homogeneous following in-house procedures developed in accordance with the requirements of ISO 17034 and ISO Guide 35.

**Intended Use:**

This product is intended for use as a calibration standard, quality control standard, and/or for the validation of analytical methods. The standard is confirmed homogeneous; therefore, the minimum sample size should be consistent with the end user's measurement capabilities.

**Traceability Information:**

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

**1. Standard Weight and Analytical Balance**

The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in 'NIST Weights and Measures Measurement Assurance Program' with a certificate of measurement traceability to NIST primary standards. The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

**2. Volumetric Device**

The calibrations of volumetric vessels are verified using the ASTM method E542.

**3. Thermometer**

The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

**4. Calibration Standards**

The Calibration Standard is traceable to SRM 3100 Series Spectrometric Standard Solutions. If an SRM is not available, a second source standard or independent lot is used.

**Refer to Safety Datasheet (SDS) for hazardous information.**

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High-Purity Standards.

F0867

# Certificate of Analysis

Certified Reference Material

**Product Description:** Scandium

**Product Number:** 100048-1-100  
**Lot Number:** 2301026-100  
**Matrix:** 2% HNO<sub>3</sub>  
**Density:** 1.020 g/mL ± 0.002 g/mL @ 21.0°C ± 0.3°C



**Certified Value:**

Element	µg/mL	SRM ID
Sc	1000 ± 4	3148a

The Certified value is based on gravimetric and volumetric preparation, and verified against NIST SRM 3100 series when available via inductively coupled plasma optical emission spectrometry (ICP-OES) and/or inductively coupled plasma mass spectrometry (ICP-MS) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor k is about 2.  
\* Refer to Traceability Information, Section 4

**Uncertified Values:**

**Trace Metal Impurity Scan:** The data reported are based upon a scan of this specific lot via ICP-OES/ICP-MS analysis. The values are reported in µg/L.

Ag	<0.02	Cr	<0.05	Mg	<0.1	Re	<0.02	Te	<0.02
Al	<3	Cs	<0.02	Mn	<0.2	REE	<35	Th	54
As	<0.05	Cu	<0.02	Mo	<0.02	Rh	<0.02	Ti	<0.02
Au	<0.02	Fe	<1	Na	62	Ru	<0.02	Tl	<0.02
B	<1	Ga	<0.02	Nb	<0.02	Sb	<0.02	U	<0.05
Ba	<0.02	Ge	<0.02	Ni	<1	Sc	M	V	<0.05
Be	<0.02	Hf	<0.3	Os	<0.02	Se	<0.3	W	<0.02
Bi	<0.02	In	<0.02	Pb	<0.05	Si	<5	Zn	<0.02
Ca	19	Ir	<0.02	Pd	<0.02	Sn	<0.5	Zr	<0.6
Cd	<0.02	K	45	Pt	<0.2	Sr	<0.02		
Co	<0.05	Li	<0.02	Rb	<0.02	Ta	<0.02		

**Packaging and Storage Conditions:**

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

**Expiration Information:**

The expiry date is guaranteed to be valid for eighteen months from the shipping date provided and is guaranteed through the month of expiration. For this reason, standards from the same lot may have different expiration dates.

**Shipped Date:** July 2023  
**Expiration Date:** January 31, 2025  
**Certificate Issue Date:** January 24, 2023

*Moven Mututuvvari*  
Moven Mututuvvari, Ph. D, VP Manufacturing

70807

**Preparation Information:**

This Certified Reference Material is prepared using **99.99%** pure **Scandium Oxide** which was purchased from a qualified vendor per ISO 9001 guidelines and assayed by analytical methods for conformity prior to use. This standard was manufactured under appropriate laboratory conditions using the methods developed at NIST for SRM Spectrometric Standard Solutions. Sub-boiling distilled high-purity acid has been used to place the materials in solution and stabilize the standard. The matrix is as noted above in 18 megaohm deionized water. Stability of this product is based upon rigorous short-term and long-term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product. If, during the period of validity, a recall is instituted due to substantial changes in the stability of this product, the purchaser will be notified.

**Homogeneity:**

This product is determined to be homogeneous following in-house procedures developed in accordance with the requirements of ISO 17034 and ISO Guide 35.

**Intended Use:**

This product is intended for use as a calibration standard, quality control standard, and/or for the validation of analytical methods. The standard is confirmed homogeneous; therefore, the minimum sample size should be consistent with the end user's measurement capabilities.

**Traceability Information:**

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

1. **Standard Weight and Analytical Balance**

The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in 'NIST Weights and Measures Measurement Assurance Program' with a certificate of measurement traceability to NIST primary standards. The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

2. **Volumetric Device**

The calibrations of volumetric vessels are verified using the ASTM method E542.

3. **Thermometer**

The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

4. **Calibration Standards**

The Calibration Standard is traceable to SRM 3100 Series Spectrometric Standard Solutions. If an SRM is not available, a second source standard or independent lot is used.

**Refer to Safety Datasheet (SDS) for hazardous information.**

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High-Purity Standards.



**SCP SCIENCE**

**CALIBRATION CERTIFICATE**

# *Digi*TUBE®

The volume lines on 15 ml, 50 ml and 100 ml *Digi*TUBEs were calibrated in accordance with ASTM Standard E542-01. The accuracy of all lines exceed the tolerance specifications of ISO 6706, Plastics laboratory ware – Graduated measuring cylinders, and meet the following tolerance requirements of

ASTM Standard E1272, Standard Specification for Laboratory Glass Graduated Cylinders:

+/- 0.10 ml for all volume lines on Autosampler tubes 16x100 mm and 17x100 mm (Class A)

+/- 0.10 ml for the 15 ml volume line on 15 ml tubes (Class A)

+/- 0.25 ml for all volume lines on 50 ml tubes (Class A)

+/- 0.50 ml for 50 ml and 100 ml volume lines on 100 ml tubes (Class A)

Instruments used to calibrate these digestion tubes have been calibrated using standards, which are ultimately traceable to National or International standards via an unbroken chain of comparison.

Lot number: \_\_\_\_

**506384-4932**

Certified by:



**CORPORATE HEADQUARTERS**

Phone: +1 (514) 457-0701  
Fax: +1 (514) 457-4499

**CANADA / USA**

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**SCP SCIENCE**

**CERTIFICAT D'ÉTALONNAGE**

# *Digi*TUBE®

Les traits de volume des *Digi*TUBEs 15 ml, 50 ml et 100 ml ont été étalonnés conformément à la norme ASTM E542-01. L'exactitude de tous ces traits excède les exigences de la norme ISO 6706, Matériel de laboratoire en plastique - Éprouvettes graduées cylindriques, et rencontre les tolérances suivantes spécifiées par la norme ASTM E1272, 'Standard Specification for Laboratory Glass Graduated Cylinders' :

+/- 0,10 ml pour tous les traits de volume sur les tubes pour échantillonneur automatique 16x100 mm et 17 x 100 mm (Class A)

+/- 0,10 ml pour les traits de volume de 15 ml sur les tubes 15 ml (Class A)

+/- 0,25 ml pour les traits de volume sur les tubes de 50 ml (Class A)

+/- 0,50 ml pour les traits de volume de 50 ml et 100 ml sur les tubes 100 ml (Class A)

Les instruments utilisés pour l'étalonnage des tubes de digestion ont été calibrés en utilisant des étalons traçables aux normes nationales ou internationales par une chaîne de comparaison ininterrompue.

Numéro de lot indiqué au verso : \_\_\_\_\_

Certifié par :



**SIÈGE SOCIAL**

**CANADA / É.-U.**

**FRANCE**

**ALLEMAGNE**

Tél.: +1 (514) 457-0701

Fax : +1 (514) 457-4499

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Fax : +49 (0) 8342-89560-69

[www.scpscience.com](http://www.scpscience.com) | [sales@scpscience.com](mailto:sales@scpscience.com)



Calculation of MDL per SOP ENT-027

Enter values into the highlighted cells.

Date Analyzed 10/12/23

Analyst LMP

Date Reviewed AMC

Reviewed By 10/13/23

Instrument O

Logbook Page

Injector (F,R,NA)

Column

Injector (F,R,NA)

Column

Job #(s) NIOSH 7303 MDLs for Au, Sn, and Mo

Applicable Method(s) NIOSH 7303 / 6010

Matrix 5% HNO3 / 5% HCL

Solvent

Seven (or more) replicates of a low concentration preparation are made. The worst injection(s) (farthest from the mean area) may be removed assuming an appropriate Outlier Test calculation shows the value(s) to be an outlier. At least seven injections must remain.

MDL = Stdev \* Student's t-value

t-value = 3.143 N=7 Degrees of Freedom = 6

t-value = 2.998 N=8 Degrees of Freedom = 7

t-value = 2.896 N=9 Degrees of Freedom = 8

t-value = 2.821 N=10 Degrees of Freedom = 9

Compound #	1	2	3	4	5	6	7	
Compound Name	Au208	Au242	Au267	Mo202	Mo204	Mo281	Mo284	
Notes (if needed)								PRIMAR
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Test Std Concentrations	#1 38.30000	#1 39.99000	#1 40.57000	#1 40.75000	#1 39.68000	#1 41.11000	#1 40.03000	#1
	#2 40.04000	#2 40.12000	#2 43.27000	#2 41.68000	#2 40.96000	#2 42.23000	#2 41.85000	#2
	#3 38.64000	#3 40.06000	#3 41.42000	#3 40.92000	#3 40.75000	#3 40.72000	#3 38.95000	#3
	#4 38.50000	#4 40.86000	#4 42.09000	#4 40.69000	#4 40.54000	#4 41.14000	#4 39.84000	#4
	#5 39.40000	#5 38.85000	#5 42.05000	#5 39.94000	#5 39.92000	#5 40.97000	#5 41.28000	#5
	#6 38.05000	#6 38.87000	#6 41.08000	#6 40.13000	#6 40.08000	#6 41.33000	#6 41.23000	#6
	#7 33.57000	#7 34.19000	#7 35.42000	#7 34.73000	#7 34.67000	#7 36.47000	#7 35.37000	#7
	#8 38.77000	#8 39.39000	#8 41.08000	#8 40.22000	#8 39.94000	#8 40.63000	#8 39.80000	#8
	#9	#9	#9	#9	#9	#9	#9	#9
	#10	#10	#10	#10	#10	#10	#10	#10
Standard Deviation	1.9600	2.0747	2.3551	2.1527	2.0286	1.7298	2.0298	
Student's T factor	2.998	2.998	2.998	2.998	2.998	2.998	2.998	
Calculated MDL = StDev * t	5.876	6.220	7.060	6.454	6.082	5.186	6.085	
Concentration of Std	40.000	40.000	40.000	40.000	40.000	40.000	40.000	
Lowest Part 136 App B value*	4.000	4.000	4.000	4.000	4.000	4.000	4.000	
MDL value <1/10 Std Value?	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
<b>MDL to Use</b>	<b>5.87594</b>	<b>6.22006</b>	<b>7.06045</b>	<b>6.45379</b>	<b>6.08179</b>	<b>5.18596</b>	<b>6.08521</b>	

\*40 CFR Part 136 Appendix B, a common detection limit guidance, indicates that the MDL can not be <1/10th the standard used to set the MDL.

MDL to use is the maximum of the Calculated MDL, lowest integratable concentration and the Lowest Part 136 B value.

8	9
Sn189	Sn283
<b>Y LINE</b>	<b>-15</b> ICSA Interference
ppm	ppm
41.54000	#1 22.81000
42.74000	#2 26.94000
41.69000	#3 24.44000
42.13000	#4 24.21000
42.00000	#5 21.40000
41.70000	#6 23.61000
37.67000	#7 24.94000
41.65000	#8 26.39000
	#9
	#10
1.5518	1.8074
2.998	2.998
4.652	5.419
40.000	40.000
4.000	4.000
Pass	Pass
<b>4.65233</b>	<b>5.41857</b>

Calculation of MDL per SOP ENT-027

Enter values into the highlighted cells.

Date Analyzed 2/22/23

Analyst MAD

Date Reviewed 3/2/23

Reviewed By AMC

Instrument O

Logbook Page

Injector (F,R,NA)

Column

Injector (F,R,NA)

Column

Job #(s) 0223-127

Applicable Method(s) Niosh 7303

Matrix 5%/5%

Solvent

Seven (or more) replicates of a low concentration preparation are made. The worst injection(s) (farthest from the mean area) may be removed assuming an appropriate Outlier Test calculation shows the value(s) to be an outlier. At least seven injections must remain.

MDL = Stdev \* Student's t-value

t-value = 3.143 N=7 Degrees of Freedom = 6

t-value = 2.998 N=8 Degrees of Freedom = 7

t-value = 2.896 N=9 Degrees of Freedom = 8

t-value = 2.821 N=10 Degrees of Freedom = 9

Compound #	1	2	3	4	5	6	7	
Compound Name	Ag 328	As 189	As 193	Ba 233	Ba 455	Be 234	Be 313	
Notes (if needed)								
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Test Std Concentrations	#1 5.50500	#1 8.47700	#1 7.87400	#1 2.15800	#1 2.13700	#1 0.89800	#1 1.00100	#1
	#2 5.38200	#2 9.65900	#2 7.37100	#2 2.03200	#2 2.13400	#2 0.92210	#2 0.97540	#2
	#3 5.79000	#3 8.72300	#3 9.03200	#3 2.31400	#3 2.28200	#3 0.97840	#3 1.01900	#3
	#4 5.80300	#4 7.92300	#4 8.23500	#4 2.24000	#4 2.21900	#4 0.88620	#4 0.99700	#4
	#5 5.60000	#5 8.32500	#5 8.52500	#5 2.12500	#5 2.16200	#5 0.84240	#5 0.97910	#5
	#6 5.18400	#6 7.35100	#6 8.21000	#6 2.07600	#6 2.13600	#6 0.92960	#6 0.96870	#6
	#7 4.93500	#7 9.13300	#7 6.67500	#7 2.01900	#7 2.08300	#7 0.85760	#7 0.94900	#7
	#8 5.47900	#8 8.33400	#8 7.98700	#8 2.17300	#8 2.15700	#8 0.92550	#8 0.97210	#8
	#9	#9	#9	#9	#9	#9	#9	#9
	#10	#10	#10	#10	#10	#10	#10	#10
!! Remove extra zeros !!								
Standard Deviation	0.2943	0.7076	0.7178	0.1016	0.0609	0.0435	0.0219	
Student's T factor	2.998	2.998	2.998	2.998	2.998	2.998	2.998	
Calculated MDL = StDev * t	0.882	2.121	2.152	0.305	0.183	0.131	0.066	
Concentration of Std	5.000	10.000	10.000	2.000	2.000	1.000	1.000	
Lowest Part 136 App B value*	0.500	1.000	1.000	0.200	0.200	0.100	0.100	
MDL value <1/10 Std Value?	Pass	Pass	Pass	Pass	<1/10 Conc of Std	Pass	<1/10 Conc of Std	
<b>MDL to Use</b>	<b>0.88241</b>	<b>2.12137</b>	<b>2.15184</b>	<b>0.30464</b>	<b>0.20000</b>	<b>0.13055</b>	<b>0.10000</b>	
LOQ / (AVG & RSD)	111.2	3.76	89.5	6.97	80.9	10.53	108.4	6.52
	109.2	3.87	93.3	4.42	99.8	2.19	121.77	

\*40 CFR Part 136 Appendix B, a common detection limit guidance, indicates that the MDL can not be <1/10th the standard used to set the MDL. MDL to use is the maximum of the Calculated MDL, lowest integratable concentration and the Lowest Part 136 B value.

8	9		10		11		12		13		14		15		16	
Ca 317	Ca 393		Cd 214		Cd 228		Co 228		Co 238		Cr 267		Cr 283		Cu 324	
ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm
61.06000	#1	64.15000	#1	1.12400	#1	1.07400	#1	5.10700	#1	2.33800	#1	1.79100	#1	1.63200	#1	9.94900
60.45000	#2	64.35000	#2	1.05300	#2	1.04900	#2	5.18600	#2	2.86800	#2	1.87900	#2	2.14600	#2	9.53500
OUTLIER	#3	OUTLIER	#3	1.11900	#3	1.10290	#3	5.40900	#3	3.14000	#3	1.89600	#3	2.15000	#3	10.56000
62.38000	#4	67.43000	#4	1.08800	#4	1.05200	#4	5.30000	#4	3.32300	#4	2.01300	#4	2.19700	#4	10.33000
62.96000	#5	66.00000	#5	1.12600	#5	1.10100	#5	5.23200	#5	0.02943	#5	2.23000	#5	2.05600	#5	9.81600
57.32000	#6	61.80000	#6	1.11900	#6	0.95430	#6	5.08100	#6	2.98800	#6	2.13300	#6	1.75000	#6	9.67600
89.46000	#7	96.38000	#7	1.05100	#7	0.96090	#7	4.87000	#7	2.01600	#7	2.09000	#7	2.10000	#7	9.80400
56.45000	#8	59.64000	#8	1.09600	#8	1.07600	#8	4.95400	#8	2.57800	#8	1.73600	#8	2.32900	#8	10.20000
	#9		#9		#9		#9		#9		#9		#9		#9	
	#10		#10		#10		#10		#10		#10		#10		#10	
11.3591		12.5447		0.0309		0.0581		0.1775		1.0533		0.1736		0.2347		0.3498
3.143		3.143		2.998		2.998		2.998		2.998		2.998		2.998		2.998
35.702		39.428		0.093		0.174		0.532		3.158		0.520		0.704		1.049
50.000		50.000		1.000		1.000		5.000		5.000		2.000		2.000		10.000
5.000		5.000		0.100		0.100		0.500		0.500		0.200		0.200		1.000
Pass		Pass		<1/10 Conc of Std		Pass		Pass		Pass		Pass		Pass		Pass
35.70155		39.42795		0.10000		0.17423		0.53217		3.15779		0.52046		0.70376		1.04866
5.10	130.15	4.50	109.9	3.61	107.5	2.51	104.7	2.99	55.6	14.66	92.8	3.04	98.8	15.08	100.1	5.15

17	18	19	20
Cu 327	Fe 238	Fe 259	K 766

	ppm		ppm		ppm		ppm
#1	9.69200	#1	68.02000	#1	67.43000	#1	50.32000
#2	9.24000	#2	53.86000	#2	52.63000	#2	49.17000
#3	10.46000	#3	61.54000	#3	60.78000	#3	53.46000
#4	9.75200	#4	61.15000	#4	60.44000	#4	50.66000
#5	9.86100	#5	OUTLIER	#5	OUTLIER	#5	50.50000
#6	10.16000	#6	56.81000	#6	56.13000	#6	50.01000
#7	9.83900	#7	81.16000	#7	79.63000	#7	OUTLIER
#8	9.93500	#8	69.85000	#8	69.68000	#8	51.44000
#9		#9		#9		#9	
#10		#10		#10		#10	
	0.3545		9.2266		9.1501		1.3605
	2.998		3.143		3.143		3.143
	1.063		28.999		28.759		4.276
	10.000		50.000		50.000		50.000
	1.000		5.000		5.000		5.000
	Pass		Pass		Pass		<1/10 Conc of Std
	1.06293		28.99932		28.75876		5.00000
98.0	6.30	122.3	11.59	120.6	12.30	102.0	4.36



17	18	19	20
Cu 327	Fe 238	Fe 259	K 766

	ppm		ppm		ppm		ppm
#1	9.69200	#1	68.02000	#1	67.43000	#1	50.32000
#2	9.24000	#2	53.86000	#2	52.63000	#2	49.17000
#3	10.46000	#3	61.54000	#3	60.78000	#3	53.46000
#4	9.75200	#4	61.15000	#4	60.44000	#4	50.66000
#5	9.86100	#5	OUTLIER	#5	OUTLIER	#5	50.50000
#6	10.16000	#6	56.81000	#6	56.13000	#6	50.01000
#7	9.83900	#7	81.16000	#7	79.63000	#7	OUTLIER
#8	9.93500	#8	69.85000	#8	69.68000	#8	51.44000
#9		#9		#9		#9	
#10		#10		#10		#10	
	0.3545		9.2266		9.1501		1.3605
	2.998		3.143		3.143		3.143
	1.063		28.999		28.759		4.276
	10.000		50.000		50.000		50.000
	1.000		5.000		5.000		5.000
	Pass		Pass		Pass		<1/10 Conc of Std
	1.06293		28.99932		28.75876		5.00000
98.0	6.30	122.3	11.59	120.6	12.30	102.0	4.36

Calculation of MDL per SOP ENT-027

Enter values into the highlighted cells.

Date Analyzed 2/22/23

Analyst

Date Reviewed 3/2/23

Reviewed By AMC

Seven (or more) replicates of a low concentration peak (farthest from the mean area) may be removed assuming the value(s) to be an outlier. At least

Instrument O

Logbook Page

Injector (F,R,NA)

Column

Injector (F,R,NA)

Column

MDL = Stdev \* Student's t-value

t-value = 3.143 N=7 Degrees of Freedom

t-value = 2.998 N=8 Degrees of Freedom

t-value = 2.896 N=9 Degrees of Freedom

t-value = 2.821 N=10 Degrees of Freedom

Job #(s) 0223-127

Applicable Method(s)

Matrix

Solvent

Compound #

Compound Name

Notes (if needed)

1

2

3

4

5

Al 167

Units

Test Std Concentrations

ppm

ppm

ppm

ppm

ppm

#1

55.36000

#1

0.00000

#1

0.00000

#1

0.00000

#1

0.00000

#1

#2

55.69000

#2

0.00000

#2

0.00000

#2

0.00000

#2

0.00000

#2

#3

59.36000

#3

0.00000

#3

0.00000

#3

0.00000

#3

0.00000

#3

#4

57.50000

#4

0.00000

#4

0.00000

#4

0.00000

#4

0.00000

#4

#5

55.82000

#5

0.00000

#5

0.00000

#5

0.00000

#5

0.00000

#5

#6

54.59000

#6

0.00000

#6

0.00000

#6

0.00000

#6

0.00000

#6

#7

64.32000

#7

0.00000

#7

0.00000

#7

0.00000

#7

0.00000

#7

#8

55.98000

#8

0.00000

#8

0.00000

#8

0.00000

#8

0.00000

#8

!! Remove extra zeros !!

#9

0.00000

#9

0.00000

#9

0.00000

#9

0.00000

#9

0.00000

#9

#10

0.00000

#10

0.00000

#10

0.00000

#10

0.00000

#10

0.00000

#10

Standard Deviation

3.1891

0.0000

0.0000

0.0000

0.0000

Student's T factor

2.998

2.821

2.821

2.821

2.821

Calculated MDL = StDev \* t

9.561

0.000

0.000

0.000

0.000

Concentration of Std

50.000

0.000

0.000

0.000

0.000

Lowest Part 136 App B value\*

5.000

0.000

0.000

0.000

0.000

MDL value &lt;1/10 Std Value?

Pass

Pass

Pass

Pass

Pass

MDL to Use

9.56079

0.00000

0.00000

0.00000

0.00000

LOQ / AVG CONC. &amp; RSD

113.6

3.91

\*40 CFR Part 136 Appendix B, a common detection limit guidance, indicates that the MDL can not be <1/10th the standard used to set the MDL. MDL to use is the maximum of the Calculated MDL, lowest integratable concentration and the Lowest Part 136 B value.



Calculation of MDL per SOP ENT-027

Enter values into the highlighted cells.

Date Analyzed 2/22/23

Analyst MAD

Date Reviewed 3/2/23

Reviewed By AMC

Instrument O

Logbook Page

Injector (F,R,NA)

Column

Injector (F,R,NA)

Column

Job #(s) 0223-127

Applicable Method(s) NIOSH 7303

Matrix 5%/5%

Solvent

Seven (or more) replicates of a low concentration preparation are made. The worst injection(s) (farthest from the mean area) may be removed assuming an appropriate Outlier Test calculation shows the value(s) to be an outlier. At least seven injections must remain.

MDL = Stdev \* Student's t-value

t-value = 3.143 N=7 Degrees of Freedom = 6

t-value = 2.998 N=8 Degrees of Freedom = 7

t-value = 2.896 N=9 Degrees of Freedom = 8

t-value = 2.821 N=10 Degrees of Freedom = 9

Compound #	1	2	3	4	5	6	7	
Compound Name	Mg 279	Mg 280	Mg 285	Mn 257	Mn 259	Na 589	Ni 231	
Notes (if needed)								
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Test Std Concentrations	#1 51.78000	#1 52.08000	#1 51.64000	#1 2.32000	#1 2.36200	#1 43.72000	#1 5.35400	#1
	#2 51.26000	#2 50.91000	#2 50.94000	#2 2.08600	#2 2.21000	#2 42.80000	#2 5.10100	#2
	#3 57.10000	#3 56.18000	#3 56.33000	#3 2.37400	#3 2.39200	#3 51.32000	#3 5.55500	#3
	#4 53.16000	#4 52.16000	#4 52.61000	#4 2.18400	#4 2.32900	#4 44.97000	#4 5.65500	#4
	#5 52.32000	#5 52.48000	#5 51.99000	#5 2.44200	#5 2.59000	#5 43.82000	#5 5.73300	#5
	#6 52.06000	#6 50.84000	#6 51.22000	#6 2.21600	#6 2.32500	#6 43.71000	#6 5.57000	#6
	#7 51.81000	#7 50.68000	#7 50.84000	#7 2.41300	#7 2.54600	#7 OUTLIER	#7 5.62300	#7
	#8 53.07000	#8 52.49000	#8 52.28000	#8 2.26700	#8 2.40000	#8 47.35000	#8 5.56600	#8
!! Remove extra zeros !!	#9	#9	#9	#9	#9	#9	#9	#9
	#10	#10	#10	#10	#10	#10	#10	#10
Standard Deviation	1.8462	1.7662	1.7720	0.1225	0.1227	2.9991	0.2011	
Student's T factor	2.998	2.998	2.998	2.998	2.998	3.143	2.998	
Calculated MDL = StDev * t	5.535	5.295	5.312	0.367	0.368	9.426	0.603	
Concentration of Std	50.000	50.000	50.000	2.000	2.000	50.000	5.000	
Lowest Part 136 App B value*	5.000	5.000	5.000	0.200	0.200	5.000	0.500	
MDL value <1/10 Std Value?	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
<b>MDL to Use</b>	<b>5.53493</b>	<b>5.29515</b>	<b>5.31234</b>	<b>0.36719</b>	<b>0.36792</b>	<b>9.42612</b>	<b>0.60297</b>	
LOQ / AVG & RSD	106.8 6.05	106.1 5.22	105.9 5.53	113.0 6.77	116.1 4.20	91.9 10.18	106.7 4.26	86.0

\*40 CFR Part 136 Appendix B, a common detection limit guidance, indicates that the MDL can not be <1/10th the standard used to set the MDL. MDL to use is the maximum of the Calculated MDL, lowest integratable concentration and the Lowest Part 136 B value.



17	18	19	20
V 292	Zn 202	Zn 206	Ag 338

	ppm		ppm		ppm		ppm
#1	10.51000	#1	41.64000	#1	41.76000	#1	4.78900
#2	10.95000	#2	41.00000	#2	41.26000	#2	5.14400
#3	11.02000	#3	43.76000	#3	44.24000	#3	5.79000
#4	11.08000	#4	42.53000	#4	42.97000	#4	5.04800
#5	10.58000	#5	41.42000	#5	41.34000	#5	4.75400
#6	10.69000	#6	41.97000	#6	42.10000	#6	5.15600
#7	10.27000	#7	41.28000	#7	41.32000	#7	4.17400
#8	10.97000	#8	41.14000	#8	41.32000	#8	5.44700
#9		#9		#9		#9	
#10		#10		#10		#10	
	0.2903		0.9185		1.0638		0.4851
	2.998		2.998		2.998		2.998
	0.870		2.754		3.189		1.454
	10.000		40.000		40.000		5.000
	1.000		4.000		4.000		0.500
	<1/10 Conc of Std		<1/10 Conc of Std		<1/10 Conc of Std		Pass
	1.00000		4.00000		4.00000		1.45430
108.3	2.55	105.3	3.43	106.1	3.76	104.8	9.68

Analyst: MAD

Date: 2/21/23

Job #s

Niosh 7303 MDLs

Describe Work Documented on This Page

Niosh 7303 MDLs

1374A: Niosh 7303 Prep Sheet

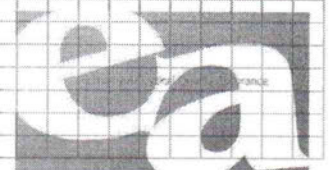
Supplies, Ancillary Equipment  
Serial #s, Lot #s, Etc

N/A

MAD 2/21/23

Reviewer's Initials & Date:

Metals Prep  
page 1374



ENTHALPY  
ANALYTICAL





**ENTHALPY**  
ANALYTICAL

# NIOSH 7303 Prep Sheet

Analyst(s): M.A.D.

## Reagents

## Samples

Hydrochloric Acid	ID: SCAZ118048	exp: 4/25
-------------------	----------------	-----------

**Sample ID**

Final Vol. (mL)

MDL 1 (2)

25

2

22

4

5

10

7

6

### Support Equipment

HotPlate #	9
------------	---

Conc. HNO <sub>3</sub> Pip # & Exp	143	5/9/23
------------------------------------	-----	--------

Conc. HCl	Pip #	& Exp
-----------	-------	-------

LCS/MS Pip # & Exp	1	1
--------------------	---	---

## Comments:

② MDLs were spiked with 50  $\mu$ L of the NIOSH working std. Refer to attached Paper with the working std instructions.  
MAD 2/23/23

11/14/22

## Quality Control

QC Sample	Sample ID	Spike ID	Spike Conc.	Final Vol. (mL)	Volume Added (mL)
MB	N/A	N/A	N/A	25	N/A
LCS	N/A	F0824 <sup>①</sup>	100	↓	0.25mL
MS	N/A	N/A	N/A	N/A	N/A
DUP	↓	N/A	N/A	↓	N/A

① made a 1:10 of F0824 [exp: 7/31/25]

1 mL Std (pip 124 exp 3/4/23) and brought to 10 mL with pip 143 exp 5/9/23.

NIOSH Working MDL Std: (made by KAH on 2/21/23) KAH 2/21/23 exp: 2/28/23

Ag F0798	1000 ppm	4/1/23	125 $\mu$ L added WS Conc: 2.5 ppm MDL Conc: 5 ppb Pipette: 124 3/4/23	Digitube ID: J506384-4932 Diluent: 5% $\text{HNO}_3$ / 5% $\text{HCl}$ 25 mL $\text{HNO}_3$ 22400034 10/24 25 mL $\text{HCl}$ SCA2118048 4/25 Brought to 500 mL w/ DI
Co F0728		6/30/27		
Ni F0729		5/31/25		
Pb F0802		6/30/29		

As F0695	1000 ppm	4/27	250 $\mu$ L w/ pipette 124 3/4/23 WS conc: 5 ppm MDL Conc: 10 ppb
Cu F0789		5/31/29	
Sb F0816		11/9/23	
Se F0645		12/25	
V F0457		9/30/23	
Tl F0676	10,000 ppm	7/31/27	

Made 1000 ppm Tl w/ 1 mL STD w/ pipette  
124 3/4/23 brought to 10 mL w/ diluent  
pipette 143 5/9/23

Ba F0679	1000 ppm	4/30/25	50 $\mu$ L w/ pipette 127 3/4/23 WS conc: 1 ppm MDL conc: 2 ppb
Cr F0583		4/30/26	
Mn F0731		10/31/27	

Be F0734	1000 ppm	6/30/27	25 $\mu$ L w/ pipette 127 3/4/23 WS conc: 0.5 ppm MDL conc: 1 ppb
Cd F0793		4/17/23	

P F0807 1000 ppm 6/24 - 1.25 mL w/ pipette 124 3/4/23  
WS conc: 25 ppm MDL conc: 50 ppb

Zn F0703 1000 ppm 4/30/26 - 1 mL w/ pipette 124 3/4/23  
WS conc: 20 ppm MDL conc: 40 ppb

Brought up to 50 mL w/ diluent

NIOSH Minerals + Al MDL Working STD: (made by KAH on 2/21/23) KAH 2/21/23

Na F0715	1000 ppm	7/26	1.25 mL w pipette 124 3/4/23 WS Conc 25 ppm MDL Conc: 50 ppb Brought up to 50 mL w/ diluent	exp: 2/28/23
K F0681		7/31/25		
Fe F0644		1/26		
Mg F0649		9/25		
Ca F0699		9/30/25		
Al F0757		2/21/24		



Analyst: ENC

Date: 10-11-23

Job #s

1023-068

Describe Work Documented on This Page

NIOSH 7303 Prep

1609A = NIOSH 7303 Prep sheet

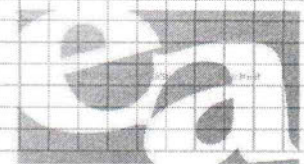
Supplies, Ancillary Equipment  
Serial #s, Lot #s, Etc

NA

ENC 10-11-23

Reviewer's Initials & Date:

Metals Prep  
page1809



ENTHALPY  
ANALYTICAL

1809A



# NIOSH 7303 Prep Sheet

Date: 10-11-23					
Analyst(s): ENL					
Reagents		Samples			
Nitric Acid	ID: 63013 exp: 8/24				
Hydrochloric Acid	ID: 6225 exp: 4/25	Sample ID	Final Vol. (mL)		
		1023-0646.1	25		
		.2			
		.3			
Support Equipment					
Digitube ID #	5576690-4348	NIOSH MDL:1			
HotPlate #	9	.2			
Conc. HNO <sub>3</sub> Pip # & Exp	153 10/20/23	.3			
Conc. HCl Pip # & Exp	1 1	.4			
LCS/MS Pip # & Exp	① ①	.5			
		.6			
		.7			
		.8			
Comments: ① see Back of page ② Added After crosscut ENL 10-11-23 ③ see Back of page		<div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; right: 0; transform: rotate(45deg);"> ENL 10-11-23 </div> </div>			

## Quality Control

QC Sample	Sample ID	Spike ID	Spike Conc.	Final Vol. (mL)	Volume Added (mL)
MB	N/A	N/A	N/A	25	N/A
LCS	N/A	①	①	1	①
MS	N/A	N/A	N/A	N/A	N/A
DUP	1	N/A	N/A	1	N/A



① LCS Spike Final Conc.: 400 ppb all elements

SEE ENCL 10-11-23

FO8684 Multi Std. (exp 6/24): 0.1 mL std. pip. 126 exp 10/14/23 to digitube  
(100 ppm) <sup>④</sup> Final Conc. in LCS: 400 ppb

1 mL 10 ppm Au + Sn Std: 0.1 mL 1000 ppm Au std (FO835 exp. 9/30/24)  
(pip 135 exp 10/18/23)

0.1 mL 1000 ppm Sn std (FO761 exp 12/23)  
(pip 132 exp 12/11/23)

9.40 mL 5% HNO<sub>3</sub>/5% HCl (see front for IDs)  
(pip 143 exp 10/20/23)

Final Conc. in LCS: 400 ppb

② MDL Spike: 0.1 mL (pip 132 exp 12/11/23) to each digitube

10 ppm WS: 0.1 mL 1000 ppm Au std. (FO835 exp 9/30/24)

0.1 mL 1000 ppm Sn std (FO761 exp 12/23) } pip 132

0.1 mL 1000 ppm Mo std. (FO804 exp 3/24) } exp 12/11/23

9.70 mL 5% HNO<sub>3</sub>/5% HCl (see front for IDs) } pip 143 exp 10/20/23

Final Conc. in MDLs: 40 ppb Sn, Au, Mo

## ICP-OES Raw Data Coversheet

Doc. No.: RD03

Rev.: G

Effective Date: 08-03-20

Instrument (O) / T ① EEMAD  
① 2/23/23

Analyst(s):	MAD		Analysis Date(s):	2/22/22 23	
EA Project #s:	Niosh 7303 MDL				
Analytes & λ's:	H <sub>a</sub> Al As Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Na Ni Pb Sb Se Ti V Zn				
Method:	18010	Internal Std ID:	ES-0841	Conc:	1 ppm
Diluent:	50	mL HNO <sub>3</sub>	ID# 22400034	Exp:	10/24
	50	mL HCl	ID# SCA2119048	Exp:	4/25
		mL HF	ID#	Exp:	
DILUTED TO 1000 mL WITH DI WATER					
CalBlk/ICB/CCB: Diluent					
EA ID'S	Std ID's:			ICV/CCV ID:	
	Conc.'s:			Conc:	
	Exp Dates:			Exp Date:	
Use table below for freshly prepared standards (NO ID's):					
Calibration Standards - Made from Working Std EA ID#: F0824 (Stock Concentration: 100 ppm / 1000 ppm)					
Exp Date: 7/31/25 and brought up with Diluent					
	Final Conc. (ppb)	Amount WS (μL)	Pipette # & Exp:	Final Vol (mL)	Pipette # & Exp:
Standard 1	1	50 STD 9	127 3/4/23	50	N/A
Standard 2	2	100	1		
Standard 3	5	250	124		
Standard 4	10	500			
Standard 5	40	2 mL			
Standard 6	50	2.5 mL			
Standard 7	100	5 mL	143 5/9/23		
Standard 8	200	100	127 3/4/23		
Standard 9	1000	500	124		
Standard 10	2000	1000	1		
Secondary Standard - Made from Working Std EA ID#: F0814 (Stock Concentration: 10 ppm)					
Exp Date: 11/23 and brought up with Diluent					
	Final Conc. (ppb)	Amount WS (μL)	Pipette # & Exp:	Final Vol (mL)	Pipette # & Exp:
ICV/CCV	1000	5 mL	143 5/9/23	50	N/A
CCV2 - See back for how it was made MAD 2/23/23					
ICS's - Made from Stock Std ICS-A ID# (F0812 Exp: 10/24/23) & Metals Std ID# (F0814)					
Conc: 10 ppm Exp: 11/23 brought up with Diluent					
	Conc.	Amount WS (μL)	Pipette # & Exp:	Final Vol (mL)	Pipette # & Exp:
ICS-A	Multi	50	127 3/4/23		143
	Multi	1	1	10	5/9/23
ICS-AB	100 ppb	1 mL CCV2	124 127		



# ICP-OES Raw Data Coversheet

## Instrument 0/T

Doc. No.: RD03  
Rev.: G  
Effective Date: 08-03-20

Post Dig Matrix Spike Samples - Diluted with Diluent (Metals Mix ID# _____ Conc: _____ Exp: _____)								
Sample ID	Dilution Factor of Field Sample	Aliquot of Sample (mL)	Final Conc. (ppb)	Amount of Spike Added (µL)	Pipette # & Exp:	Final Vol (mL)	Pipette # & Exp:	Analyst
						10		
						10		
						10		
						10		
						10		
						10		
						10		
						10		
						10		
						10		
						10		

Sample Dilution Tracker - Diluted with Diluent						
Sample ID (s)	Dilution Factor of Sample	Aliquot of Sample (mL)	Pipette # & Exp:	Final Vol (mL)	Pipette # & Exp:	Analyst

### Comments:

1 ppm CCV2

Al: F0757 exp 2/21/24  
Ca: F0699 exp 9/30/25  
Fe: F0805 exp 6/24  
K: F0681 exp 7/31/25  
Mg: F0709 exp 3/23  
Na: F0715 exp 7/26  
V: F0754 exp 3/22/23

1 mL of each stock std using pip 124  
exp 3/14/23 to a 100 mL digitube. Brought to  
Volume with diluent. MAD 2/24/23



	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status
	Ag 328.068 {103}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	-0.000218	0.000296	0.000000	1.000000	0.999878	0.000022	0.594363	1.981210	OK
	Ag 338.289 {100}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000250	0.000173	0.000000	1.000000	0.999951	0.000008	1.014206	3.380686	OK
	Al 167.079 {502}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000307	0.000025	0.000000	1.000000	0.999488	0.000013	0.394667	1.315556	OK
	Al 309.271 {109}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.004123	-0.000050	0.000000	1.000000	0.998256	0.000047	-1.000000	-1.000000	Wamin
	As 189.042 {479}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	-0.000017	0.000008	0.000000	1.000000	0.999971	0.000000	2.136863	7.122876	OK
	As 193.759 {474}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	-0.000016	0.000012	0.000000	1.000000	0.999896	0.000001	1.836205	6.120684	OK
	Ba 233.527 {445}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	-0.000025	0.000264	0.000000	1.000000	0.999873	0.000012	0.104345	0.347816	OK
	Ba 455.403 { 74}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.011647	0.020815	0.000000	1.000000	0.999731	0.001409	0.023783	0.079276	OK
	Be 234.861 {144}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000090	0.001033	0.000000	1.000000	0.999996	0.000006	0.069690	0.232299	OK
	Be 313.042 {108}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000860	0.009203	0.000000	1.000000	0.999944	0.000199	0.018020	0.060066	OK
	Ca 317.933 {106}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.001037	0.000276	0.000000	1.000000	0.998529	0.000238	0.620006	2.066686	OK
	Ca 393.366 { 86}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.145913	0.040819	0.000000	1.000000	0.996554	0.053795	0.006774	0.022581	OK
	Cd 214.438 {457}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000010	0.000565	0.000000	1.000000	0.999924	0.000014	0.055277	0.184258	OK
	Cd 228.802 {447}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000236	0.000285	0.000000	1.000000	0.999938	0.000006	0.127325	0.424417	OK
	Co 228.616 {448}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	-0.000018	0.000129	0.000000	1.000000	0.999868	0.000010	0.226755	0.755851	OK
	Co 238.892 {141}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000127	0.000164	0.000000	1.000000	0.999940	0.000008	0.545334	1.817782	OK
	Cr 267.716 {126}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000276	0.000255	0.000000	1.000000	0.999913	0.000010	0.435932	1.453107	OK
	Cr 283.563 {119}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.001240	0.000307	0.000000	1.000000	0.999933	0.000010	0.393194	1.310647	OK
	Cu 324.754 {104}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000557	0.000423	0.000000	1.000000	0.999887	0.000043	0.423502	1.411673	OK
	Cu 327.396 {103}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	-0.003409	0.000246	0.000000	1.000000	0.999874	0.000026	0.804225	2.680750	OK
	Fe 238.204 {142}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000134	0.000171	0.000000	1.000000	0.998084	0.000168	0.427836	1.426120	OK
	Fe 259.940 {130}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000274	0.000261	0.000000	1.000000	0.998173	0.000250	0.374930	1.249766	OK
	K 766.490 { 44}	2/22/2023 11:25:25	2/22/2023 11:25:25	Linear	1/Conc	0.002457	0.001459	0.000000	1.000000	0.999866	0.000402	0.573008	1.910027	OK
	K 769.896 { 44}	2/22/2023 11:25:25	2/22/2023 11:25:25	Linear	1/Conc	0.019064	0.000611	0.000000	1.000000	0.999843	0.000182	1.094340	3.647799	OK
	Mg 279.553 {121}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.003284	0.006410	0.000000	1.000000	0.999738	0.002322	0.015022	0.050072	OK
	Mg 280.270 {120}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.002484	0.004791	0.000000	1.000000	0.999694	0.001877	0.024771	0.082572	OK
	Mg 285.213 {118}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000210	0.000762	0.000000	1.000000	0.999923	0.000149	0.172343	0.574478	OK
	Mn 257.610 {131}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000164	0.001521	0.000000	1.000000	0.999783	0.000093	0.067068	0.223559	OK
	Mn 259.373 {130}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000027	0.001302	0.000000	1.000000	0.999763	0.000083	0.082579	0.275263	OK
	Na 589.592 { 57}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.015869	0.004032	0.000000	1.000000	0.999392	0.002228	0.192322	0.641073	OK
	Ni 231.604 {446}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	-0.000064	0.000102	0.000000	1.000000	0.999861	0.000008	0.331179	1.103931	OK
	Ni 341.476 { 99}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	-0.000390	0.000064	0.000000	1.000000	0.999755	0.000007	3.007168	10.023894	OK
	Pb 216.999 {455}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000047	0.000008	0.000000	1.000000	0.999846	0.000001	3.736319	12.454396	OK
	Pb 220.353 {453}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000003	0.000034	0.000000	1.000000	0.999891	0.000002	1.650913	5.503043	OK
	Pb 283.306 {119}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	-0.000121	0.000012	0.000000	1.000000	0.998309	0.000003	11.109089	37.030298	OK
	Sb 206.833 {463}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000023	0.000021	0.000000	1.000000	0.999948	0.000001	1.370322	4.567741	OK
	Sb 217.581 {455}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000103	0.000021	0.000000	1.000000	0.999898	0.000002	1.580663	5.268878	OK
	Sc 361.384 { 93}	2/22/2023 10:56:02	2/22/2023 10:56:02	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000	Wamin
	Se 196.090 {472}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000052	0.000011	0.000000	1.000000	0.999927	0.000001	2.149259	7.164197	OK
	Se 203.985 {465}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	-0.000032	0.000007	0.000000	1.000000	0.999372	0.000002	3.958701	13.195669	OK
	Ti 190.856 {477}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	-0.000047	0.000022	0.000000	1.000000	0.999823	0.000003	0.974502	3.248340	OK
	Ti 351.924 { 96}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000071	0.000011	0.000000	1.000000	0.993311	0.000009	19.365246	64.550822	OK
	V 292.402 {115}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	-0.000041	0.000272	0.000000	1.000000	0.999973	0.000013	0.495104	1.650346	OK
	V 309.311 {109}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	-0.021227	0.000617	0.000000	1.000000	0.999928	0.000050	0.374340	1.247799	OK
	Zn 202.548 {467}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000076	0.000272	0.000000	1.000000	0.999871	0.000060	0.077830	0.259434	OK
	Zn 206.200 {464}	2/22/2023 11:33:28	2/22/2023 11:33:28	Linear	1/Conc	0.000066	0.000169	0.000000	1.000000	0.999875	0.000037	0.139314	0.464380	OK



<b>Sample Type</b>	<b>Sample Name</b>	<b>Acquired Date/Time</b>
Standard	CalibStd-Blk	2/22/2023 9:59
Standard	CalibStd-1ppb	2/22/2023 10:03
Standard	CalibStd-2 ppb	2/22/2023 10:07
Standard	CalibStd-5 ppb	2/22/2023 10:11
Standard	CalibStd-10 ppb	2/22/2023 10:14
Standard	CalibStd-40 ppb	2/22/2023 10:18
Standard	CalibStd-50 ppb	2/22/2023 10:22
Standard	CalibStd-100 ppb	2/22/2023 10:25
Standard	CalibStd-200 ppb	2/22/2023 10:29
Standard	CalibStd-1000 ppb	2/22/2023 10:33
Standard	CalibStd-2000 ppb	2/22/2023 10:36
Standard	CalibStd-Blk	2/22/2023 10:52
Standard	CalibStd-1ppb	2/22/2023 10:56
Standard	CalibStd-2 ppb	2/22/2023 10:59
Standard	CalibStd-5 ppb	2/22/2023 11:03
Standard	CalibStd-10 ppb	2/22/2023 11:07
Standard	CalibStd-40 ppb	2/22/2023 11:11
Standard	CalibStd-50 ppb	2/22/2023 11:14
Standard	CalibStd-100 ppb	2/22/2023 11:18
Standard	CalibStd-200 ppb	2/22/2023 11:21
Standard	CalibStd-1000 ppb	2/22/2023 11:25
Standard	CalibStd-2000 ppb	2/22/2023 11:29
QC	ICV/CCV	2/22/2023 11:33
QC	ICB/CCB	2/22/2023 11:37
Unknown	ICSA	2/22/2023 11:40
Unknown	ICSAB	2/22/2023 11:45
Unknown	MP-1374-LB	2/22/2023 11:49
Unknown	MP-1374-LCS	2/22/2023 11:53
Unknown	MP-1374-LCS	2/22/2023 11:57
Unknown	MDL 1	2/22/2023 12:00
Unknown	MDL 2	2/22/2023 12:04
Unknown	MDL 3	2/22/2023 12:08
Unknown	MDL 4	2/22/2023 12:12
Unknown	MDL 5	2/22/2023 12:15
QC	ICV/CCV	2/22/2023 12:19
QC	ICB/CCB	2/22/2023 12:23
Unknown	MDL 6	2/22/2023 12:27
Unknown	MDL 7	2/22/2023 12:31
Unknown	MDL 8	2/22/2023 12:34
QC	ICV/CCV	2/22/2023 12:38
QC	ICB/CCB	2/22/2023 12:42

# Simple Sample Report

Author:

Published: 2/22/2023 1:30:32PM

Notes:

## CalibStd-Blk

Acquire Date: 2/22/2023 9:59:28AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.00006700	Cts/S	0.0001020	150.9
Ag3382		0.0003220	Cts/S	0.00009300	28.84
Al1670		0.0004540	Cts/S	0.00003500	7.618
Al3092	i	*****	Cts/S	-----	-----
As1890		-0.00002600	Cts/S	0.000006000	23.85
As1937		-0.00001500	Cts/S	0.00001000	63.27
Ba2335		0.000002000	Cts/S	0.000009000	413.2
Ba4554		0.005987	Cts/S	0.0004960	8.278
Be2348		-0.00001200	Cts/S	0.00009900	839.3
Be3130		0.0001580	Cts/S	0.00002100	12.95
Ca3179		0.001381	Cts/S	0.0002840	20.55
Ca3933		0.2046	Cts/S	0.03691	18.04
Cd2144		0.000007000	Cts/S	0.000004000	53.29
Cd2288		0.0001950	Cts/S	0.00002100	10.76
Co2286		0.000001000	Cts/S	0.00003800	6,492
Co2388		0.00009700	Cts/S	0.00007700	78.87
Cr2677		0.0002630	Cts/S	0.0001280	48.75
Cr2835		0.001317	Cts/S	0.0001330	10.12
Cu3247		0.002746	Cts/S	0.0001980	7.202
Cu3273		-0.003623	Cts/S	0.00005900	1.636
Fe2382		0.0001610	Cts/S	0.00009200	57.55
Fe2599		0.0003000	Cts/S	0.00004500	15.06
K_7664		0.005188	Cts/S	0.0004630	8.928
K_7698		0.01912	Cts/S	0.0001560	0.8152
Mg2795		0.07548	Cts/S	0.01276	16.90
Mg2802		0.05509	Cts/S	0.008881	16.12
Mg2852		0.008546	Cts/S	0.001394	16.31
Mn2576		0.0001940	Cts/S	0.00005400	28.01
Mn2593		0.0001120	Cts/S	0.00002500	22.71
Na5895		0.03461	Cts/S	0.0003730	1.078
Ni2316		-0.00008400	Cts/S	0.00002100	25.43
Ni3414		-0.0004550	Cts/S	0.0001760	38.75
Pb2169		0.00003200	Cts/S	0.00001200	38.23
Pb2203		-0.00001700	Cts/S	0.00004400	255.0
Pb2833		-0.0001030	Cts/S	0.00007600	74.38
Sb2068		0.00005600	Cts/S	0.000006000	10.06
Sb2175		0.0001240	Cts/S	0.00002100	16.86
Se1960		0.00003800	Cts/S	0.00002900	75.85
Se2039		-0.00001200	Cts/S	0.00002400	207.5
Ti1908		-0.00003700	Cts/S	0.000008000	22.37
Ti3519		-0.00003300	Cts/S	0.0002230	675.9
V_2924		0.00006100	Cts/S	0.0001290	212.4
V_3093	i	*****	Cts/S	-----	-----
Zn2025		0.0006290	Cts/S	0.0002240	35.58
Zn2062		0.0004360	Cts/S	0.0001590	36.49
Sc3613		35,368	Cts/S	80.553	0.22776

**CalibStd-1ppb**

Acquire Date: 2/22/2023 10:03:24AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Be2348		0.001049	Cts/S	0.00002500	2.375
Be3130		0.009612	Cts/S	0.00008700	0.9031
Cd2144		0.0005870	Cts/S	0.000003000	0.5742
Cd2288		0.0005100	Cts/S	0.00003900	7.719
Sc3613		35,423	Cts/S	120.16	0.33923

**CalibStd-2 ppb**

Acquire Date: 2/22/2023 10:07:18AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ba2335		0.0005360	Cts/S	0.000004000	0.6866
Ba4554		0.05419	Cts/S	0.0008960	1.654
Be2348		0.002091	Cts/S	0.0001140	5.468
Be3130		0.01912	Cts/S	0.0001440	0.7511
Cd2144		0.001173	Cts/S	0.00003700	3.183
Cd2288		0.0007870	Cts/S	0.00003600	4.540
Cr2677		0.0008160	Cts/S	0.00004700	5.794
Cr2835		0.001914	Cts/S	0.00007100	3.725
Mn2576		0.003455	Cts/S	0.00006800	1.973
Mn2593		0.002810	Cts/S	0.00007700	2.757
Sc3613		35,082	Cts/S	151.32	0.43133

**CalibStd-5 ppb**

Acquire Date: 2/22/2023 10:11:04AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001453	Cts/S	0.0001450	9.964
Ag3382		0.001153	Cts/S	0.00002200	1.944
Ba2335		0.001371	Cts/S	0.00001100	0.7894
Ba4554		0.1227	Cts/S	0.0001920	0.1564
Be2348		0.005311	Cts/S	0.00001600	0.3056
Be3130		0.04705	Cts/S	0.0001120	0.2381
Cd2144		0.002955	Cts/S	0.00001300	0.4522
Cd2288		0.001691	Cts/S	0.00001200	0.7109
Co2286		0.0006340	Cts/S	0.00003200	5.040
Co2388		0.0009540	Cts/S	0.00006700	7.018
Cr2677		0.001570	Cts/S	0.00003600	2.296
Cr2835		0.002905	Cts/S	0.00006100	2.114
K_7664		0.07481	Cts/S	0.0007270	0.9719
K_7698		0.04944	Cts/S	0.0003450	0.6981
Mn2576		0.008182	Cts/S	0.00006300	0.7694
Mn2593		0.006967	Cts/S	0.0001420	2.032
Ni2316		0.0005050	Cts/S	0.00002600	5.105
Ni3414		-0.00004500	Cts/S	0.0001190	266.5
Pb2169		0.00007200	Cts/S	0.00002300	31.87
Pb2203		0.0001070	Cts/S	0.00001500	14.29
Pb2833		-0.00002100	Cts/S	0.0001260	596.4

**CalibStd-5 ppb**

Acquire Date: 2/22/2023 10:11:04AM Sample Type: Standard  
Method Name: Niosh 7303 Method Revision: 1  
Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Sc3613		35,004	Cts/S	50.020	0.14290

**CalibStd-10 ppb**

Acquire Date: 2/22/2023 10:14:48AM Sample Type: Standard  
Method Name: Niosh 7303 Method Revision: 1  
Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.002955	Cts/S	0.00009500	3.207
Ag3382		0.002020	Cts/S	0.00008700	4.305
As1890		0.00006300	Cts/S	0.00002200	35.50
As1937		0.00007300	Cts/S	0.00003700	50.54
Ba2335		0.002745	Cts/S	0.000006000	0.2031
Ba4554		0.2355	Cts/S	0.0008060	0.3422
Be2348		0.01040	Cts/S	0.00001900	0.1848
Be3130		0.09424	Cts/S	0.0001440	0.1528
Cd2144		0.005904	Cts/S	0.00001200	0.1950
Cd2288		0.003181	Cts/S	0.00002100	0.6588
Co2286		0.001320	Cts/S	0.000006000	0.4313
Co2388		0.001768	Cts/S	0.00001800	1.012
Cr2677		0.002857	Cts/S	0.00003700	1.298
Cr2835		0.004478	Cts/S	0.0001400	3.126
Cu3247		0.007040	Cts/S	0.00003400	0.4776
Cu3273		-0.0009440	Cts/S	0.0001700	17.98
K_7664		0.1484	Cts/S	0.0006450	0.4348
K_7698		0.08041	Cts/S	0.0003990	0.4965
Mn2576		0.01639	Cts/S	0.0001230	0.7528
Mn2593		0.01400	Cts/S	0.00007500	0.5366
Ni2316		0.001025	Cts/S	0.00002000	1.909
Ni3414		0.0002290	Cts/S	0.00005600	24.54
Pb2169		0.0001460	Cts/S	0.00004200	28.63
Pb2203		0.0003380	Cts/S	0.00007500	22.22
Pb2833		-0.00004200	Cts/S	0.00003400	80.35
Sb2068		0.0002180	Cts/S	0.000007000	3.227
Sb2175		0.0002740	Cts/S	0.00004000	14.44
Se1960		0.0001410	Cts/S	0.000006000	4.549
Se2039		0.00003300	Cts/S	0.00001200	37.45
Tl1908		0.0001430	Cts/S	0.00001700	11.99
Tl3519		0.0003520	Cts/S	0.0001730	49.14
V_2924		0.002761	Cts/S	0.00008900	3.211
V_3093	i	*****	Cts/S	-----	-----
Sc3613		35,506	Cts/S	118.95	0.33502

**CalibStd-40 ppb**

Acquire Date: 2/22/2023 10:18:33AM Sample Type: Standard  
Method Name: Niosh 7303 Method Revision: 1  
Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.01235	Cts/S	0.0001600	1.296
Ag3382		0.007512	Cts/S	0.00008000	1.059



**CalibStd-40 ppb**

Acquire Date: 2/22/2023 10:18:33AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
As1890		0.0003170	Cts/S	0.000007000	2.215
As1937		0.0004620	Cts/S	0.00002100	4.440
Ba2335		0.01107	Cts/S	0.00009700	0.8757
Ba4554		0.9190	Cts/S	0.002014	0.2191
Be2348		0.04212	Cts/S	0.0002760	0.6543
Be3130		0.3809	Cts/S	0.001384	0.3635
Cd2144		0.02354	Cts/S	0.0001700	0.7238
Cd2288		0.01211	Cts/S	0.00007500	0.6158
Co2286		0.005423	Cts/S	0.00001400	0.2650
Co2388		0.006797	Cts/S	0.00009300	1.361
Cr2677		0.01095	Cts/S	0.00007200	0.6543
Cr2835		0.01420	Cts/S	0.0001110	0.7792
Cu3247		0.02070	Cts/S	0.0002070	0.9987
Cu3273		0.006819	Cts/S	0.00009800	1.444
K_7664		0.5892	Cts/S	0.003160	0.5363
K_7698		0.2659	Cts/S	0.0005960	0.2243
Mn2576		0.06509	Cts/S	0.0003040	0.4669
Mn2593		0.05590	Cts/S	0.0001300	0.2318
Ni2316		0.004204	Cts/S	0.00005000	1.185
Ni3414		0.002379	Cts/S	0.00003600	1.493
Pb2169		0.0003720	Cts/S	0.000005000	1.437
Pb2203		0.001391	Cts/S	0.00002400	1.707
Pb2833		0.0004230	Cts/S	0.0002300	54.32
Sb2068		0.0008630	Cts/S	0.00001200	1.371
Sb2175		0.0008920	Cts/S	0.00001500	1.690
Se1960		0.0004840	Cts/S	0.00002400	4.913
Se2039		0.0002390	Cts/S	0.00001300	5.390
Tl1908		0.0008090	Cts/S	0.000004000	0.4819
Tl3519		0.0006970	Cts/S	0.00005600	8.103
V_2924		0.01118	Cts/S	0.0001900	1.704
V_3093	i	*****	Cts/S	-----	-----
Zn2025		0.01183	Cts/S	0.00005000	0.4198
Zn2062		0.007362	Cts/S	0.00001300	0.1698
Sc3613		35,036	Cts/S	108.52	0.30973

**CalibStd-50 ppb**

Acquire Date: 2/22/2023 10:22:14AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.01519	Cts/S	0.0002070	1.361
Ag3382		0.009061	Cts/S	0.0001700	1.880
Al1670		0.001683	Cts/S	0.00002500	1.498
Al3092	i	*****	Cts/S	-----	-----
As1890		0.0004020	Cts/S	0.00002900	7.231
As1937		0.0005930	Cts/S	0.00002600	4.425
Ba2335		0.01365	Cts/S	0.0001440	1.058
Ba4554		1.133	Cts/S	0.01089	0.9609
Be2348		0.05200	Cts/S	0.0005970	1.148
Be3130		0.4653	Cts/S	0.006162	1.324
Ca3179		0.02051	Cts/S	0.0003320	1.617

**CalibStd-50 ppb**

Acquire Date: 2/22/2023 10:22:14AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ca3933		3.209	Cts/S	0.03153	0.9827
Cd2144		0.02896	Cts/S	0.0003240	1.120
Cd2288		0.01488	Cts/S	0.0001520	1.018
Co2286		0.006635	Cts/S	0.00005800	0.8711
Co2388		0.008332	Cts/S	0.0001340	1.613
Cr2677		0.01339	Cts/S	0.00002500	0.1901
Cr2835		0.01714	Cts/S	0.00006800	0.3995
Cu3247		0.02493	Cts/S	0.0003100	1.242
Cu3273		0.009032	Cts/S	0.0001400	1.548
Fe2382		0.01293	Cts/S	0.0001940	1.498
Fe2599		0.01979	Cts/S	0.0003330	1.682
K_7664		0.7228	Cts/S	0.009470	1.310
K_7698		0.3214	Cts/S	0.004238	1.319
Mg2795		0.3427	Cts/S	0.003061	0.8932
Mg2802		0.2542	Cts/S	0.003544	1.394
Mg2852		0.03948	Cts/S	0.0006060	1.535
Mn2576		0.07949	Cts/S	0.001086	1.366
Mn2593		0.06838	Cts/S	0.0008420	1.231
Na5895		0.2210	Cts/S	0.002295	1.039
Ni2316		0.005168	Cts/S	0.00003300	0.6319
Ni3414		0.002975	Cts/S	0.00007800	2.623
Pb2169		0.0004760	Cts/S	0.00002400	4.940
Pb2203		0.001704	Cts/S	0.000003000	0.1572
Pb2833		0.0005190	Cts/S	0.00007700	14.85
Sb2068		0.001060	Cts/S	0.00003200	3.030
Sb2175		0.001130	Cts/S	0.000009000	0.7654
Se1960		0.0005900	Cts/S	0.00002200	3.728
Se2039		0.0003220	Cts/S	0.000008000	2.620
Tl1908		0.001003	Cts/S	0.00002800	2.818
Tl3519		0.0006620	Cts/S	0.0001580	23.90
V_2924		0.01366	Cts/S	0.0002570	1.885
V_3093	i	*****	Cts/S	----	----
Zn2025		0.01437	Cts/S	0.0002100	1.462
Zn2062		0.009030	Cts/S	0.00006900	0.7689
Sc3613		35,003	Cts/S	426.20	1.2176

**CalibStd-100 ppb**

Acquire Date: 2/22/2023 10:25:52AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.01528	Cts/S	0.00005400	0.3524
Ag3382		0.009203	Cts/S	0.00007100	0.7691
Al1670		0.001672	Cts/S	0.000009000	0.5652
Al3092	i	*****	Cts/S	----	----
As1890		0.0004100	Cts/S	0.000004000	1.038
As1937		0.0005850	Cts/S	0.00002300	4.004
Ba2335		0.01356	Cts/S	0.00008300	0.6152
Ba4554		1.141	Cts/S	0.0006750	0.05916
Be2348		0.05227	Cts/S	0.0004200	0.8029
Be3130		0.4639	Cts/S	0.002800	0.6035

**CalibStd-100 ppb**

Acquire Date: 2/22/2023 10:25:52AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ca3179		0.01931	Cts/S	0.00008200	0.4260
Ca3933		3.063	Cts/S	0.009514	0.3106
Cd2144		0.02886	Cts/S	0.0001200	0.4154
Cd2288		0.01478	Cts/S	0.00007100	0.4835
Co2286		0.006635	Cts/S	0.00006700	1.011
Co2388		0.008444	Cts/S	0.00006400	0.7544
Cr2677		0.01336	Cts/S	0.00006700	0.5004
Cr2835		0.01710	Cts/S	0.0001050	0.6161
Cu3247		0.02500	Cts/S	0.00004500	0.1800
Cu3273		0.008970	Cts/S	0.0001360	1.515
Fe2382		0.01138	Cts/S	0.0001540	1.351
Fe2599		0.01731	Cts/S	0.00009500	0.5499
K_7664		0.7180	Cts/S	0.002397	0.3339
K_7698		0.3183	Cts/S	0.001475	0.4636
Mg2795		0.3437	Cts/S	0.001567	0.4558
Mg2802		0.2528	Cts/S	0.001401	0.5541
Mg2852		0.03967	Cts/S	0.0002590	0.6538
Mn2576		0.07900	Cts/S	0.0002720	0.3444
Mn2593		0.06816	Cts/S	0.0003340	0.4899
Na5895		0.2170	Cts/S	0.001566	0.7219
Ni2316		0.005145	Cts/S	0.00002500	0.4768
Ni3414		0.002674	Cts/S	0.000006000	0.2418
Pb2169		0.0004610	Cts/S	0.00001900	4.129
Pb2203		0.001707	Cts/S	0.00002000	1.147
Pb2833		0.0004690	Cts/S	0.0001530	32.66
Sb2068		0.001062	Cts/S	0.00004800	4.533
Sb2175		0.001112	Cts/S	0.00001300	1.152
Se1960		0.0005920	Cts/S	0.00001000	1.687
Se2039		0.0003200	Cts/S	0.00001000	3.223
Tl1908		0.0009920	Cts/S	0.000004000	0.4402
Tl3519		0.0003990	Cts/S	0.0001240	30.99
V_2924		0.01364	Cts/S	0.0001680	1.233
V_3093	i	*****	Cts/S	-----	-----
Zn2025		0.01407	Cts/S	0.00007500	0.5360
Zn2062		0.008858	Cts/S	0.00005200	0.5898
Sc3613		35,230	Cts/S	195.27	0.55428

**CalibStd-200 ppb**

Acquire Date: 2/22/2023 10:29:30AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.06167	Cts/S	0.0004750	0.7696
Ag3382		0.03571	Cts/S	0.0001590	0.4454
Al1670		0.005673	Cts/S	0.00008400	1.483
Al3092	i	*****	Cts/S	-----	-----
As1890		0.001679	Cts/S	0.000009000	0.5653
As1937		0.002467	Cts/S	0.00001200	0.4904
Ba2335		0.05475	Cts/S	0.0004430	0.8094
Ba4554		4.564	Cts/S	0.01649	0.3613
Be2348		0.2105	Cts/S	0.0007980	0.3793

**CalibStd-200 ppb**

Acquire Date: 2/22/2023 10:29:30AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Be3130		1.867	Cts/S	0.01147	0.6146
Ca3179		0.05633	Cts/S	0.0006230	1.106
Ca3933		8.955	Cts/S	0.05115	0.5712
Cd2144		0.1157	Cts/S	0.0009410	0.8134
Cd2288		0.05873	Cts/S	0.0004080	0.6939
Co2286		0.02675	Cts/S	0.0002080	0.7758
Co2388		0.03411	Cts/S	0.0002350	0.6904
Cr2677		0.05301	Cts/S	0.0002050	0.3876
Cr2835		0.06476	Cts/S	0.0002080	0.3217
Cu3247		0.09195	Cts/S	0.0003100	0.3370
Cu3273		0.04738	Cts/S	0.0004810	1.016
Fe2382		0.03491	Cts/S	0.0001240	0.3544
Fe2599		0.05367	Cts/S	0.0001690	0.3158
K_7664		2.957	Cts/S	0.01447	0.4894
K_7698		1.257	Cts/S	0.006177	0.4913
Mg2795		1.358	Cts/S	0.007140	0.5257
Mg2802		0.9971	Cts/S	0.006582	0.6601
Mg2852		0.1573	Cts/S	0.0008500	0.5402
Mn2576		0.3158	Cts/S	0.002256	0.7143
Mn2593		0.2730	Cts/S	0.001165	0.4265
Na5895		0.7581	Cts/S	0.003443	0.4541
Ni2316		0.02092	Cts/S	0.0001820	0.8684
Ni3414		0.01274	Cts/S	0.0002120	1.667
Pb2169		0.001755	Cts/S	0.00003400	1.950
Pb2203		0.006855	Cts/S	0.00002800	0.4073
Pb2833		0.002359	Cts/S	0.0001610	6.824
Sb2068		0.004268	Cts/S	0.00003500	0.8159
Sb2175		0.004272	Cts/S	0.00003500	0.8209
Se1960		0.002225	Cts/S	0.00001800	0.8125
Se2039		0.001307	Cts/S	0.00001600	1.207
Tl1908		0.004306	Cts/S	0.00005600	1.296
Tl3519		0.002320	Cts/S	0.0001140	4.918
V_2924		0.05578	Cts/S	0.0001660	0.2971
V_3093	i	*****	Cts/S	-----	-----
Zn2025		0.05571	Cts/S	0.0005270	0.9453
Zn2062		0.03480	Cts/S	0.0003140	0.9022
Sc3613		35,603	Cts/S	200.72	0.56375

**CalibStd-1000 ppb**

Acquire Date: 2/22/2023 10:33:05AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.3034	Cts/S	0.0009540	0.3142
Ag3382		0.1753	Cts/S	0.0001960	0.1118
Al1670		0.02613	Cts/S	0.00001600	0.06173
Al3092	i	*****	Cts/S	-----	-----
As1890		0.008391	Cts/S	0.00003000	0.3572
As1937		0.01240	Cts/S	0.00003200	0.2571
Ba2335		0.2677	Cts/S	0.0002220	0.08292
Ba4554		22.01	Cts/S	0.1922	0.8730

**CalibStd-1000 ppb**

Acquire Date: 2/22/2023 10:33:05AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Be2348		1.052	Cts/S	0.002230	0.2120
Be3130		9.293	Cts/S	0.01027	0.1105
Ca3179		0.2766	Cts/S	0.0002540	0.09193
Ca3933		42.98	Cts/S	0.2825	0.6571
Cd2144		0.5713	Cts/S	0.001058	0.1852
Cd2288		0.2894	Cts/S	0.0006170	0.2132
Co2286		0.1311	Cts/S	0.0002670	0.2038
Co2388		0.1677	Cts/S	0.0003800	0.2267
Cr2677		0.2597	Cts/S	0.0002800	0.1078
Cr2835		0.3155	Cts/S	0.0006640	0.2104
Cu3247		0.4354	Cts/S	0.001158	0.2658
Cu3273		0.2440	Cts/S	0.0004010	0.1645
Fe2382		0.1748	Cts/S	0.00004900	0.02813
Fe2599		0.2660	Cts/S	0.0002360	0.08890
Mg2795		6.642	Cts/S	0.006792	0.1023
Mg2802		4.874	Cts/S	0.004357	0.08939
Mg2852		0.7723	Cts/S	0.001241	0.1607
Mn2576		1.528	Cts/S	0.001707	0.1118
Mn2593		1.316	Cts/S	0.001264	0.09601
Na5895		4.022	Cts/S	0.009764	0.2428
Ni2316		0.1031	Cts/S	0.0002250	0.2178
Ni3414		0.06474	Cts/S	0.0001380	0.2136
Pb2169		0.008428	Cts/S	0.00003300	0.3893
Pb2203		0.03365	Cts/S	0.0001180	0.3496
Pb2833		0.01189	Cts/S	0.0001650	1.389
Sb2068		0.02126	Cts/S	0.00002500	0.1171
Sb2175		0.02090	Cts/S	0.00006300	0.3029
Se1960		0.01089	Cts/S	0.00005100	0.4689
Se2039		0.006655	Cts/S	0.00002400	0.3638
Tl1908		0.02132	Cts/S	0.00003400	0.1572
Tl3519		0.01101	Cts/S	0.0001860	1.690
V_2924		0.2768	Cts/S	0.0003920	0.1417
V_3093	i	*****	Cts/S	-----	-----
Zn2025		0.2748	Cts/S	0.0006850	0.2492
Zn2062		0.1719	Cts/S	0.00001500	0.008664
Sc3613		35,084	Cts/S	31.508	0.089807

**CalibStd-2000 ppb**

Acquire Date: 2/22/2023 10:36:47AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.5912	Cts/S	0.0007590	0.1283
Ag3382		0.3471	Cts/S	0.001298	0.3740
Al1670		0.04932	Cts/S	0.0001430	0.2909
Al3092	i	*****	Cts/S	-----	-----
As1890		0.01663	Cts/S	0.00003900	0.2359
As1937		0.02464	Cts/S	0.00002200	0.08990
Ba2335		0.5261	Cts/S	0.001416	0.2693
Ba4554		42.22	Cts/S	0.1755	0.4157
Be2348		2.095	Cts/S	0.004129	0.1971

**CalibStd-2000 ppb**

Acquire Date: 2/22/2023 10:36:47AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Be3130		18.32	Cts/S	0.08052	0.4395
Ca3179		0.5441	Cts/S	0.001304	0.2396
Ca3933		79.11	Cts/S	0.2073	0.2620
Cd2144		1.124	Cts/S	0.002498	0.2222
Cd2288		0.5707	Cts/S	0.001755	0.3074
Co2286		0.2562	Cts/S	0.0005970	0.2329
Co2388		0.3278	Cts/S	0.001723	0.5256
Cr2677		0.5108	Cts/S	0.001698	0.3325
Cr2835		0.6148	Cts/S	0.001452	0.2361
Cu3247		0.8534	Cts/S	0.0009880	0.1157
Cu3273		0.4872	Cts/S	0.001259	0.2585
Fe2382		0.3395	Cts/S	0.001425	0.4197
Fe2599		0.5159	Cts/S	0.001403	0.2720
Mg2795		12.65	Cts/S	0.09029	0.7139
Mg2802		9.489	Cts/S	0.03366	0.3547
Mg2852		1.520	Cts/S	0.003502	0.2304
Mn2576		3.023	Cts/S	0.007710	0.2550
Mn2593		2.587	Cts/S	0.005026	0.1943
Na5895		8.305	Cts/S	0.03256	0.3921
Ni2316		0.2014	Cts/S	0.0006520	0.3238
Ni3414		0.1286	Cts/S	0.0005200	0.4044
Pb2169		0.01646	Cts/S	0.00005900	0.3611
Pb2203		0.06587	Cts/S	0.0002300	0.3493
Pb2833		0.02325	Cts/S	0.00002900	0.1236
Sb2068		0.04212	Cts/S	0.0002390	0.5670
Sb2175		0.04133	Cts/S	0.0001850	0.4477
Se1960		0.02145	Cts/S	0.0001190	0.5540
Se2039		0.01324	Cts/S	0.00006700	0.5073
Tl1908		0.04147	Cts/S	0.0002080	0.5011
Tl3519		0.02159	Cts/S	0.0003360	1.555
V_2924		0.5451	Cts/S	0.001474	0.2704
V_3093	i	*****	Cts/S	----	----
Zn2025		0.5443	Cts/S	0.001143	0.2100
Zn2062		0.3379	Cts/S	0.0007860	0.2327
Sc3613		35,023	Cts/S	67.399	0.19244

**CalibStd-Blk**

Acquire Date: 2/22/2023 10:52:15AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0002180	Cts/S	0.00003900	18.11
Ag3382		0.0002500	Cts/S	0.0001150	46.10
Al1670		0.0003070	Cts/S	0.000008000	2.644
Al3092	i	*****	Cts/S	----	----
As1890		-0.00001700	Cts/S	0.00001400	82.59
As1937		-0.00001600	Cts/S	0.00001300	79.90
Ba2335		-0.00002500	Cts/S	0.00001000	38.49
Ba4554		0.01163	Cts/S	0.0002670	2.292
Be2348		0.00009000	Cts/S	0.00004100	45.48
Be3130		0.0008600	Cts/S	0.00003100	3.595

**CalibStd-Blk**

Acquire Date: 2/22/2023 10:52:15AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ca3179		0.001030	Cts/S	0.0001280	12.47
Ca3933		0.1443	Cts/S	0.001043	0.7227
Cd2144		0.00001000	Cts/S	0.00001500	157.5
Cd2288		0.0002360	Cts/S	0.00002800	11.66
Co2286		-0.00001800	Cts/S	0.00001400	78.83
Co2388		0.0001270	Cts/S	0.00007900	62.78
Cr2677		0.0002760	Cts/S	0.00009400	34.22
Cr2835		0.001240	Cts/S	0.0001750	14.08
Cu3247		0.0005570	Cts/S	0.00004100	7.279
Cu3273		-0.003409	Cts/S	0.0001380	4.041
Fe2382		0.0001300	Cts/S	0.00003600	27.58
Fe2599		0.0002680	Cts/S	0.00006400	24.01
K_7664		0.002462	Cts/S	0.0006560	26.65
K_7698		0.01907	Cts/S	0.0008860	4.647
Mg2795		0.003238	Cts/S	0.0002800	8.652
Mg2802		0.002457	Cts/S	0.0002410	9.812
Mg2852		0.0002080	Cts/S	0.0001000	48.07
Mn2576		0.0001630	Cts/S	0.00006000	36.62
Mn2593		0.00002600	Cts/S	0.00005400	203.4
Na5895		0.01591	Cts/S	0.001197	7.522
Ni2316		-0.00006400	Cts/S	0.00002200	35.08
Ni3414		-0.0003900	Cts/S	0.0001590	40.77
Pb2169		0.00004700	Cts/S	0.00002500	52.68
Pb2203		0.000003000	Cts/S	0.00005800	1,762
Pb2833		-0.0001210	Cts/S	0.000007000	5.427
Sb2068		0.00002300	Cts/S	0.00001500	65.81
Sb2175		0.0001030	Cts/S	0.00001400	13.96
Se1960		0.00005200	Cts/S	0.00002000	38.29
Se2039		-0.00003200	Cts/S	0.00002500	77.62
Tl1908		-0.00004700	Cts/S	0.000009000	19.31
Tl3519		0.00007100	Cts/S	0.0001680	236.8
V_2924		-0.00004100	Cts/S	0.00007800	189.2
V_3093	i	*****	Cts/S	-----	-----
Zn2025		0.00007400	Cts/S	0.00001400	18.32
Zn2062		0.00006500	Cts/S	0.00002400	36.77
Sc3613		35,559	Cts/S	379.18	1.0663

**CalibStd-1ppb**

Acquire Date: 2/22/2023 10:56:05AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Be2348		0.001068	Cts/S	0.00006700	6.304
Be3130		0.009984	Cts/S	0.00008000	0.7998
Cd2144		0.0006000	Cts/S	0.00002700	4.531
Cd2288		0.0005160	Cts/S	0.00001000	1.967
Sc3613		35,739	Cts/S	78.855	0.22064

**CalibStd-2 ppb**

Acquire Date: 2/22/2023 10:59:51AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ba2335		0.0005350	Cts/S	0.00002000	3.819
Ba4554		0.05660	Cts/S	0.0002960	0.5226
Be2348		0.002127	Cts/S	0.00005100	2.395
Be3130		0.01924	Cts/S	0.00008900	0.4633
Cd2144		0.001183	Cts/S	0.00001400	1.168
Cd2288		0.0007890	Cts/S	0.00004200	5.351
Cr2677		0.0007610	Cts/S	0.0001320	17.30
Cr2835		0.001889	Cts/S	0.0001070	5.677
Mn2576		0.003455	Cts/S	0.00009000	2.593
Mn2593		0.002792	Cts/S	0.0001240	4.447
Sc3613		35,854	Cts/S	243.31	0.67861

**CalibStd-5 ppb**

Acquire Date: 2/22/2023 11:03:36AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001444	Cts/S	0.0001000	6.940
Ag3382		0.001159	Cts/S	0.0001310	11.34
Ba2335		0.001385	Cts/S	0.00001500	1.108
Ba4554		0.1218	Cts/S	0.0009660	0.7932
Be2348		0.005101	Cts/S	0.00003800	0.7355
Be3130		0.04726	Cts/S	0.0001170	0.2479
Cd2144		0.002963	Cts/S	0.00002100	0.7256
Cd2288		0.001678	Cts/S	0.00002400	1.452
Co2286		0.0006420	Cts/S	0.00003400	5.346
Co2388		0.0009560	Cts/S	0.0001310	13.71
Cr2677		0.001575	Cts/S	0.00007700	4.881
Cr2835		0.002752	Cts/S	0.0001220	4.428
K_7664		0.07349	Cts/S	0.0008900	1.211
K_7698		0.04954	Cts/S	0.0002890	0.5842
Mn2576		0.008286	Cts/S	0.0001330	1.601
Mn2593		0.006978	Cts/S	0.00009700	1.386
Ni2316		0.0004620	Cts/S	0.00001300	2.806
Ni3414		-0.0001580	Cts/S	0.00003600	22.77
Pb2169		0.00008300	Cts/S	0.00001100	12.65
Pb2203		0.0001650	Cts/S	0.00001300	7.592
Pb2833		-0.00001100	Cts/S	0.00008600	748.5
Sc3613		35,451	Cts/S	91.217	0.25730

**CalibStd-10 ppb**

Acquire Date: 2/22/2023 11:07:21AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.003047	Cts/S	0.00002500	0.8300
Ag3382		0.002136	Cts/S	0.0001430	6.704
As1890		0.00006100	Cts/S	0.000009000	15.04
As1937		0.00008700	Cts/S	0.00001400	15.77



**CalibStd-10 ppb**

Acquire Date: 2/22/2023 11:07:21AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ba2335		0.002718	Cts/S	0.00002400	0.8649
Ba4554		0.2321	Cts/S	0.0008040	0.3465
Be2348		0.01032	Cts/S	0.00004700	0.4599
Be3130		0.09349	Cts/S	0.0005660	0.6052
Cd2144		0.005815	Cts/S	0.00002200	0.3720
Cd2288		0.003159	Cts/S	0.00002000	0.6381
Co2286		0.001304	Cts/S	0.00002900	2.197
Co2388		0.001822	Cts/S	0.00006600	3.606
Cr2677		0.002866	Cts/S	0.00008800	3.083
Cr2835		0.004324	Cts/S	0.00007400	1.710
Cu3247		0.004825	Cts/S	0.00007800	1.621
Cu3273		-0.0009020	Cts/S	0.0001130	12.54
K_7664		0.1461	Cts/S	0.0009090	0.6221
K_7698		0.07866	Cts/S	0.0008600	1.093
Mn2576		0.01615	Cts/S	0.00006400	0.3953
Mn2593		0.01375	Cts/S	0.00007300	0.5301
Ni2316		0.001026	Cts/S	0.00002600	2.559
Ni3414		0.0001380	Cts/S	0.0001240	90.03
Pb2169		0.0001210	Cts/S	0.00001700	14.27
Pb2203		0.0003180	Cts/S	0.00002600	8.301
Pb2833		-0.00004800	Cts/S	0.00007100	147.1
Sb2068		0.0002280	Cts/S	0.00002200	9.540
Sb2175		0.0002840	Cts/S	0.00002200	7.738
Se1960		0.0001400	Cts/S	0.00001700	11.94
Se2039		0.00007300	Cts/S	0.00001800	24.98
Ti1908		0.0001850	Cts/S	0.00001500	8.239
Ti3519		0.0003390	Cts/S	0.00006600	19.55
V_2924		0.002808	Cts/S	0.0001340	4.757
V_3093	i	*****	Cts/S	----	----
Sc3613		35,778	Cts/S	128.81	0.36004

**CalibStd-40 ppb**

Acquire Date: 2/22/2023 11:11:06AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.01219	Cts/S	0.0001710	1.404
Ag3382		0.007357	Cts/S	0.0001660	2.255
As1890		0.0003100	Cts/S	0.00001600	5.210
As1937		0.0004610	Cts/S	0.00002500	5.457
Ba2335		0.01090	Cts/S	0.00006300	0.5816
Ba4554		0.8871	Cts/S	0.002638	0.2974
Be2348		0.04142	Cts/S	0.0001920	0.4647
Be3130		0.3740	Cts/S	0.001197	0.3200
Cd2144		0.02338	Cts/S	0.0001260	0.5372
Cd2288		0.01191	Cts/S	0.00006400	0.5343
Co2286		0.005316	Cts/S	0.00005100	0.9534
Co2388		0.006760	Cts/S	0.00001900	0.2819
Cr2677		0.01079	Cts/S	0.00008200	0.7629
Cr2835		0.01396	Cts/S	0.0001020	0.7338
Cu3247		0.01781	Cts/S	0.00006000	0.3393

**CalibStd-40 ppb**

Acquire Date: 2/22/2023 11:11:06AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Cu3273		0.006607	Cts/S	0.0001220	1.850
K_7664		0.5817	Cts/S	0.003272	0.5625
K_7698		0.2623	Cts/S	0.0003950	0.1508
Mn2576		0.06441	Cts/S	0.0003880	0.6032
Mn2593		0.05485	Cts/S	0.0001310	0.2395
Ni2316		0.004133	Cts/S	0.00004100	0.9981
Ni3414		0.002192	Cts/S	0.0001030	4.710
Pb2169		0.0003890	Cts/S	0.00001200	2.975
Pb2203		0.001350	Cts/S	0.00003600	2.653
Pb2833		0.0004680	Cts/S	0.00009700	20.74
Sb2068		0.0008420	Cts/S	0.00002400	2.797
Sb2175		0.0008960	Cts/S	0.00001600	1.750
Se1960		0.0004700	Cts/S	0.00002500	5.355
Se2039		0.0002680	Cts/S	0.00001200	4.625
Ti1908		0.0008560	Cts/S	0.00002200	2.512
Ti3519		0.0007090	Cts/S	0.00006300	8.908
V_2924		0.01111	Cts/S	0.00009200	0.8319
V_3093	i	*****	Cts/S	----	----
Zn2025		0.01165	Cts/S	0.00005700	0.4929
Zn2062		0.007261	Cts/S	0.00006700	0.9168
Sc3613		35,470	Cts/S	110.19	0.31066

**CalibStd-50 ppb**

Acquire Date: 2/22/2023 11:14:47AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.01480	Cts/S	0.0001210	0.8143
Ag3382		0.008945	Cts/S	0.0001080	1.208
Al1670		0.001644	Cts/S	0.00001400	0.8656
Al3092	i	*****	Cts/S	----	----
As1890		0.0003880	Cts/S	0.000009000	2.226
As1937		0.0005760	Cts/S	0.00001700	3.002
Ba2335		0.01324	Cts/S	0.00003800	0.2842
Ba4554		1.086	Cts/S	0.004570	0.4207
Be2348		0.05083	Cts/S	0.0001430	0.2818
Be3130		0.4559	Cts/S	0.0009290	0.2037
Ca3179		0.01979	Cts/S	0.0001280	0.6488
Ca3933		3.172	Cts/S	0.006960	0.2194
Cd2144		0.02827	Cts/S	0.00005900	0.2085
Cd2288		0.01446	Cts/S	0.00004800	0.3326
Co2286		0.006490	Cts/S	0.00001000	0.1558
Co2388		0.008241	Cts/S	0.00007900	0.9599
Cr2677		0.01297	Cts/S	0.00001200	0.09013
Cr2835		0.01689	Cts/S	0.00007100	0.4216
Cu3247		0.02188	Cts/S	0.00002800	0.1283
Cu3273		0.008636	Cts/S	0.0003130	3.625
Fe2382		0.01285	Cts/S	0.00005800	0.4522
Fe2599		0.01949	Cts/S	0.00006500	0.3314
K_7664		0.7098	Cts/S	0.001781	0.2510
K_7698		0.3149	Cts/S	0.00007700	0.02431

**CalibStd-50 ppb**

Acquire Date: 2/22/2023 11:14:47AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Mg2795		0.3381	Cts/S	0.0007900	0.2337
Mg2802		0.2487	Cts/S	0.0008000	0.3217
Mg2852		0.03908	Cts/S	0.0003870	0.9902
Mn2576		0.07821	Cts/S	0.0003070	0.3923
Mn2593		0.06676	Cts/S	0.0003370	0.5055
Na5895		0.2109	Cts/S	0.0005150	0.2440
Ni2316		0.005066	Cts/S	0.00003200	0.6266
Ni3414		0.002540	Cts/S	0.00008800	3.472
Pb2169		0.0004510	Cts/S	0.00004300	9.559
Pb2203		0.001688	Cts/S	0.00002600	1.554
Pb2833		0.0005540	Cts/S	0.0001500	27.10
Sb2068		0.001012	Cts/S	0.00002300	2.286
Sb2175		0.001064	Cts/S	0.00002100	1.994
Se1960		0.0005750	Cts/S	0.00002300	4.004
Se2039		0.0003180	Cts/S	0.00001700	5.358
Ti1908		0.001039	Cts/S	0.00001700	1.596
Ti3519		0.0007790	Cts/S	0.0001480	19.05
V_2924		0.01351	Cts/S	0.00003200	0.2362
V_3093	i	*****	Cts/S	----	----
Zn2025		0.01399	Cts/S	0.00003900	0.2768
Zn2062		0.008724	Cts/S	0.00001700	0.1894
Sc3613		35,719	Cts/S	76.277	0.21355

**CalibStd-100 ppb**

Acquire Date: 2/22/2023 11:18:25AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.03008	Cts/S	0.0001270	0.4237
Ag3382		0.01770	Cts/S	0.00007500	0.4262
Al1670		0.002970	Cts/S	0.00002000	0.6769
Al3092	i	*****	Cts/S	----	----
As1890		0.0007990	Cts/S	0.00001900	2.440
As1937		0.001201	Cts/S	0.00001300	1.085
Ba2335		0.02696	Cts/S	0.00007300	0.2709
Ba4554		2.190	Cts/S	0.004812	0.2197
Be2348		0.1031	Cts/S	0.0002270	0.2203
Be3130		0.9259	Cts/S	0.001997	0.2157
Ca3179		0.03284	Cts/S	0.0001920	0.5839
Ca3933		5.192	Cts/S	0.006430	0.1238
Cd2144		0.05747	Cts/S	0.0001090	0.1893
Cd2288		0.02914	Cts/S	0.0001220	0.4174
Co2286		0.01313	Cts/S	0.00007000	0.5294
Co2388		0.01691	Cts/S	0.0001950	1.155
Cr2677		0.02646	Cts/S	0.00007200	0.2722
Cr2835		0.03265	Cts/S	0.0002330	0.7146
Cu3247		0.04392	Cts/S	0.0001460	0.3320
Cu3273		0.02142	Cts/S	0.00008200	0.3839
Fe2382		0.01758	Cts/S	0.0001910	1.085
Fe2599		0.02677	Cts/S	0.00006100	0.2273
K_7664		1.448	Cts/S	0.001383	0.09551

**CalibStd-100 ppb**

Acquire Date: 2/22/2023 11:18:25AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
K_7698		0.6233	Cts/S	0.0006560	0.1052
Mg2795		0.6757	Cts/S	0.001468	0.2173
Mg2802		0.4977	Cts/S	0.001327	0.2667
Mg2852		0.07807	Cts/S	0.0002540	0.3258
Mn2576		0.1583	Cts/S	0.0004110	0.2593
Mn2593		0.1351	Cts/S	0.0001300	0.09641
Na5895		0.3812	Cts/S	0.0008540	0.2241
Ni2316		0.01030	Cts/S	0.00007200	0.7027
Ni3414		0.006073	Cts/S	0.0001280	2.108
Pb2169		0.0008740	Cts/S	0.00003500	3.986
Pb2203		0.003440	Cts/S	0.00005300	1.550
Pb2833		0.001192	Cts/S	0.00007000	5.891
Sb2068		0.002132	Cts/S	0.00001700	0.8189
Sb2175		0.002142	Cts/S	0.00003800	1.779
Se1960		0.001112	Cts/S	0.00001600	1.426
Se2039		0.0006270	Cts/S	0.00001200	1.985
Ti1908		0.002189	Cts/S	0.00001000	0.4768
Ti3519		0.001527	Cts/S	0.0001480	9.697
V_2924		0.02758	Cts/S	0.0001520	0.5502
V_3093	i	*****	Cts/S	-----	-----
Zn2025		0.02862	Cts/S	0.00004300	0.1510
Zn2062		0.01783	Cts/S	0.00005400	0.3033
Sc3613		35,707	Cts/S	157.65	0.44151

**CalibStd-200 ppb**

Acquire Date: 2/22/2023 11:21:53AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.06065	Cts/S	0.0003320	0.5474
Ag3382		0.03555	Cts/S	0.0001660	0.4673
Al1670		0.005641	Cts/S	0.00005300	0.9364
Al3092	i	*****	Cts/S	-----	-----
As1890		0.001644	Cts/S	0.00001600	0.9434
As1937		0.002431	Cts/S	0.00001300	0.5312
Ba2335		0.05441	Cts/S	0.0003500	0.6438
Ba4554		4.399	Cts/S	0.007109	0.1616
Be2348		0.2076	Cts/S	0.0003680	0.1773
Be3130		1.870	Cts/S	0.003616	0.1934
Ca3179		0.05676	Cts/S	0.0001810	0.3187
Ca3933		8.875	Cts/S	0.04340	0.4890
Cd2144		0.1152	Cts/S	0.0004130	0.3582
Cd2288		0.05838	Cts/S	0.0003640	0.6239
Co2286		0.02655	Cts/S	0.0001530	0.5762
Co2388		0.03384	Cts/S	0.0001460	0.4320
Cr2677		0.05274	Cts/S	0.0001010	0.1922
Cr2835		0.06431	Cts/S	0.0001720	0.2677
Cu3247		0.08837	Cts/S	0.0001870	0.2117
Cu3273		0.04731	Cts/S	0.0004620	0.9764
Fe2382		0.03467	Cts/S	0.0001160	0.3359
Fe2599		0.05321	Cts/S	0.0001200	0.2261

**CalibStd-200 ppb**

Acquire Date: 2/22/2023 11:21:53AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
K_7664		2.965	Cts/S	0.005739	0.1936
K_7698		1.262	Cts/S	0.003212	0.2545
Mg2795		1.348	Cts/S	0.003640	0.2700
Mg2802		1.001	Cts/S	0.001915	0.1914
Mg2852		0.1570	Cts/S	0.0002290	0.1458
Mn2576		0.3181	Cts/S	0.0009610	0.3023
Mn2593		0.2726	Cts/S	0.0004700	0.1723
Na5895		0.7487	Cts/S	0.001021	0.1363
Ni2316		0.02081	Cts/S	0.0001310	0.6291
Ni3414		0.01295	Cts/S	0.00007600	0.5844
Pb2169		0.001747	Cts/S	0.00002400	1.376
Pb2203		0.006918	Cts/S	0.00002800	0.3991
Pb2833		0.002205	Cts/S	0.00002500	1.128
Sb2068		0.004268	Cts/S	0.00002700	0.6229
Sb2175		0.004247	Cts/S	0.00006500	1.535
Se1960		0.002197	Cts/S	0.00005000	2.283
Se2039		0.001327	Cts/S	0.00003400	2.589
Tl1908		0.004446	Cts/S	0.00003000	0.6848
Tl3519		0.002423	Cts/S	0.00008600	3.542
V_2924		0.05539	Cts/S	0.00001900	0.03457
V_3093	i	*****	Cts/S	-----	-----
Zn2025		0.05566	Cts/S	0.0002090	0.3749
Zn2062		0.03452	Cts/S	0.0001490	0.4330
Sc3613		35,803	Cts/S	170.17	0.47531

**CalibStd-1000 ppb**

Acquire Date: 2/22/2023 11:25:29AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.2978	Cts/S	0.001395	0.4685
Ag3382		0.1748	Cts/S	0.0003850	0.2203
Al1670		0.02600	Cts/S	0.0001510	0.5819
Al3092	i	*****	Cts/S	-----	-----
As1890		0.008297	Cts/S	0.00003000	0.3656
As1937		0.01245	Cts/S	0.00008500	0.6798
Ba2335		0.2680	Cts/S	0.0009430	0.3518
Ba4554		21.13	Cts/S	0.07929	0.3752
Be2348		1.033	Cts/S	0.002983	0.2889
Be3130		9.327	Cts/S	0.007482	0.08022
Ca3179		0.2805	Cts/S	0.0001680	0.05980
Ca3933		42.16	Cts/S	0.2075	0.4921
Cd2144		0.5720	Cts/S	0.002314	0.4045
Cd2288		0.2890	Cts/S	0.0007180	0.2484
Co2286		0.1306	Cts/S	0.0003800	0.2910
Co2388		0.1654	Cts/S	0.0004400	0.2661
Cr2677		0.2587	Cts/S	0.0006680	0.2583
Cr2835		0.3092	Cts/S	0.0008470	0.2738
Cu3247		0.4282	Cts/S	0.0006510	0.1521
Cu3273		0.2467	Cts/S	0.0003360	0.1360
Fe2382		0.1723	Cts/S	0.0005050	0.2934

**CalibStd-1000 ppb**

Acquire Date: 2/22/2023 11:25:29AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Fe2599		0.2636	Cts/S	0.001371	0.5202
Mg2795		6.529	Cts/S	0.01306	0.2000
Mg2802		4.924	Cts/S	0.001413	0.02870
Mg2852		0.7693	Cts/S	0.0002570	0.03343
Mn2576		1.543	Cts/S	0.001066	0.06908
Mn2593		1.322	Cts/S	0.0008860	0.06701
Na5895		3.974	Cts/S	0.004827	0.1215
Ni2316		0.1032	Cts/S	0.0001630	0.1582
Ni3414		0.06454	Cts/S	0.0002360	0.3657
Pb2169		0.008462	Cts/S	0.00006200	0.7321
Pb2203		0.03416	Cts/S	0.0001070	0.3124
Pb2833		0.01172	Cts/S	0.0001280	1.095
Sb2068		0.02127	Cts/S	0.00002300	0.1063
Sb2175		0.02094	Cts/S	0.00001700	0.08157
Se1960		0.01085	Cts/S	0.00005300	0.4888
Se2039		0.006704	Cts/S	0.00003600	0.5319
Ti1908		0.02204	Cts/S	0.00005500	0.2499
Ti3519		0.01105	Cts/S	0.00008900	0.8097
V_2924		0.2730	Cts/S	0.0008660	0.3174
V_3093	i	*****	Cts/S	-----	-----
Zn2025		0.2754	Cts/S	0.001284	0.4663
Zn2062		0.1710	Cts/S	0.0007420	0.4340
Sc3613		35,236	Cts/S	13.145	0.037304

**CalibStd-2000 ppb**

Acquire Date: 2/22/2023 11:29:11AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.5846	Cts/S	0.002024	0.3462
Ag3382		0.3445	Cts/S	0.0008490	0.2466
Al1670		0.04913	Cts/S	0.0001030	0.2093
Al3092	i	*****	Cts/S	-----	-----
As1890		0.01637	Cts/S	0.00003100	0.1884
As1937		0.02435	Cts/S	0.00006700	0.2765
Ba2335		0.5215	Cts/S	0.001332	0.2554
Ba4554		40.92	Cts/S	0.2359	0.5766
Be2348		2.068	Cts/S	0.006504	0.3145
Be3130		18.25	Cts/S	0.1309	0.7174
Ca3179		0.5410	Cts/S	0.001229	0.2272
Ca3933		78.07	Cts/S	0.3501	0.4485
Cd2144		1.119	Cts/S	0.001374	0.1228
Cd2288		0.5658	Cts/S	0.0009640	0.1704
Co2286		0.2540	Cts/S	0.0006020	0.2368
Co2388		0.3255	Cts/S	0.001342	0.4123
Cr2677		0.5060	Cts/S	0.0007520	0.1486
Cr2835		0.6095	Cts/S	0.002667	0.4375
Cu3247		0.8366	Cts/S	0.001168	0.1396
Cu3273		0.4821	Cts/S	0.001728	0.3585
Fe2382		0.3350	Cts/S	0.001201	0.3585
Fe2599		0.5111	Cts/S	0.0003290	0.06442

**CalibStd-2000 ppb**

Acquire Date: 2/22/2023 11:29:11AM

Sample Type: Standard

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Mg2795		12.60	Cts/S	0.01718	0.1363
Mg2802		9.391	Cts/S	0.05374	0.5722
Mg2852		1.509	Cts/S	0.002670	0.1769
Mn2576		2.994	Cts/S	0.002483	0.08293
Mn2593		2.559	Cts/S	0.003147	0.1229
Na5895		8.272	Cts/S	0.01753	0.2119
Ni2316		0.2003	Cts/S	0.0001610	0.08021
Ni3414		0.1269	Cts/S	0.0006000	0.4729
Pb2169		0.01637	Cts/S	0.00004500	0.2743
Pb2203		0.06652	Cts/S	0.0001390	0.2088
Pb2833		0.02279	Cts/S	0.00005900	0.2594
Sb2068		0.04194	Cts/S	0.0001550	0.3707
Sb2175		0.04093	Cts/S	0.0002010	0.4915
Se1960		0.02137	Cts/S	0.00004500	0.2091
Se2039		0.01321	Cts/S	0.00002700	0.2052
Tl1908		0.04271	Cts/S	0.0001320	0.3100
Tl3519		0.02129	Cts/S	0.0002790	1.310
V_2924		0.5419	Cts/S	0.001194	0.2203
V_3093	i	*****	Cts/S	----	----
Zn2025		0.5385	Cts/S	0.0004680	0.08685
Zn2062		0.3348	Cts/S	0.0001760	0.05254
Sc3613		35,263	Cts/S	80.232	0.22752

**ICV/CCV**

Acquire Date: 2/22/2023 11:33:33AM

Sample Type: QC

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		988.3	ppb	2.527	0.2557
Ag3382		930.5	ppb	2.710	0.2913
Al1670		1,026	ppb	4.114	0.4008
Al3092	i	*****	ppb	----	----
As1890		975.4	ppb	2.866	0.2938
As1937		978.3	ppb	8.294	0.8478
Ba2335		978.1	ppb	3.887	0.3974
Ba4554		991.1	ppb	5.159	0.5205
Be2348		974.5	ppb	1.869	0.1918
Be3130		973.9	ppb	1.735	0.1782
Ca3179		1,005	ppb	2.665	0.2653
Ca3933		1,046	ppb	5.607	0.5358
Cd2144		988.7	ppb	4.667	0.4720
Cd2288		986.3	ppb	4.205	0.4263
Co2286		985.0	ppb	2.702	0.2744
Co2388		996.2	ppb	2.842	0.2853
Cr2677		999.3	ppb	3.872	0.3875
Cr2835		1,014	ppb	2.930	0.2891
Cu3247		1,007	ppb	2.316	0.2299
Cu3273		1,005	ppb	2.596	0.2582
Fe2382		1,051	ppb	2.235	0.2127
Fe2599		1,048	ppb	3.130	0.2986
K_7664		1,028	ppb	3.742	0.3642

**ICV/CCV**

Acquire Date: 2/22/2023 11:33:33AM

Sample Type: QC

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
K_7698		1,020	ppb	3.609	0.3540
Mg2795		1,019	ppb	2.866	0.2813
Mg2802		1,004	ppb	1.915	0.1907
Mg2852		996.0	ppb	2.719	0.2730
Mn2576		1,008	ppb	1.477	0.1466
Mn2593		1,007	ppb	2.007	0.1993
Na5895		927.6	ppb	3.647	0.3931
Ni2316		1,003	ppb	4.342	0.4330
Ni3414		1,013	ppb	2.726	0.2690
Pb2169		1,001	ppb	4.417	0.4411
Pb2203		997.4	ppb	2.063	0.2069
Pb2833		1,002	ppb	15.12	1.509
Sb2068		948.2	ppb	5.645	0.5953
Sb2175		947.0	ppb	4.429	0.4677
Se1960		976.6	ppb	7.008	0.7176
Se2039		974.3	ppb	4.280	0.4392
Ti1908		1,005	ppb	3.864	0.3846
Ti3519		960.7	ppb	22.07	2.297
V_2924		1,039	ppb	2.386	0.2296
V_3093	i	*****	ppb	----	----
Zn2025		989.9	ppb	5.066	0.5118
Zn2062		994.3	ppb	5.154	0.5183
Sc3613		35,820	Cts/S	157.26	0.43902

**ICB/CCB**

Acquire Date: 2/22/2023 11:37:06AM

Sample Type: QC

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.3634	ppb	0.5390	148.3
Ag3382		-0.09126	ppb	0.2514	275.5
Al1670		-0.05539	ppb	0.2500	451.3
Al3092	i	*****	ppb	----	----
As1890		-0.007193	ppb	1.248	17,360
As1937		-1.468	ppb	1.889	128.7
Ba2335		0.1010	ppb	0.06147	60.89
Ba4554		0.02202	ppb	0.02091	94.98
Be2348		0.01910	ppb	0.03093	161.9
Be3130		0.08867	ppb	0.02186	24.66
Ca3179		-1.890	ppb	0.1595	8.440
Ca3933		-1.680	ppb	0.02487	1.481
Cd2144		0.05823	ppb	0.01886	32.39
Cd2288		-0.07741	ppb	0.09649	124.7
Co2286		0.006675	ppb	0.2979	4,462
Co2388		0.02113	ppb	0.6158	2,915
Cr2677		-0.3261	ppb	0.4930	151.2
Cr2835		-0.1441	ppb	0.1157	80.26
Cu3247		-0.3646	ppb	0.2828	77.57
Cu3273		-0.4093	ppb	0.09110	22.26
Fe2382		0.1732	ppb	0.4034	232.9
Fe2599		-0.3800	ppb	0.08164	21.48



**ICB/CCB**

Acquire Date: 2/22/2023 11:37:06AM

Sample Type: QC

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
K_7664		-1.120	ppb	0.1880	16.79
K_7698		-0.7354	ppb	0.6639	90.27
Mg2795		-0.1827	ppb	0.02221	12.16
Mg2802		-0.1856	ppb	0.008024	4.324
Mg2852		0.07195	ppb	0.08292	115.2
Mn2576		0.07930	ppb	0.02430	30.64
Mn2593		0.09310	ppb	0.04552	48.89
Na5895		-1.030	ppb	0.1415	13.74
Ni2316		0.1084	ppb	0.1577	145.6
Ni3414		-0.2787	ppb	1.470	527.5
Pb2169		-3.090	ppb	0.5091	16.48
Pb2203		-0.5904	ppb	1.122	190.0
Pb2833		-10.21	ppb	10.26	100.5
Sb2068		1.156	ppb	0.07595	6.568
Sb2175		0.2957	ppb	0.6900	233.3
Se1960		0.2087	ppb	1.032	494.5
Se2039		-2.234	ppb	3.831	171.5
Ti1908		-0.6750	ppb	0.3853	57.09
Ti3519		5.920	ppb	8.423	142.3
V_2924		0.1328	ppb	0.2545	191.6
V_3093	i	*****	ppb	----	----
Zn2025		-0.04485	ppb	0.1496	333.6
Zn2062		0.01052	ppb	0.07936	754.7
Sc3613		35,289	Cts/S	169.60	0.48059

**ICSA**

Acquire Date: 2/22/2023 11:40:53AM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.3929	ppb	0.3563	90.68
Ag3382		9.059	ppb	0.8179	9.029
Al1670		5,158	ppb	28.85	0.5592
Al3092	i	*****	ppb	----	----
As1890		-2.148	ppb	1.726	80.36
As1937		-1.691	ppb	1.896	112.1
Ba2335		-0.4089	ppb	0.07495	18.33
Ba4554		0.02956	ppb	0.01250	42.30
Be2348		-32.22	ppb	0.1271	0.3946
Be3130		0.01723	ppb	0.007992	46.38
Ca3179		29,130	ppb	207.7	0.7128
Ca3933	^	0.0000	ppb	0.0000	0.0000
Cd2144		0.7093	ppb	0.02258	3.183
Cd2288		-0.1321	ppb	0.03627	27.45
Co2286		0.05458	ppb	0.1786	327.2
Co2388	^	0.0000	ppb	0.0000	0.0000
Cr2677		-0.3168	ppb	0.1399	44.18
Cr2835		12.19	ppb	0.3245	2.663
Cu3247		-3.390	ppb	0.2803	8.270
Cu3273		-0.2587	ppb	0.4554	176.0
Fe2382		24,580	ppb	44.54	0.1812

**ICSA**

Acquire Date: 2/22/2023 11:40:53AM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Fe2599		24,350	ppb	46.28	0.1901
K_7664		-0.5199	ppb	0.5318	102.3
K_7698		1.275	ppb	1.226	96.14
Mg2795		10,780	ppb	35.05	0.3250
Mg2802		12,910	ppb	76.83	0.5949
Mg2852		14,020	ppb	74.63	0.5324
Mn2576		0.3128	ppb	0.02885	9.224
Mn2593		31.61	ppb	0.1150	0.3637
Na5895		5,248	ppb	65.57	1.249
Ni2316		0.03276	ppb	0.1924	587.2
Ni3414		-0.5665	ppb	3.499	617.7
Pb2169		20.00	ppb	5.453	27.26
Pb2203		1.233	ppb	1.339	108.7
Pb2833		45.75	ppb	12.13	26.51
Sb2068		-0.9197	ppb	0.5186	56.39
Sb2175		-4.488	ppb	0.1379	3.073
Se1960		-7.874	ppb	1.896	24.08
Se2039		1.979	ppb	1.295	65.42
Tl1908		-1.343	ppb	0.3461	25.77
Tl3519		2.839	ppb	12.95	456.0
V_2924		0.6256	ppb	0.2041	32.63
V_3093	i	*****	ppb	-----	-----
Zn2025		-0.7771	ppb	0.07709	9.921
Zn2062		0.3804	ppb	0.04754	12.50
Sc3613		34,565	Cts/S	127.06	0.36761

**ICSAB**

Acquire Date: 2/22/2023 11:45:20AM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		97.81	ppb	0.3518	0.3597
Ag3382		103.2	ppb	1.635	1.584
Al1670		5,262	ppb	23.54	0.4472
Al3092	i	*****	ppb	-----	-----
As1890		95.91	ppb	0.8002	0.8343
As1937		98.17	ppb	1.904	1.939
Ba2335		98.15	ppb	0.8238	0.8394
Ba4554		99.92	ppb	0.3144	0.3147
Be2348		68.45	ppb	0.4498	0.6570
Be3130		101.5	ppb	0.4858	0.4785
Ca3179		29,280	ppb	237.1	0.8099
Ca3933	^	0.0000	ppb	0.0000	0.0000
Cd2144		102.2	ppb	0.8460	0.8275
Cd2288		101.1	ppb	0.9564	0.9458
Co2286		97.85	ppb	0.9911	1.013
Co2388	^	0.0000	ppb	0.0000	0.0000
Cr2677		101.3	ppb	1.672	1.651
Cr2835		113.2	ppb	0.7898	0.6979
Cu3247		97.66	ppb	0.6248	0.6398
Cu3273		100.4	ppb	0.7406	0.7374

**ICSAB**

Acquire Date: 2/22/2023 11:45:20AM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Fe2382		24,900	ppb	91.40	0.3671
Fe2599		24,650	ppb	105.7	0.4287
K_7664		125.5	ppb	0.9057	0.7220
K_7698		125.6	ppb	2.154	1.716
Mg2795		10,930	ppb	66.14	0.6052
Mg2802		13,020	ppb	168.8	1.297
Mg2852		14,250	ppb	175.4	1.231
Mn2576		102.4	ppb	1.031	1.007
Mn2593		132.8	ppb	1.282	0.9656
Na5895		5,351	ppb	40.12	0.7498
Ni2316		100.2	ppb	0.7142	0.7128
Ni3414		100.7	ppb	1.945	1.930
Pb2169		118.1	ppb	1.363	1.154
Pb2203		98.87	ppb	2.465	2.493
Pb2833		138.3	ppb	12.71	9.191
Sb2068		97.05	ppb	1.916	1.974
Sb2175		90.45	ppb	1.951	2.157
Se1960		92.89	ppb	1.854	1.996
Se2039		99.26	ppb	2.993	3.015
Tl1908		96.91	ppb	1.656	1.708
Tl3519		92.00	ppb	4.569	4.966
V_2924		106.8	ppb	1.026	0.9608
V_3093	i	*****	ppb	-----	-----
Zn2025		99.84	ppb	0.8844	0.8858
Zn2062		100.7	ppb	0.7002	0.6952
Sc3613		34,493	Cts/S	270.80	0.78509

**MP-1374-LB**

Acquire Date: 2/22/2023 11:49:34AM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.2404	ppb	0.2022	84.12
Ag3382		0.5432	ppb	0.7111	130.9
Al1670		1.211	ppb	0.3508	28.96
Al3092	i	*****	ppb	-----	-----
As1890		-0.7486	ppb	1.498	200.1
As1937		-2.439	ppb	0.6799	27.87
Ba2335		0.08057	ppb	0.05416	67.22
Ba4554		0.02608	ppb	0.01421	54.48
Be2348		-0.02403	ppb	0.07002	291.4
Be3130		-0.01976	ppb	0.007242	36.65
Ca3179		15.69	ppb	0.5636	3.593
Ca3933		15.83	ppb	0.5046	3.188
Cd2144		-0.009150	ppb	0.04412	482.2
Cd2288		-0.1612	ppb	0.07429	46.10
Co2286		-0.004892	ppb	0.1317	2,693
Co2388		-0.6364	ppb	0.1862	29.26
Cr2677		0.2195	ppb	0.07922	36.08
Cr2835		-0.3165	ppb	0.2288	72.29
Cu3247		-0.5326	ppb	0.4085	76.69

**MP-1374-LB**

Acquire Date: 2/22/2023 11:49:34AM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Cu3273		-0.9060	ppb	0.3627	40.03
Fe2382		12.87	ppb	0.3681	2.860
Fe2599		12.27	ppb	0.4931	4.018
K_7664		6.043	ppb	0.4143	6.857
K_7698		-7.362	ppb	0.5106	6.935
Mg2795		0.8764	ppb	0.1511	17.24
Mg2802		0.8659	ppb	0.1343	15.51
Mg2852		0.9317	ppb	0.2648	28.42
Mn2576		0.4384	ppb	0.04320	9.855
Mn2593		0.4576	ppb	0.02758	6.027
Na5895		21.44	ppb	0.07704	0.3594
Ni2316		0.2333	ppb	0.2054	88.03
Ni3414		1.827	ppb	0.7923	43.37
Pb2169		-3.522	ppb	0.8328	23.65
Pb2203		-0.7101	ppb	1.051	148.0
Pb2833		-4.733	ppb	5.438	114.9
Sb2068		-1.101	ppb	1.456	132.3
Sb2175		-1.279	ppb	0.8881	69.41
Se1960		-2.030	ppb	0.8112	39.96
Se2039		8.407	ppb	3.477	41.36
Tl1908		-0.5022	ppb	0.2486	49.49
Tl3519		11.94	ppb	8.434	70.65
V_2924		0.3136	ppb	0.3975	126.7
V_3093	i	*****	ppb	----	----
Zn2025		1.076	ppb	0.007345	0.6827
Zn2062		1.080	ppb	0.05166	4.784
Sc3613		36,255	Cts/S	151.04	0.41659

**MP-1374-LCS**

Acquire Date: 2/22/2023 11:53:27AM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		82.13	ppb	0.5378	0.6548
Ag3382		81.50	ppb	0.8646	1.061
Al1670		114.3	ppb	0.4356	0.3812
Al3092	i	*****	ppb	----	----
As1890		105.7	ppb	0.2508	0.2372
As1937		105.1	ppb	1.748	1.663
Ba2335		107.0	ppb	0.1699	0.1587
Ba4554		108.7	ppb	0.2928	0.2694
Be2348		105.0	ppb	0.5248	0.4998
Be3130		102.4	ppb	0.1458	0.1424
Ca3179		108.2	ppb	0.3328	0.3075
Ca3933		116.2	ppb	0.2371	0.2040
Cd2144		106.2	ppb	0.2889	0.2721
Cd2288		105.6	ppb	0.2938	0.2783
Co2286		107.8	ppb	0.5686	0.5277
Co2388		106.8	ppb	0.2506	0.2345
Cr2677		106.9	ppb	0.6865	0.6419
Cr2835		107.6	ppb	0.8993	0.8361

**MP-1374-LCS**

Acquire Date: 2/22/2023 11:53:27AM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Cu3247		106.6	ppb	0.7031	0.6596
Cu3273		105.4	ppb	1.085	1.029
Fe2382		105.7	ppb	0.8952	0.8471
Fe2599		105.7	ppb	0.6025	0.5703
K_7664		1,079	ppb	4.340	0.4023
K_7698		1,063	ppb	4.308	0.4054
Mg2795		109.3	ppb	0.3679	0.3365
Mg2802		107.7	ppb	0.1291	0.1200
Mg2852		108.0	ppb	0.7098	0.6574
Mn2576		107.5	ppb	0.2945	0.2740
Mn2593		108.1	ppb	0.2968	0.2746
Na5895		92.33	ppb	0.5751	0.6229
Ni2316		107.2	ppb	0.4702	0.4387
Ni3414		107.3	ppb	0.6614	0.6162
Pb2169		106.6	ppb	1.595	1.497
Pb2203		106.4	ppb	1.428	1.342
Pb2833		109.0	ppb	2.882	2.643
Sb2068		103.3	ppb	0.3769	0.3649
Sb2175		103.8	ppb	0.7467	0.7194
Se1960		104.8	ppb	0.8589	0.8194
Se2039		104.7	ppb	1.053	1.006
Ti1908		106.3	ppb	0.7345	0.6909
Ti3519		125.8	ppb	4.475	3.557
V_2924		106.0	ppb	0.2538	0.2394
V_3093	i	*****	ppb	-----	-----
Zn2025		107.8	ppb	0.1887	0.1750
Zn2062		108.5	ppb	0.8118	0.7480
Sc3613		36,187	Cts/S	93.832	0.25930

**MP-1374-LCS**

Acquire Date: 2/22/2023 11:57:02AM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		77.61	ppb	0.2640	0.3401
Ag3382		77.39	ppb	0.9093	1.175
Al1670		107.8	ppb	1.077	0.9988
Al3092	i	*****	ppb	-----	-----
As1890		99.98	ppb	1.106	1.106
As1937		98.27	ppb	0.5179	0.5270
Ba2335		101.3	ppb	0.1491	0.1471
Ba4554		102.9	ppb	0.2144	0.2084
Be2348		98.55	ppb	0.5765	0.5850
Be3130		97.60	ppb	0.3370	0.3453
Ca3179		101.7	ppb	0.3397	0.3342
Ca3933		107.4	ppb	0.3341	0.3110
Cd2144		101.1	ppb	0.2843	0.2813
Cd2288		100.5	ppb	0.3266	0.3250
Co2286		101.6	ppb	0.2563	0.2522
Co2388		101.0	ppb	0.8534	0.8450
Cr2677		100.6	ppb	0.4829	0.4800

**MP-1374-LCS**

Acquire Date: 2/22/2023 11:57:02AM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Cr2835		100.8	ppb	0.8539	0.8474
Cu3247		101.0	ppb	0.1681	0.1664
Cu3273		101.2	ppb	0.9783	0.9666
Fe2382		100.3	ppb	0.4660	0.4647
Fe2599		100.2	ppb	1.117	1.114
K_7664		1,030	ppb	2.434	0.2363
K_7698		1,017	ppb	2.279	0.2240
Mg2795		103.1	ppb	0.3731	0.3620
Mg2802		103.1	ppb	0.3775	0.3663
Mg2852		102.8	ppb	0.7433	0.7229
Mn2576		102.9	ppb	0.4863	0.4727
Mn2593		102.9	ppb	0.5908	0.5740
Na5895		87.77	ppb	0.3302	0.3762
Ni2316		102.1	ppb	0.3640	0.3566
Ni3414		101.6	ppb	2.246	2.210
Pb2169		100.8	ppb	3.451	3.424
Pb2203		102.2	ppb	0.4595	0.4495
Pb2833		106.8	ppb	2.580	2.417
Sb2068		98.65	ppb	0.7759	0.7865
Sb2175		98.88	ppb	0.7526	0.7611
Se1960		98.04	ppb	2.114	2.156
Se2039		98.05	ppb	2.054	2.095
Ti1908		101.4	ppb	1.206	1.189
Ti3519		110.9	ppb	8.226	7.421
V_2924		100.1	ppb	0.06475	0.06468
V_3093	i	*****	ppb	-----	-----
Zn2025		100.8	ppb	0.3289	0.3262
Zn2062		100.7	ppb	0.4626	0.4592
Sc3613		36,125	Cts/S	84.998	0.23528

**MDL 1**

Acquire Date: 2/22/2023 12:00:39PM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		5.505	ppb	0.2947	5.353
Ag3382		4.789	ppb	0.3654	7.630
Al1670		55.36	ppb	0.2548	0.4603
Al3092	i	*****	ppb	-----	-----
As1890		8.477	ppb	1.303	15.37
As1937		7.874	ppb	0.7959	10.11
Ba2335		2.158	ppb	0.03826	1.773
Ba4554		2.137	ppb	0.01664	0.7786
Be2348		0.8980	ppb	0.1023	11.39
Be3130		1.001	ppb	0.01139	1.138
Ca3179		61.06	ppb	0.1991	0.3261
Ca3933		64.15	ppb	0.1621	0.2527
Cd2144		1.124	ppb	0.01048	0.9319
Cd2288		1.074	ppb	0.1105	10.29
Co2286		5.107	ppb	0.2483	4.861
Co2388		2.338	ppb	0.3347	14.32

**MDL 1**

Acquire Date: 2/22/2023 12:00:39PM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Cr2677		1.791	ppb	0.3758	20.98
Cr2835		1.632	ppb	0.4618	28.30
Cu3247		9.949	ppb	0.1098	1.104
Cu3273		9.692	ppb	0.05721	0.5903
Fe2382		68.02	ppb	0.4627	0.6803
Fe2599		67.43	ppb	0.5764	0.8547
K_7664		50.32	ppb	0.3879	0.7710
K_7698		38.90	ppb	1.308	3.362
Mg2795		51.78	ppb	0.01572	0.03035
Mg2802		52.08	ppb	0.2475	0.4751
Mg2852		51.64	ppb	0.4383	0.8487
Mn2576		2.320	ppb	0.08147	3.512
Mn2593		2.362	ppb	0.09535	4.036
Na5895		43.72	ppb	0.2050	0.4688
Ni2316		5.354	ppb	0.1753	3.274
Ni3414		3.193	ppb	0.9246	28.96
Pb2169		3.868	ppb	4.396	113.7
Pb2203		4.063	ppb	1.104	27.18
Pb2833		-2.835	ppb	7.747	273.2
Sb2068		6.605	ppb	0.4526	6.852
Sb2175		7.585	ppb	1.535	20.24
Se1960		11.02	ppb	0.4901	4.447
Se2039		12.69	ppb	0.8514	6.709
Ti1908		9.824	ppb	0.6199	6.310
Ti3519		7.779	ppb	13.77	177.0
V_2924		10.51	ppb	0.2781	2.645
V_3093	i	*****	ppb	-----	-----
Zn2025		41.64	ppb	0.2501	0.6006
Zn2062		41.76	ppb	0.1202	0.2879
Sc3613		36,019	Cts/S	98.787	0.27426

**MDL 2**

Acquire Date: 2/22/2023 12:04:24PM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		5.382	ppb	0.2994	5.563
Ag3382		5.144	ppb	0.5555	10.80
Al1670		55.69	ppb	1.024	1.839
Al3092	i	*****	ppb	-----	-----
As1890		9.659	ppb	2.748	28.45
As1937		7.371	ppb	0.7113	9.650
Ba2335		2.032	ppb	0.02367	1.165
Ba4554		2.134	ppb	0.03131	1.467
Be2348		0.9221	ppb	0.04024	4.364
Be3130		0.9754	ppb	0.02768	2.837
Ca3179		60.45	ppb	1.130	1.869
Ca3933		64.35	ppb	0.6185	0.9611
Cd2144		1.053	ppb	0.03860	3.666
Cd2288		1.049	ppb	0.1081	10.30
Co2286		5.186	ppb	0.1549	2.987

**MDL 2**

Acquire Date: 2/22/2023 12:04:24PM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Co2388		2.868	ppb	0.5920	20.64
Cr2677		1.879	ppb	0.5643	30.03
Cr2835		2.146	ppb	0.3525	16.42
Cu3247		9.535	ppb	0.3106	3.257
Cu3273		9.240	ppb	0.7901	8.551
Fe2382		53.86	ppb	0.5333	0.9902
Fe2599		52.63	ppb	1.120	2.128
K_7664		49.17	ppb	0.3831	0.7792
K_7698		37.33	ppb	0.3855	1.032
Mg2795		51.26	ppb	0.5138	1.002
Mg2802		50.91	ppb	0.5096	1.001
Mg2852		50.94	ppb	0.3175	0.6233
Mn2576		2.086	ppb	0.05238	2.511
Mn2593		2.210	ppb	0.01981	0.8963
Na5895		42.80	ppb	0.2954	0.6902
Ni2316		5.101	ppb	0.08461	1.659
Ni3414		5.540	ppb	2.763	49.87
Pb2169		3.404	ppb	2.220	65.22
Pb2203		6.659	ppb	0.5604	8.415
Pb2833		2.925	ppb	8.439	288.5
Sb2068		8.842	ppb	0.9927	11.23
Sb2175		8.049	ppb	1.695	21.06
Se1960		9.477	ppb	1.138	12.01
Se2039		10.09	ppb	3.854	38.21
Ti1908		10.81	ppb	0.2902	2.684
Ti3519		31.59	ppb	10.62	33.63
V_2924		10.95	ppb	0.6171	5.634
V_3093	i	*****	ppb	----	----
Zn2025		41.00	ppb	0.1836	0.4477
Zn2062		41.26	ppb	0.5005	1.213
Sc3613		36,201	Cts/S	230.50	0.63672

**MDL 3**

Acquire Date: 2/22/2023 12:08:13PM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		5.790	ppb	0.4365	7.538
Ag3382		5.615	ppb	0.9941	17.70
Al1670		59.36	ppb	0.3433	0.5783
Al3092	i	*****	ppb	----	----
As1890		8.723	ppb	0.04966	0.5692
As1937		9.032	ppb	1.349	14.93
Ba2335		2.314	ppb	0.05480	2.368
Ba4554		2.282	ppb	0.04928	2.160
Be2348		0.9784	ppb	0.03651	3.731
Be3130		1.019	ppb	0.02617	2.569
Ca3179		253.0	ppb	1.517	0.5996
Ca3933		271.1	ppb	1.127	0.4156
Cd2144		1.119	ppb	0.02188	1.955
Cd2288		1.029	ppb	0.07775	7.558



**MDL 3**

Acquire Date: 2/22/2023 12:08:13PM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Co2286		5.409	ppb	0.1064	1.966
Co2388		3.140	ppb	0.6903	21.98
Cr2677		1.896	ppb	0.1025	5.405
Cr2835		2.150	ppb	0.3276	15.24
Cu3247		10.56	ppb	0.1433	1.358
Cu3273		10.46	ppb	0.7063	6.755
Fe2382		61.54	ppb	0.6249	1.015
Fe2599		60.78	ppb	0.6246	1.028
K_7664		53.46	ppb	0.2658	0.4972
K_7698		39.54	ppb	1.229	3.107
Mg2795		57.10	ppb	0.3707	0.6492
Mg2802		56.18	ppb	0.4048	0.7206
Mg2852		56.33	ppb	0.3995	0.7092
Mn2576		2.374	ppb	0.05092	2.145
Mn2593		2.392	ppb	0.03105	1.298
Na5895		51.32	ppb	0.1971	0.3840
Ni2316		5.555	ppb	0.3324	5.983
Ni3414		4.162	ppb	1.008	24.22
Pb2169		2.000	ppb	4.296	214.8
Pb2203		5.439	ppb	2.054	37.77
Pb2833		5.330	ppb	3.218	60.37
Sb2068		9.129	ppb	0.5884	6.446
Sb2175		6.206	ppb	1.195	19.26
Se1960		10.47	ppb	1.033	9.867
Se2039		15.82	ppb	2.202	13.92
Ti1908		11.14	ppb	0.6451	5.792
Ti3519		19.08	ppb	12.85	67.36
V_2924		11.02	ppb	0.5620	5.100
V_3093	i	*****	ppb	----	----
Zn2025		43.76	ppb	0.2596	0.5931
Zn2062		44.24	ppb	0.4097	0.9259
Sc3613		36,116	Cts/S	208.17	0.57641

**MDL 4**

Acquire Date: 2/22/2023 12:12:07PM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		5.803	ppb	0.1122	1.934
Ag3382		5.048	ppb	0.2433	4.820
Al1670		57.50	ppb	0.1810	0.3147
Al3092	i	*****	ppb	----	----
As1890		7.923	ppb	0.4836	6.104
As1937		8.235	ppb	1.221	14.83
Ba2335		2.240	ppb	0.1031	4.604
Ba4554		2.219	ppb	0.003421	0.1542
Be2348		0.8862	ppb	0.05476	6.179
Be3130		0.9970	ppb	0.01081	1.084
Ca3179		62.38	ppb	0.4630	0.7422
Ca3933		67.43	ppb	0.1350	0.2003
Cd2144		1.088	ppb	0.02281	2.097

**MDL 4**

Acquire Date: 2/22/2023 12:12:07PM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2288		1.052	ppb	0.06109	5.805
Co2286		5.300	ppb	0.06969	1.315
Co2388		3.323	ppb	0.5621	16.92
Cr2677		2.013	ppb	0.4050	20.12
Cr2835		2.197	ppb	0.2729	12.42
Cu3247		10.33	ppb	0.3032	2.936
Cu3273		9.752	ppb	0.4054	4.157
Fe2382		61.15	ppb	0.9239	1.511
Fe2599		60.44	ppb	0.3562	0.5894
K_7664		50.66	ppb	0.5366	1.059
K_7698		36.83	ppb	0.2254	0.6119
Mg2795		53.16	ppb	0.1441	0.2711
Mg2802		52.16	ppb	0.1599	0.3066
Mg2852		52.61	ppb	0.2885	0.5484
Mn2576		2.184	ppb	0.03009	1.378
Mn2593		2.329	ppb	0.03059	1.314
Na5895		44.97	ppb	0.1404	0.3122
Ni2316		5.655	ppb	0.2275	4.022
Ni3414		5.834	ppb	1.920	32.91
Pb2169		4.532	ppb	2.123	46.85
Pb2203		6.100	ppb	1.841	30.18
Pb2833		5.783	ppb	7.679	132.8
Sb2068		8.423	ppb	0.3648	4.331
Sb2175		8.456	ppb	0.4873	5.764
Se1960		8.157	ppb	1.104	13.54
Se2039		14.17	ppb	4.349	30.69
Ti1908		9.768	ppb	0.07434	0.7611
Ti3519		26.23	ppb	9.163	34.93
V_2924		11.08	ppb	0.3180	2.869
V_3093	i	*****	ppb	----	----
Zn2025		42.53	ppb	0.06366	0.1497
Zn2062		42.97	ppb	0.08863	0.2063
Sc3613		36,242	Cts/S	64.051	0.17673

**MDL 5**

Acquire Date: 2/22/2023 12:15:54PM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		5.600	ppb	0.3509	6.267
Ag3382		4.754	ppb	0.4697	9.880
Al1670		55.82	ppb	0.8809	1.578
Al3092	i	*****	ppb	----	----
As1890		8.325	ppb	1.059	12.72
As1937		8.525	ppb	2.301	26.98
Ba2335		2.125	ppb	0.1113	5.237
Ba4554		2.162	ppb	0.005879	0.2719
Be2348		0.8424	ppb	0.08050	9.556
Be3130		0.9791	ppb	0.01441	1.472
Ca3179		62.96	ppb	0.4684	0.7440
Ca3933		66.00	ppb	0.2471	0.3745

**MDL 5**

Acquire Date: 2/22/2023 12:15:54PM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		1.126	ppb	0.03545	3.148
Cd2288		1.101	ppb	0.09531	8.659
Co2286		5.232	ppb	0.06446	1.232
Co2388		0.02943	ppb	0.7928	2,694
Cr2677		2.230	ppb	0.2588	11.60
Cr2835		2.056	ppb	0.09784	4.759
Cu3247		9.816	ppb	0.2380	2.425
Cu3273		9.861	ppb	0.08212	0.8328
Fe2382		127.0	ppb	0.7787	0.6130
Fe2599		125.8	ppb	0.8105	0.6444
K_7664		50.50	ppb	0.6592	1.305
K_7698		37.97	ppb	0.7092	1.868
Mg2795		52.32	ppb	0.1973	0.3771
Mg2802		52.48	ppb	0.1734	0.3303
Mg2852		51.99	ppb	0.2423	0.4660
Mn2576		2.442	ppb	0.04425	1.812
Mn2593		2.590	ppb	0.07117	2.748
Na5895		43.82	ppb	0.3531	0.8058
Ni2316		5.733	ppb	0.2844	4.961
Ni3414		6.391	ppb	2.306	36.08
Pb2169		4.063	ppb	2.587	63.65
Pb2203		4.600	ppb	2.162	47.00
Pb2833		8.292	ppb	12.15	146.5
Sb2068		6.291	ppb	0.8914	14.17
Sb2175		7.947	ppb	0.4964	6.246
Se1960		8.771	ppb	1.376	15.69
Se2039		16.17	ppb	2.323	14.37
Tl1908		10.42	ppb	0.4572	4.388
Tl3519		27.32	ppb	12.12	44.37
V_2924		10.58	ppb	0.2466	2.331
V_3093	i	*****	ppb	----	----
Zn2025		41.42	ppb	0.1682	0.4061
Zn2062		41.34	ppb	0.2438	0.5898
Sc3613		36,001	Cts/S	164.12	0.45587

**ICV/CCV**

Acquire Date: 2/22/2023 12:19:44PM

Sample Type: QC

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		973.4	ppb	2.328	0.2391
Ag3382		929.6	ppb	1.260	0.1355
Al1670		1,023	ppb	5.806	0.5675
Al3092	iF	*****	ppb	----	----
As1890		977.7	ppb	3.145	0.3217
As1937		980.5	ppb	3.030	0.3090
Ba2335		981.1	ppb	3.723	0.3795
Ba4554		1,002	ppb	4.672	0.4662
Be2348		958.6	ppb	0.7474	0.07797
Be3130		973.7	ppb	1.202	0.1235
Ca3179		1,008	ppb	1.950	0.1936

**ICV/CCV**

Acquire Date: 2/22/2023 12:19:44PM

Sample Type: QC

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ca3933		1,042	ppb	7.299	0.7005
Cd2144		992.7	ppb	4.099	0.4129
Cd2288		984.5	ppb	4.232	0.4299
Co2286		984.7	ppb	5.053	0.5132
Co2388		997.6	ppb	3.534	0.3543
Cr2677		997.7	ppb	1.197	0.1200
Cr2835		1,003	ppb	1.039	0.1036
Cu3247		1,017	ppb	0.8046	0.07908
Cu3273		1,014	ppb	0.6572	0.06480
Fe2382		1,039	ppb	1.604	0.1543
Fe2599		1,044	ppb	1.524	0.1460
K_7664		1,024	ppb	0.8438	0.08240
K_7698		1,016	ppb	1.498	0.1474
Mg2795		1,014	ppb	2.399	0.2366
Mg2802		1,005	ppb	1.238	0.1231
Mg2852		1,000	ppb	1.555	0.1555
Mn2576		1,012	ppb	0.6949	0.06867
Mn2593		1,007	ppb	1.174	0.1166
Na5895		917.7	ppb	1.361	0.1484
Ni2316		1,012	ppb	2.398	0.2370
Ni3414		1,007	ppb	1.312	0.1303
Pb2169		1,009	ppb	2.464	0.2442
Pb2203		997.2	ppb	4.316	0.4329
Pb2833		1,013	ppb	6.379	0.6294
Sb2068		962.1	ppb	4.281	0.4450
Sb2175		960.6	ppb	6.227	0.6482
Se1960		991.7	ppb	6.219	0.6271
Se2039		985.6	ppb	7.480	0.7589
Tl1908		1,014	ppb	4.846	0.4780
Tl3519		944.4	ppb	15.84	1.677
V_2924		1,040	ppb	0.5634	0.05415
V_3093	i	*****	ppb	----	----
Zn2025		987.5	ppb	4.135	0.4187
Zn2062		985.8	ppb	4.941	0.5012
Sc3613		35,649	Cts/S	101.00	0.28331

**ICB/CCB**

Acquire Date: 2/22/2023 12:23:23PM

Sample Type: QC

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.1267	ppb	0.2436	192.2
Ag3382		0.1074	ppb	0.5170	481.3
Al1670		0.1066	ppb	0.2650	248.6
Al3092	i	*****	ppb	----	----
As1890		-1.238	ppb	1.959	158.2
As1937		-1.911	ppb	3.016	157.9
Ba2335		0.08748	ppb	0.04542	51.92
Ba4554		0.03006	ppb	0.01532	50.97
Be2348		-0.06138	ppb	0.08265	134.7
Be3130		0.01107	ppb	0.02495	225.3

**ICB/CCB**

Acquire Date: 2/22/2023 12:23:23PM

Sample Type: QC

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ca3179		-1.183	ppb	0.8217	69.47
Ca3933		-1.594	ppb	0.02053	1.288
Cd2144		-0.02642	ppb	0.01650	62.45
Cd2288		-0.05732	ppb	0.1943	339.0
Co2286		0.009563	ppb	0.2595	2,714
Co2388		-0.1222	ppb	0.3424	280.1
Cr2677		0.03980	ppb	0.2579	648.0
Cr2835		-0.1370	ppb	0.05937	43.33
Cu3247		-0.2718	ppb	0.2581	94.95
Cu3273		-0.5774	ppb	0.1592	27.56
Fe2382		0.6681	ppb	0.2856	42.75
Fe2599		0.5277	ppb	0.4533	85.90
K_7664		-1.292	ppb	0.2188	16.94
K_7698		-0.8601	ppb	0.3740	43.48
Mg2795		-0.1418	ppb	0.02283	16.10
Mg2802		-0.1495	ppb	0.02001	13.39
Mg2852		-0.07593	ppb	0.1167	153.7
Mn2576		0.04259	ppb	0.03954	92.83
Mn2593		0.1700	ppb	0.01720	10.12
Na5895		-1.138	ppb	0.1913	16.81
Ni2316		-0.06806	ppb	0.2136	313.8
Ni3414		-0.4981	ppb	1.840	369.4
Pb2169		-1.678	ppb	3.586	213.7
Pb2203		-0.1882	ppb	0.7961	422.9
Pb2833		-1.206	ppb	5.829	483.2
Sb2068		0.03349	ppb	1.384	4,133
Sb2175		-1.138	ppb	1.909	167.7
Se1960		-0.3831	ppb	1.350	352.5
Se2039		8.154	ppb	2.917	35.77
Tl1908		-0.7628	ppb	0.6936	90.92
Tl3519		19.43	ppb	15.25	78.48
V_2924		0.5443	ppb	0.2495	45.83
V_3093	i	*****	ppb	-----	-----
Zn2025		-0.05061	ppb	0.01332	26.32
Zn2062		-0.08027	ppb	0.08022	99.94
Sc3613		35,214	Cts/S	43.817	0.12443

**MDL 6**

Acquire Date: 2/22/2023 12:27:12PM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		5.184	ppb	0.2087	4.025
Ag3382		5.156	ppb	1.075	20.85
Al1670		54.59	ppb	0.5258	0.9631
Al3092	i	*****	ppb	-----	-----
As1890		7.351	ppb	1.750	23.81
As1937		8.210	ppb	1.251	15.24
Ba2335		2.076	ppb	0.1133	5.457
Ba4554		2.136	ppb	0.01222	0.5723
Be2348		0.9296	ppb	0.01662	1.787

**MDL 6**

Acquire Date: 2/22/2023 12:27:12PM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Be3130		0.9687	ppb	0.01837	1.897
Ca3179		57.32	ppb	1.174	2.048
Ca3933		61.80	ppb	0.3225	0.5218
Cd2144		1.119	ppb	0.01776	1.587
Cd2288		0.9543	ppb	0.01088	1.140
Co2286		5.081	ppb	0.09761	1.921
Co2388		2.988	ppb	0.2237	7.487
Cr2677		2.133	ppb	0.3796	17.80
Cr2835		1.750	ppb	0.2081	11.89
Cu3247		9.676	ppb	0.2253	2.328
Cu3273		10.16	ppb	0.04641	0.4568
Fe2382		56.81	ppb	0.3902	0.6869
Fe2599		56.13	ppb	0.2136	0.3805
K_7664		50.01	ppb	0.7965	1.593
K_7698		36.54	ppb	0.2837	0.7765
Mg2795		52.06	ppb	0.2630	0.5051
Mg2802		50.84	ppb	0.2137	0.4203
Mg2852		51.22	ppb	0.2452	0.4787
Mn2576		2.216	ppb	0.01988	0.8970
Mn2593		2.325	ppb	0.09663	4.155
Na5895		43.71	ppb	0.2755	0.6304
Ni2316		5.570	ppb	0.4680	8.402
Ni3414		2.758	ppb	2.859	103.7
Pb2169		1.743	ppb	3.754	215.4
Pb2203		5.073	ppb	2.453	48.35
Pb2833		10.68	ppb	7.382	69.11
Sb2068		7.964	ppb	1.002	12.58
Sb2175		8.397	ppb	0.6405	7.628
Se1960		9.184	ppb	0.6784	7.386
Se2039		14.91	ppb	0.8510	5.707
Tl1908		10.98	ppb	0.8275	7.535
Tl3519		-1.670	ppb	2.821	168.9
V_2924		10.69	ppb	0.4446	4.159
V_3093	i	*****	ppb	-----	-----
Zn2025		41.97	ppb	0.1499	0.3571
Zn2062		42.10	ppb	0.2345	0.5572
Sc3613		36,554	Cts/S	89.695	0.24538

**MDL 7**

Acquire Date: 2/22/2023 12:31:00PM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		4.935	ppb	0.5917	11.99
Ag3382		4.714	ppb	0.1283	2.721
Al1670		64.32	ppb	0.5939	0.9234
Al3092	i	*****	ppb	-----	-----
As1890		9.133	ppb	0.4502	4.929
As1937		6.675	ppb	0.1720	2.577
Ba2335		2.019	ppb	0.06847	3.391
Ba4554		2.083	ppb	0.04299	2.064

**MDL 7**

Acquire Date: 2/22/2023 12:31:00PM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Be2348		0.8576	ppb	0.02561	2.986
Be3130		0.9490	ppb	0.006187	0.6520
Ca3179		89.46	ppb	1.069	1.195
Ca3933		96.38	ppb	0.1774	0.1840
Cd2144		1.051	ppb	0.05328	5.071
Cd2288		0.9609	ppb	0.05343	5.560
Co2286		4.870	ppb	0.2983	6.125
Co2388		2.016	ppb	0.4045	20.07
Cr2677		2.090	ppb	0.4501	21.54
Cr2835		2.100	ppb	0.1084	5.163
Cu3247		9.804	ppb	0.1933	1.972
Cu3273		9.839	ppb	0.1406	1.429
Fe2382		81.16	ppb	1.072	1.321
Fe2599		79.63	ppb	0.1415	0.1778
K_7664		106.9	ppb	0.06735	0.06298
K_7698		92.57	ppb	0.9139	0.9872
Mg2795		51.81	ppb	0.01051	0.02028
Mg2802		50.68	ppb	0.03980	0.07854
Mg2852		50.84	ppb	0.09254	0.1820
Mn2576		2.413	ppb	0.03888	1.611
Mn2593		2.546	ppb	0.01216	0.4776
Na5895		248.6	ppb	0.4726	0.1901
Ni2316		5.623	ppb	0.4594	8.170
Ni3414		6.550	ppb	1.397	21.32
Pb2169		3.585	ppb	1.685	47.01
Pb2203		6.247	ppb	1.871	29.95
Pb2833		-4.924	ppb	9.114	185.1
Sb2068		8.865	ppb	0.3667	4.137
Sb2175		7.268	ppb	1.405	19.34
Se1960		8.364	ppb	1.013	12.11
Se2039		9.455	ppb	3.387	35.83
Tl1908		10.72	ppb	0.6726	6.275
Tl3519		5.005	ppb	16.96	338.9
V_2924		10.27	ppb	0.5638	5.491
V_3093	i	*****	ppb	-----	-----
Zn2025		41.28	ppb	0.09885	0.2395
Zn2062		41.32	ppb	0.05539	0.1340
Sc3613		36,398	Cts/S	102.13	0.28059

**MDL 8**

Acquire Date: 2/22/2023 12:34:48PM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		5.479	ppb	0.6563	11.98
Ag3382		5.447	ppb	0.5761	10.58
Al1670		55.98	ppb	0.4671	0.8344
Al3092	i	*****	ppb	-----	-----
As1890		8.334	ppb	0.3541	4.248
As1937		7.987	ppb	1.091	13.65
Ba2335		2.173	ppb	0.06615	3.045

**MDL 8**

Acquire Date: 2/22/2023 12:34:48PM

Sample Type: Unknown

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ba4554		2.157	ppb	0.01105	0.5121
Be2348		0.9255	ppb	0.08159	8.816
Be3130		0.9721	ppb	0.007740	0.7962
Ca3179		56.45	ppb	0.2677	0.4741
Ca3933		59.64	ppb	0.06335	0.1062
Cd2144		1.096	ppb	0.02169	1.978
Cd2288		1.076	ppb	0.02689	2.498
Co2286		4.954	ppb	0.1863	3.760
Co2388		2.578	ppb	0.3577	13.87
Cr2677		1.736	ppb	0.06325	3.644
Cr2835		2.329	ppb	0.05473	2.350
Cu3247		10.20	ppb	0.5362	5.255
Cu3273		9.935	ppb	1.039	10.46
Fe2382		69.85	ppb	0.6321	0.9050
Fe2599		69.68	ppb	0.2621	0.3762
K_7664		51.44	ppb	0.6109	1.188
K_7698		39.00	ppb	0.6809	1.746
Mg2795		53.07	ppb	0.1119	0.2108
Mg2802		52.49	ppb	0.2610	0.4972
Mg2852		52.28	ppb	0.1480	0.2830
Mn2576		2.267	ppb	0.05015	2.212
Mn2593		2.400	ppb	0.02211	0.9211
Na5895		47.35	ppb	0.2593	0.5475
Ni2316		5.566	ppb	0.2941	5.284
Ni3414		5.679	ppb	0.5337	9.398
Pb2169		4.404	ppb	2.271	51.56
Pb2203		4.723	ppb	0.6293	13.32
Pb2833		0.8717	ppb	5.040	578.3
Sb2068		6.974	ppb	1.370	19.64
Sb2175		7.496	ppb	1.176	15.69
Se1960		8.784	ppb	1.573	17.91
Se2039		6.996	ppb	3.747	53.56
Tl1908		10.55	ppb	0.2837	2.688
Tl3519		23.38	ppb	7.598	32.50
V_2924		10.97	ppb	0.1133	1.032
V_3093	i	*****	ppb	-----	-----
Zn2025		41.14	ppb	0.2098	0.5099
Zn2062		41.32	ppb	0.2411	0.5834
Sc3613		36,223	Cts/S	66.231	0.18284

**ICV/CCV**

Acquire Date: 2/22/2023 12:38:33PM

Sample Type: QC

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		977.4	ppb	2.020	0.2067
Ag3382		934.5	ppb	2.877	0.3079
Al1670		1,038	ppb	1.619	0.1560
Al3092	iF	*****	ppb	-----	-----
As1890		983.8	ppb	4.647	0.4724
As1937		994.7	ppb	1.919	0.1929



**ICV/CCV**

Acquire Date: 2/22/2023 12:38:33PM

Sample Type: QC

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ba2335		995.2	ppb	1.725	0.1733
Ba4554		1,008	ppb	7.048	0.6994
Be2348		965.4	ppb	3.223	0.3338
Be3130		989.1	ppb	2.856	0.2887
Ca3179		1,029	ppb	1.902	0.1848
Ca3933		1,051	ppb	5.966	0.5676
Cd2144		1,010	ppb	0.8742	0.08658
Cd2288		999.2	ppb	1.100	0.1101
Co2286		996.0	ppb	1.414	0.1420
Co2388		1,005	ppb	4.829	0.4807
Cr2677		1,008	ppb	4.415	0.4378
Cr2835		1,010	ppb	3.988	0.3949
Cu3247		1,029	ppb	4.534	0.4408
Cu3273		1,025	ppb	5.907	0.5763
Fe2382		1,048	ppb	5.732	0.5471
Fe2599		1,050	ppb	2.764	0.2633
K_7664		1,039	ppb	3.349	0.3223
K_7698		1,032	ppb	3.743	0.3628
Mg2795		1,023	ppb	3.375	0.3298
Mg2802		1,024	ppb	3.008	0.2939
Mg2852		1,014	ppb	3.767	0.3716
Mn2576		1,029	ppb	2.640	0.2565
Mn2593		1,022	ppb	3.569	0.3493
Na5895		927.8	ppb	3.152	0.3397
Ni2316		1,029	ppb	2.418	0.2349
Ni3414		1,012	ppb	9.772	0.9655
Pb2169		1,022	ppb	1.466	0.1434
Pb2203		1,009	ppb	3.514	0.3484
Pb2833		1,016	ppb	20.41	2.008
Sb2068		976.5	ppb	0.4099	0.04198
Sb2175		973.5	ppb	4.218	0.4333
Se1960		1,005	ppb	0.9206	0.09164
Se2039		1,006	ppb	5.893	0.5860
Ti1908		1,034	ppb	3.582	0.3464
Ti3519		964.3	ppb	21.70	2.250
V_2924		1,049	ppb	3.474	0.3312
V_3093	i	*****	ppb	-----	-----
Zn2025		1,005	ppb	1.518	0.1510
Zn2062		998.9	ppb	0.4447	0.04451
Sc3613		35,267	Cts/S	124.17	0.35208

**ICB/CCB**

Acquire Date: 2/22/2023 12:42:11PM

Sample Type: QC

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.8659	ppb	0.3669	42.38
Ag3382		-0.4655	ppb	0.5605	120.4
Al1670		0.6430	ppb	0.1645	25.58
Al3092	i	*****	ppb	-----	-----
As1890		-1.444	ppb	1.621	112.2

**ICB/CCB**

Acquire Date: 2/22/2023 12:42:11PM

Sample Type: QC

Method Name: Niosh 7303

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
As1937		-1.968	ppb	0.8492	43.15
Ba2335		0.07676	ppb	0.07556	98.44
Ba4554		0.02794	ppb	0.009795	35.06
Be2348		0.04344	ppb	0.01750	40.27
Be3130		0.0008560	ppb	0.003583	418.7
Ca3179		-0.8348	ppb	0.4908	58.79
Ca3933		-1.564	ppb	0.02379	1.521
Cd2144		0.008570	ppb	0.05744	670.3
Cd2288		-0.06691	ppb	0.04667	69.75
Co2286		0.01692	ppb	0.06743	398.7
Co2388		0.4391	ppb	0.4005	91.21
Cr2677		-0.2463	ppb	0.1343	54.53
Cr2835		-0.05345	ppb	0.3794	709.9
Cu3247		-0.3269	ppb	0.1672	51.14
Cu3273		0.2773	ppb	0.8360	301.5
Fe2382		0.7978	ppb	0.1168	14.64
Fe2599		0.2194	ppb	0.4970	226.5
K_7664		-1.717	ppb	0.4057	23.63
K_7698		0.4752	ppb	1.393	293.2
Mg2795		-0.1393	ppb	0.01836	13.18
Mg2802		-0.1462	ppb	0.03532	24.15
Mg2852		-0.07540	ppb	0.1846	244.8
Mn2576		0.07244	ppb	0.05886	81.25
Mn2593		0.05611	ppb	0.02557	45.56
Na5895		-1.043	ppb	0.08603	8.247
Ni2316		-0.2022	ppb	0.3551	175.6
Ni3414		0.6336	ppb	0.9720	153.4
Pb2169		-0.9667	ppb	1.091	112.9
Pb2203		0.1177	ppb	1.490	1,266
Pb2833		-10.23	ppb	7.258	70.98
Sb2068		0.9107	ppb	1.231	135.2
Sb2175		0.02270	ppb	1.414	6,228
Se1960		0.1905	ppb	2.538	1,332
Se2039		6.774	ppb	2.253	33.26
Ti1908		-0.6179	ppb	0.7475	121.0
Ti3519		5.408	ppb	8.666	160.3
V_2924		0.3107	ppb	0.5161	166.1
V_3093	i	*****	ppb	----	----
Zn2025		-0.04127	ppb	0.01986	48.11
Zn2062		-0.01409	ppb	0.08057	572.0
Sc3613		35,020	Cts/S	437.18	1.2484

## ICP-OES Raw Data Coversheet

Doc. No.: RD03

Rev.:G

Effective Date: 08-03-20

Instrument O/T

Analyst(s):	<u>LMP</u>		Analysis Date(s):	<u>10/12/23</u>	
EA Project #s:	<u>1023-068 NIOSH 7303 MDLs for Au, Sn, Mo</u>				
Analytes & λ's:	<u>Be, Cd, Cr, Mn, Ba, Pb, Ni, Co, As, Sb, Cu, Ti, V, Zn, Au, Sn, Mo, Fe, Ca, Al</u>				
Method:	<u>6010</u>	Internal Std ID:	<u>ES-1028</u>	Conc:	<u>1ppm SC</u>
Exp:	<u>4/11/24</u>				
Diluent:	<u>50</u>	mL HNO <sub>3</sub>	ID#	<u>63013</u>	Exp: <u>8/24</u>
	<u>50</u>	mL HCl	ID#	<u>62225</u>	Exp: <u>10/24</u>
		mL HF	ID#		Exp: <u></u>
DILUTED TO <u>1000</u> mL WITH DI WATER					

CalBlk/ICB/CCB: Diluent

EA ID'S	Std ID's:	ICV/CCV ID:
	Conc.'s:	Conc:
	Exp Dates:	Exp Date:

Use table below for freshly prepared standards (NO ID's):

Calibration Standards - Made from Working Std EA ID#: F0864+① (Stock Concentration: 100ppm  
Exp Date: 6/24) and brought up with Diluent

	Final Conc. (ppb)	Amount WS (μL)	Pipette # & Exp:	Final Vol (mL)	Pipette # & Exp:	Analyst	Date	Exp.:
Standard 1	1	50 Std 9	132 12/11/23	50	NA	LMP	10/12/23	10/13/23
Standard 2	2	100	1					
Standard 3	5	250	134 10/14/23					
Standard 4	10	500						
Standard 5	40	1mL Std 10						
Standard 6	50	1.25mL	143 10/20/23					
Standard 7	100	2.5mL						
Standard 8	200	5mL						
Standard 9	1000	500+50+50	134 10/14/23					
Standard 10	2000	1000+100+100	134 10/14/23					

Secondary Standard - Made from Working Std EA ID#: F0866+② (Stock Concentration: 10ppm  
Exp Date: 4/25) and brought up with Diluent

	Final Conc. (ppb)	Amount WS (μL)	Pipette # & Exp:	Final Vol (mL)	Pipette # & Exp:	Analyst	Date	Exp.:
ICV/CCV	1000	5mL+5mL	143 10/20/23	50	NA	LMP	10/12/23	10/13/23

ICS's-Made from Stock Std ICS-A ID# (F0849 Exp: 4/13/24) & Metals Std ID# (F0866+②)  
Conc: 10ppm Exp: 4/25) brought up with Diluent

	Conc.	Amount WS (μL)	Pipette # & Exp:	Final Vol (mL)	Pipette # & Exp:	Analyst	Date	Exp.:
ICS-A	Multi	50	132 12/11/23	10	143 10/20/23	LMP	10/12/23	10/13/23
	Multi	1						
ICS-AB	100ppb	100						

① 1000ppm Au Std (F0835 exp 9/39) and 1000ppm Sn Std (F0716 exp: 4/27) w/ pip: 132

Controlled Document ② 1000ppm Au Std (F0847 exp: 4/12/24) made into a 10ppm Au mix exp: 12/11/23

Confidential Business Information/Property of Enthalpy Analytical by adding 100μL (pip: 132 exp: 12/11/23) + 9.9 diluent + pip: 143 exp: 10/20/23

③ EELMP  
10/12/23

# ICP-OES Raw Data Coversheet

## Instrument O / T

Doc. No.: RD03  
Rev.: G  
Effective Date: 08-03-20

Post Dig Matrix Spike Samples - Diluted with Diluent (Metals Mix ID# <u>FO8466+6</u> ) Conc: <u>10ppm</u> Exp: <u>4/25</u> )								
Sample ID	Dilution Factor of Field Sample	Aliquot of Sample (mL)	Final Conc. (ppb)	Amount of Spike Added (μL)	Pipette # & Exp:	Final Vol (mL)	Pipette # & Exp:	Analyst
1023-0168.1	—	9.8	100	200 ②	132 12/11/23	10	143 10/20/23	LMP
						10		
						10		
						10		
						10		
						10		
						10		
						10		
						10		
						10		

Sample Dilution Tracker - Diluted with Diluent						
Sample ID (s)	Dilution Factor of Sample	Aliquot of Sample (mL)	Pipette # & Exp:	Final Vol (mL)	Pipette # & Exp:	Analyst

### Comments:

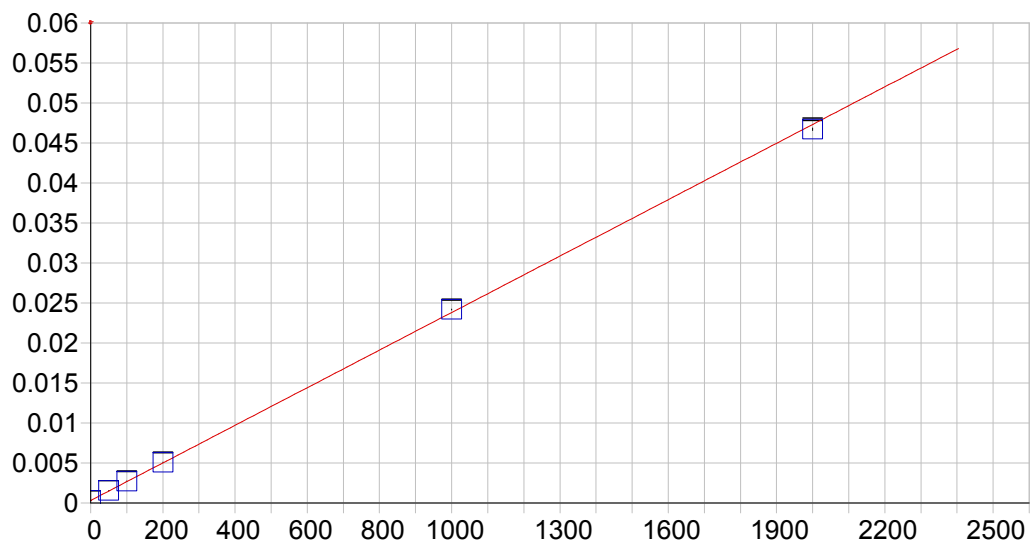
② 10 ppm Au made by adding 100 μL of 1000 ppm Au std (FO8477) (exp: 4/12/24)  
w/pip: 132 exp: 12/11/23 and 9.9 mL of diluent w/pip: 143 exp: 10/20/23

100 μL of FO8466 + 100 μL of 10ppm Au were spiked into MS. Hence,  
200 μL total. LMP 10/12/23

LCS was inadvertently prepped at 400 ppb. LMP 10/12/23



	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status
	Al 167.079 {502}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000309	0.000024	0.000000	1.000000	0.999852	0.000006	0.407780	1.359267	OK
	As 189.042 {479}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	-0.000025	0.000012	0.000000	1.000000	0.999971	0.000001	1.505043	5.016809	OK
	As 193.759 {474}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	-0.000019	0.000014	0.000000	1.000000	0.999966	0.000001	1.579322	5.264405	OK
	Au 208.209 {462}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000039	0.000024	0.000000	1.000000	0.999957	0.000003	1.259469	4.198230	OK
	Au 242.795 {139}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000033	0.000101	0.000000	1.000000	0.999980	0.000009	1.066987	3.556623	OK
	Au 267.595 {126}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000316	0.000082	0.000000	1.000000	0.999948	0.000011	1.690653	5.635510	OK
	Ba 233.527 {445}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	-0.000030	0.000259	0.000000	1.000000	0.999949	0.000008	0.112756	0.375853	OK
	Ba 455.403 { 74}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.013880	0.021670	0.000000	1.000000	0.999938	0.000703	0.025074	0.083579	OK
	Be 313.042 {108}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.004134	0.014790	0.000000	1.000000	0.999965	0.000251	0.014260	0.047532	OK
	Ca 317.933 {106}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.002434	0.000484	0.000000	1.000000	0.999972	0.000057	0.468196	1.560654	OK
	Ca 393.366 { 86}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.331763	0.057682	0.000000	1.000000	0.999608	0.025581	0.005949	0.019829	OK
	Cd 214.438 {457}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000037	0.000628	0.000000	1.000000	0.999947	0.000013	0.052299	0.174330	OK
	Cd 228.802 {447}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000127	0.000248	0.000000	1.000000	0.999959	0.000005	0.155575	0.518584	OK
	Co 228.616 {448}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	-0.000094	0.000134	0.000000	1.000000	0.999954	0.000006	0.229868	0.766226	OK
	Cr 267.716 {126}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000403	0.000330	0.000000	1.000000	0.999955	0.000009	0.406791	1.355970	OK
	Cu 324.754 {104}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.003320	0.000692	0.000000	1.000000	0.999973	0.000034	0.330948	1.103159	OK
	Cu 327.396 {103}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	-0.003379	0.000402	0.000000	1.000000	0.999968	0.000022	0.623817	2.079389	OK
	Fe 238.204 {142}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000128	0.000187	0.000000	1.000000	0.999961	0.000026	0.425169	1.417230	OK
	Fe 259.940 {130}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000084	0.000310	0.000000	1.000000	0.999957	0.000046	0.368149	1.227165	OK
	Mn 257.610 {131}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000372	0.002259	0.000000	1.000000	0.999938	0.000074	0.055496	0.184987	OK
	Mo 202.030 {467}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000047	0.000092	0.000000	1.000000	0.999973	0.000009	0.288105	0.960351	OK
	Mo 204.598 {465}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	-0.000075	0.000066	0.000000	1.000000	0.999969	0.000007	0.423283	1.410943	OK
	Mo 281.615 {120}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	-0.003603	0.000160	0.000000	1.000000	0.999895	0.000016	0.966215	3.220717	OK
	Mo 284.823 {118}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	-0.000079	0.000101	0.000000	1.000000	0.999974	0.000010	1.401359	4.671196	OK
	Ni 231.604 {446}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	-0.000131	0.000115	0.000000	1.000000	0.999965	0.000004	0.309724	1.032412	OK
	Pb 220.353 {453}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000050	0.000039	0.000000	1.000000	0.999960	0.000002	1.521786	5.072620	OK
	Sb 206.833 {463}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000041	0.000023	0.000000	1.000000	0.999983	0.000001	1.315162	4.383872	OK
	Sb 217.581 {455}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000117	0.000022	0.000000	1.000000	0.999879	0.000002	1.581388	5.271295	OK
	Sc 361.384 { 93}* Sc 361.384 { 93}	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000	Wamin
	Sn 189.989 {478}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	-0.000001	0.000038	0.000000	1.000000	0.999972	0.000004	0.505643	1.685475	OK
	Sn 235.484 {143}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000361	0.000011	0.000000	1.000000	0.999960	0.000001	9.087030	30.290099	OK
	Sn 283.999 {119}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000247	0.000037	0.000000	1.000000	0.999971	0.000004	3.743011	12.476704	OK
	Tl 190.856 {477}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	-0.000142	0.000022	0.000000	1.000000	0.999971	0.000001	1.016430	3.388101	OK
	V 292.402 {115}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000037	0.000379	0.000000	1.000000	0.999968	0.000020	0.419492	1.398306	OK
	Zn 202.548 {467}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000235	0.000287	0.000000	1.000000	0.999970	0.000031	0.076264	0.254212	OK
	Zn 206.200 {464}	10/12/2023 11:54:26	10/12/2023 11:54:26	Linear	1/Conc	0.000188	0.000205	0.000000	1.000000	0.999972	0.000021	0.116742	0.389139	OK



AI 167.079 {502}

Date of Fit: 10/12/2023 11:54:26

Type of Fit: Linear

Weighting: 1/Conc

A0 (Offset): 0.000309

Re-Slope: 1.000000

A1 (Gain): 0.000024

Y-int: 0.000000

A2 (Curvature): 0.000000

n (Exponent): 1.000000

Correlation: 0.999852

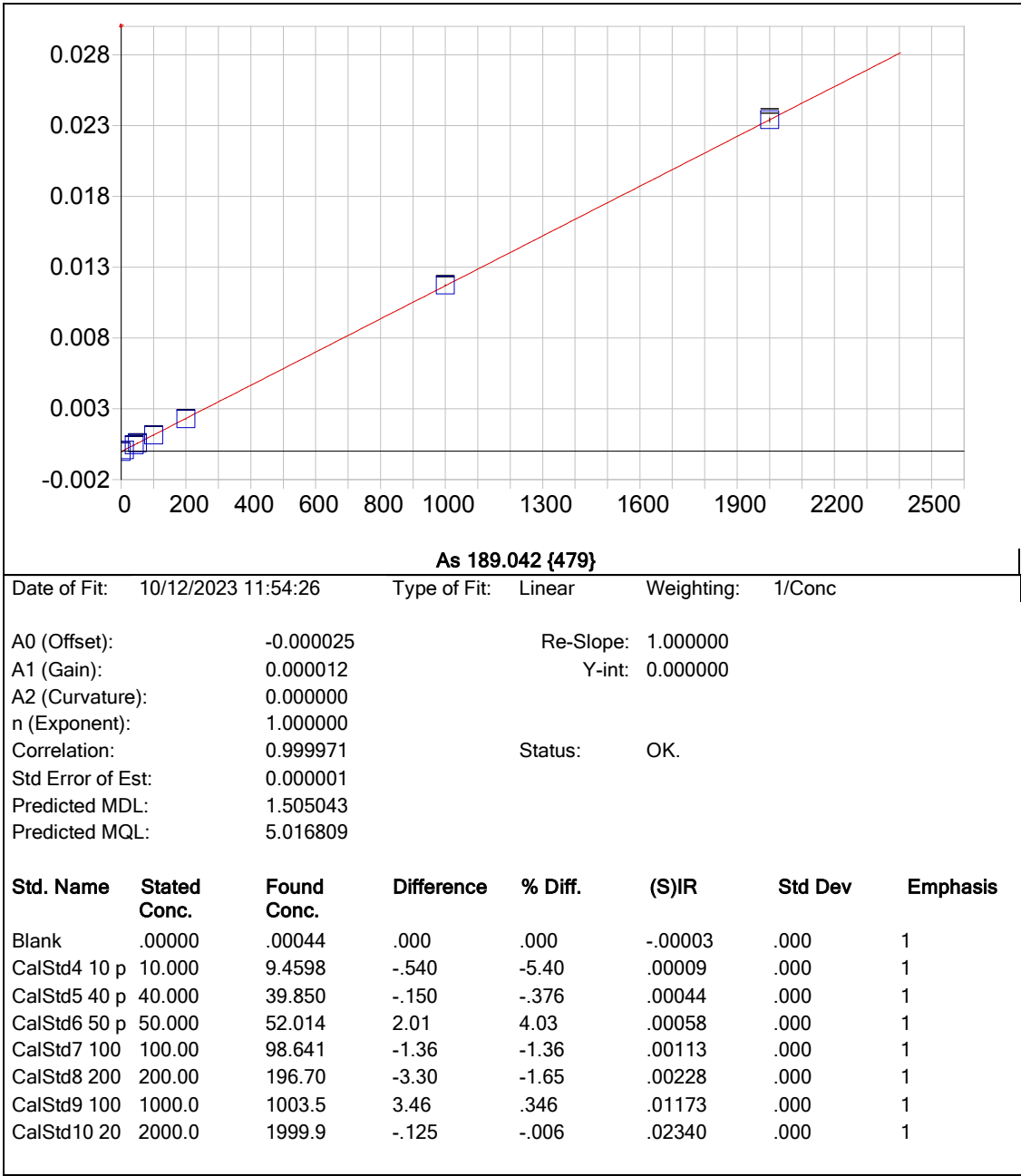
Status: OK.

Std Error of Est: 0.000006

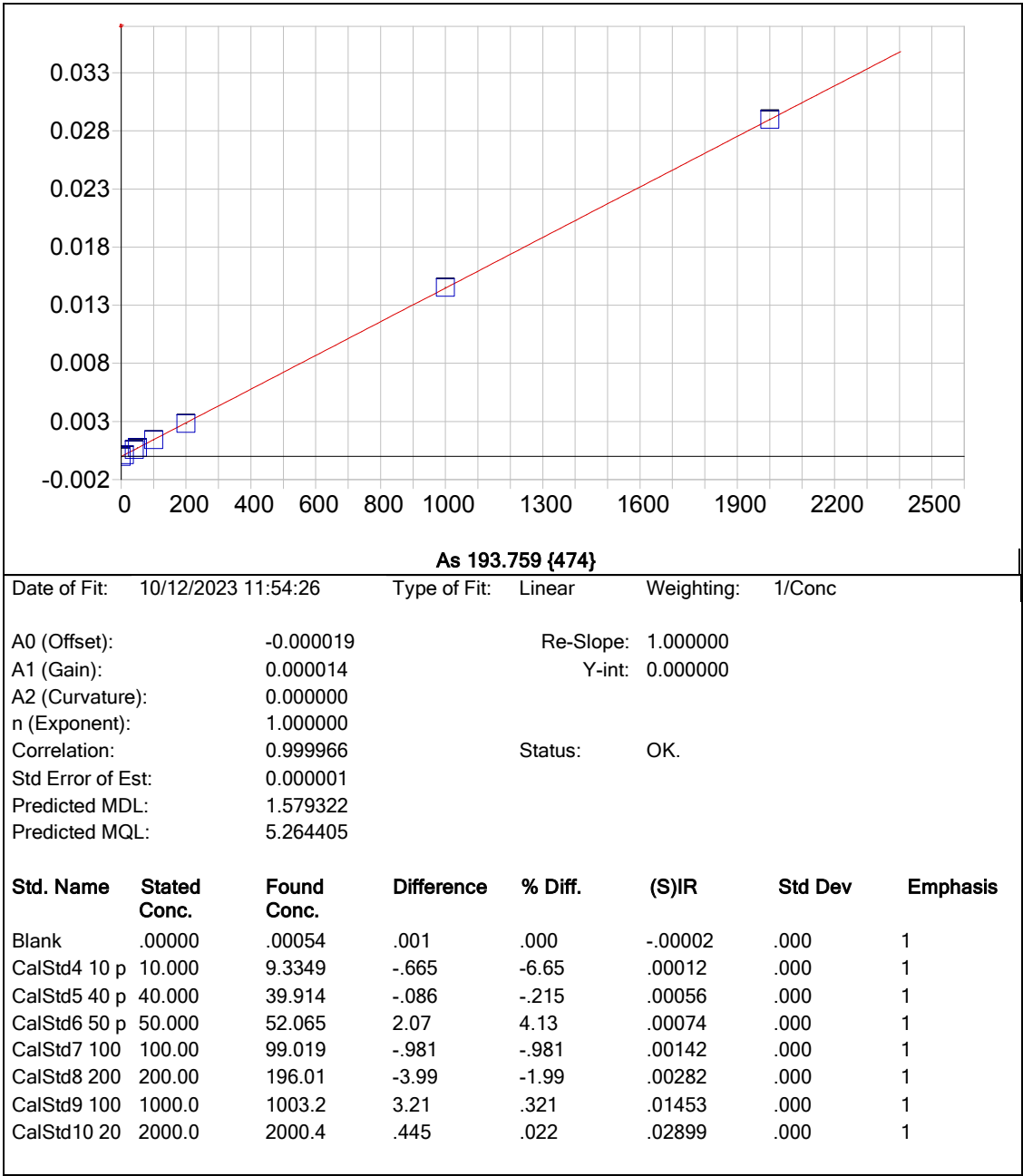
Predicted MDL: 0.407780

Predicted MQL: 1.359267

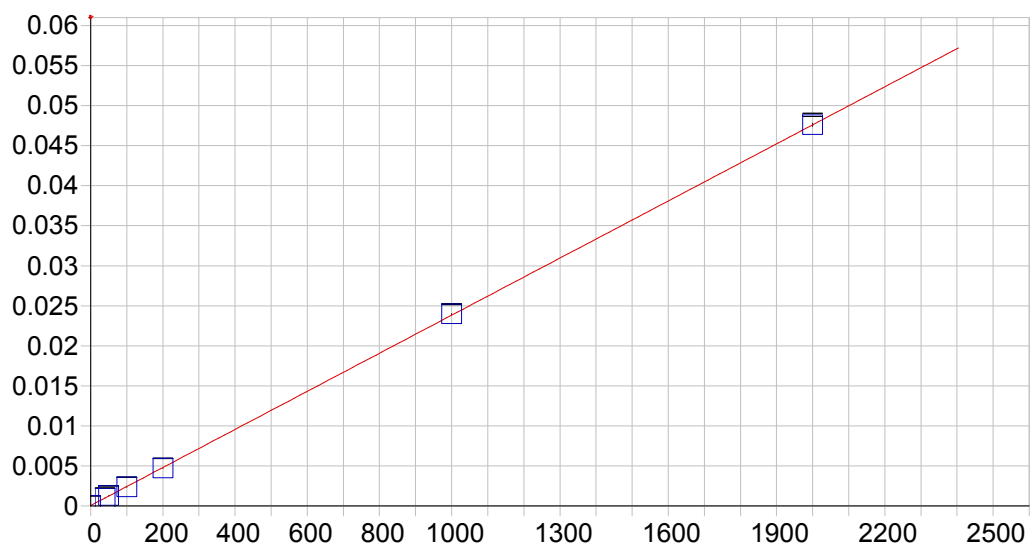
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00611	-.006	.000	.00031	.000	1
CalStd6 50 p	50.000	53.875	3.87	7.75	.00158	.000	1
CalStd7 100	100.00	102.47	2.47	2.47	.00272	.000	1
CalStd8 200	200.00	203.41	3.41	1.71	.00509	.000	1
CalStd9 100	1000.0	1015.7	15.7	1.57	.02418	.000	1
CalStd10 20	2000.0	1974.6	-25.4	-1.27	.04672	.000	1









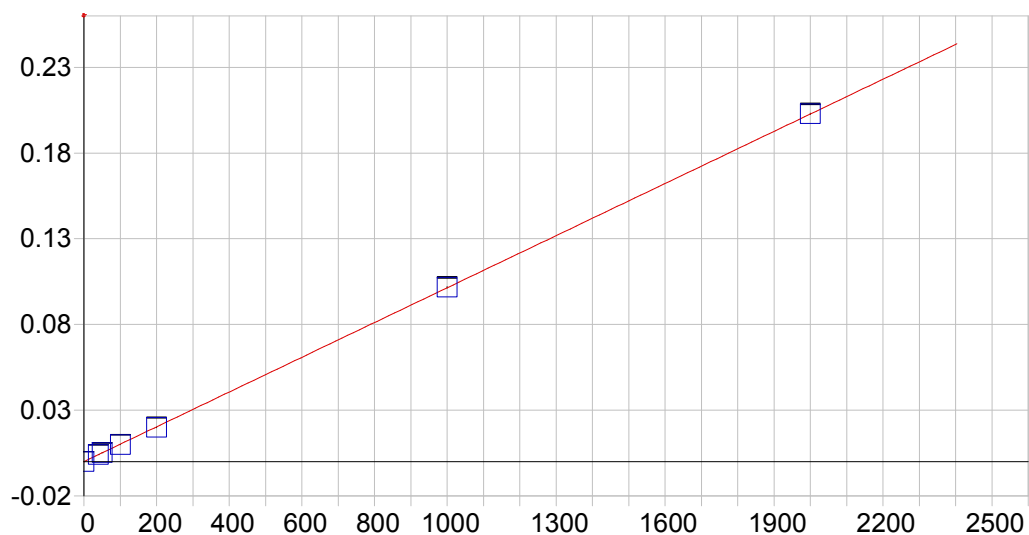


### Au 208.209 {462}

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000039 Re-Slope: 1.000000  
 A1 (Gain): 0.000024 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999957 Status: OK.  
 Std Error of Est: 0.000003  
 Predicted MDL: 1.259469  
 Predicted MQL: 4.198230

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00082	.001	.000	.00004	.000	1
CalStd5 40 p	40.000	39.457	-.543	-1.36	.00098	.000	1
CalStd6 50 p	50.000	51.902	1.90	3.80	.00127	.000	1
CalStd7 100	100.00	96.933	-3.07	-3.07	.00234	.000	1
CalStd8 200	200.00	195.96	-4.04	-2.02	.00470	.000	1
CalStd9 100	1000.0	1006.0	6.01	.601	.02397	.000	1
CalStd10 20	2000.0	1999.7	-.264	-.013	.04760	.000	1

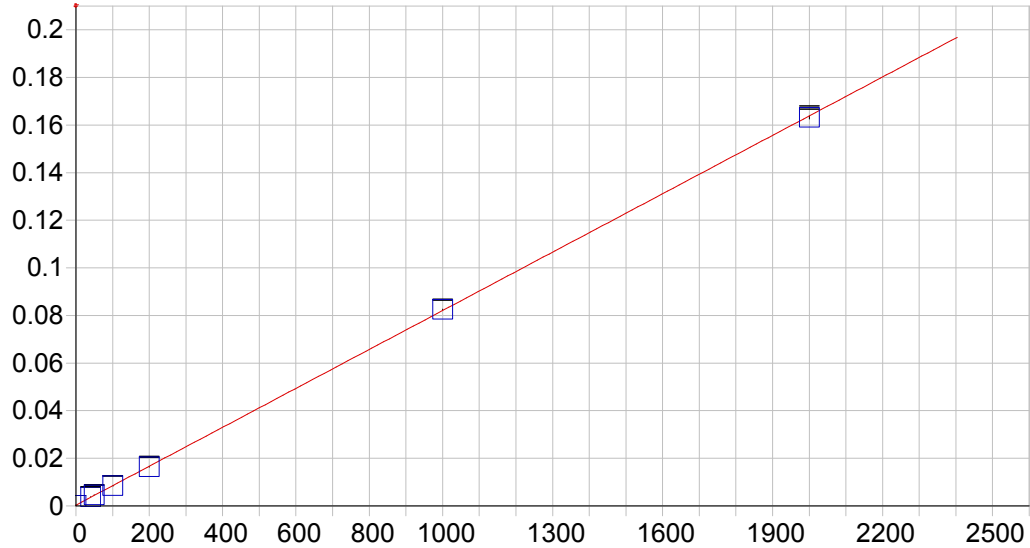


### Au 242.795 {139}

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000033 Re-Slope: 1.000000  
 A1 (Gain): 0.000101 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999980 Status: OK.  
 Std Error of Est: 0.000009  
 Predicted MDL: 1.066987  
 Predicted MQL: 3.556623

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00126	.001	.000	.00003	.000	1
CalStd5 40 p	40.000	39.687	-.313	-.784	.00406	.000	1
CalStd6 50 p	50.000	50.647	.647	1.29	.00517	.000	1
CalStd7 100	100.00	97.312	-2.69	-2.69	.00990	.000	1
CalStd8 200	200.00	197.20	-2.80	-1.40	.02002	.000	1
CalStd9 100	1000.0	1003.6	3.62	.362	.10177	.000	1
CalStd10 20	2000.0	2001.5	1.53	.077	.20292	.000	1

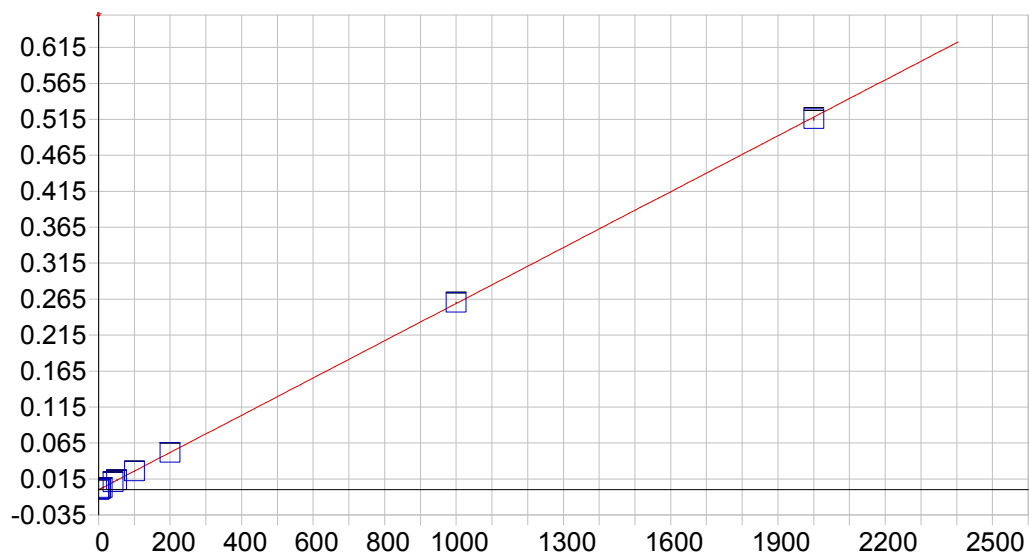


#### Au 267.595 {126}

Date of Fit: 10/12/2023 11:54:26      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	0.000316	Re-Slope:	1.000000
A1 (Gain):	0.000082	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999948	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	1.690653		
Predicted MQL:	5.635510		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00391	-.004	.000	.00032	.000	1
CalStd5 40 p	40.000	42.362	2.36	5.90	.00378	.000	1
CalStd6 50 p	50.000	52.515	2.52	5.03	.00461	.000	1
CalStd7 100	100.00	99.969	-.031	-.031	.00849	.000	1
CalStd8 200	200.00	197.47	-2.53	-1.27	.01646	.000	1
CalStd9 100	1000.0	1005.1	5.08	.508	.08250	.000	1
CalStd10 20	2000.0	1992.6	-7.39	-.369	.16325	.001	1

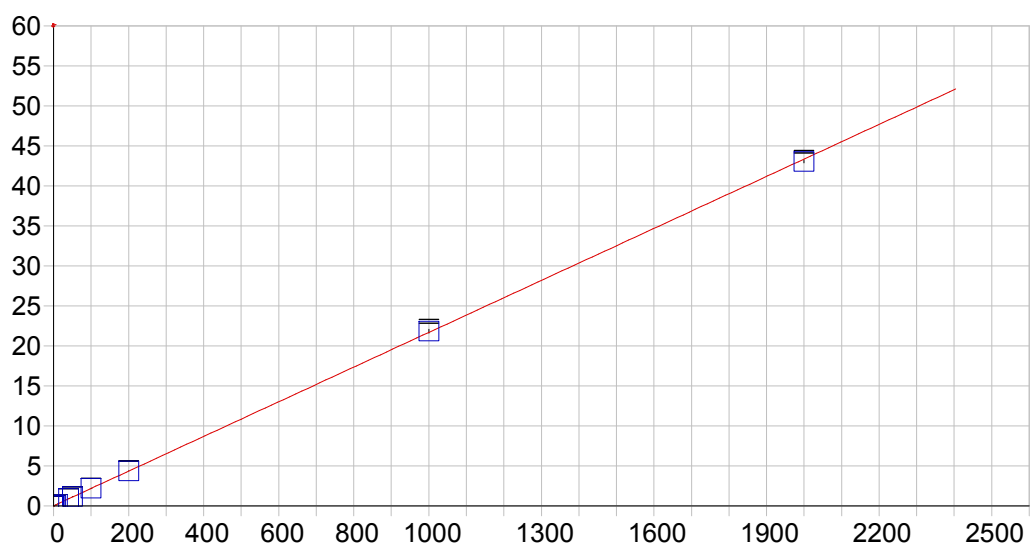


**Ba 233.527 {445}**

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000030 Re-Slope: 1.000000  
 A1 (Gain): 0.000259 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999949 Status: OK.  
 Std Error of Est: 0.000008  
 Predicted MDL: 0.112756  
 Predicted MQL: 0.375853

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00073	-.001	.000	-.00003	.000	1
CalStd2 2 pp	2.0000	2.2923	.292	14.6	.00056	.000	1
CalStd3 5 pp	5.0000	5.5211	.521	10.4	.00140	.000	1
CalStd4 10 p	10.000	10.436	.436	4.36	.00267	.000	1
CalStd5 40 p	40.000	41.271	1.27	3.18	.01066	.000	1
CalStd6 50 p	50.000	52.355	2.36	4.71	.01353	.000	1
CalStd7 100	100.00	99.524	-.476	-.476	.02575	.000	1
CalStd8 200	200.00	199.16	-.838	-.419	.05156	.000	1
CalStd9 100	1000.0	1005.7	5.66	.566	.26048	.000	1
CalStd10 20	2000.0	1990.8	-9.22	-.461	.51567	.002	1

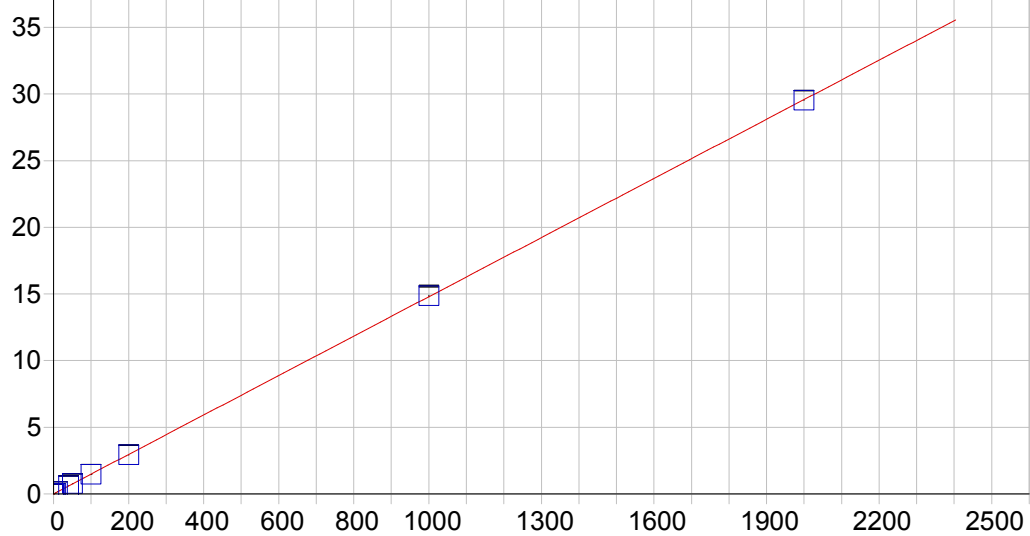


**Ba 455.403 { 74}**

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.013880 Re-Slope: 1.000000  
 A1 (Gain): 0.021670 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999938 Status: OK.  
 Std Error of Est: 0.000703  
 Predicted MDL: 0.025074  
 Predicted MQL: 0.083579

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00056	-.001	.000	.01387	.001	1
CalStd2 2 pp	2.0000	2.0974	.097	4.87	.05933	.001	1
CalStd3 5 pp	5.0000	5.4227	.423	8.45	.13139	.000	1
CalStd4 10 p	10.000	10.439	.439	4.39	.24011	.001	1
CalStd5 40 p	40.000	41.434	1.43	3.58	.91177	.005	1
CalStd6 50 p	50.000	52.614	2.61	5.23	1.1540	.006	1
CalStd7 100	100.00	100.79	.792	.792	2.1981	.009	1
CalStd8 200	200.00	201.08	1.08	.541	4.3714	.021	1
CalStd9 100	1000.0	1007.6	7.56	.756	21.848	.235	1
CalStd10 20	2000.0	1985.6	-14.4	-.722	43.042	.144	1

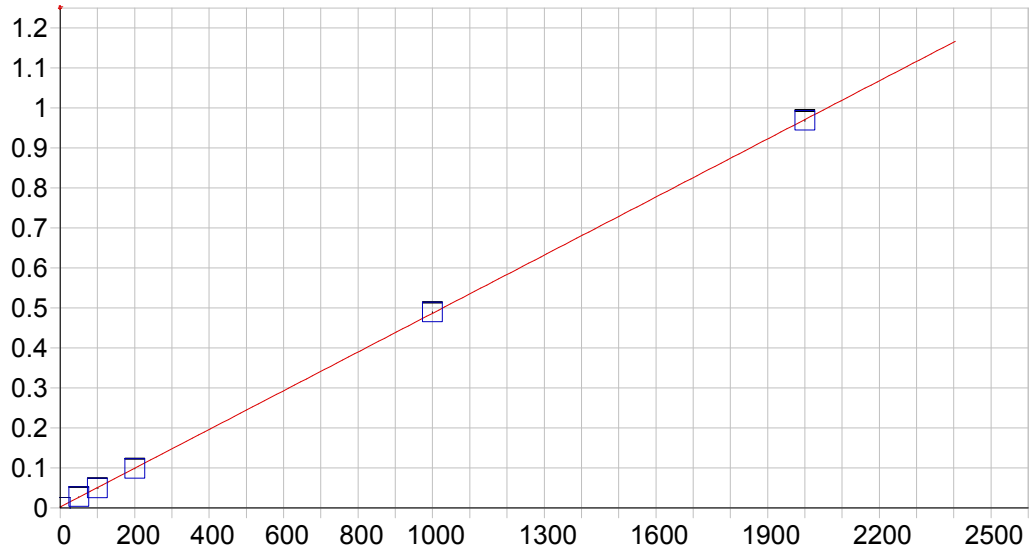


**Be 313.042 {108}**

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.004134 Re-Slope: 1.000000  
 A1 (Gain): 0.014790 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999965 Status: OK.  
 Std Error of Est: 0.000251  
 Predicted MDL: 0.014260  
 Predicted MQL: 0.047532

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00030	-.000	.000	.00413	.000	1
CalStd1 1 pp	1.0000	1.0928	.093	9.28	.02030	.000	1
CalStd2 2 pp	2.0000	2.1133	.113	5.67	.03539	.000	1
CalStd3 5 pp	5.0000	5.3449	.345	6.90	.08318	.000	1
CalStd4 10 p	10.000	10.377	.377	3.77	.15761	.001	1
CalStd5 40 p	40.000	41.088	1.09	2.72	.61181	.000	1
CalStd6 50 p	50.000	51.906	1.91	3.81	.77181	.001	1
CalStd7 100	100.00	98.940	-1.06	-1.06	1.4674	.004	1
CalStd8 200	200.00	197.04	-2.96	-1.48	2.9184	.008	1
CalStd9 100	1000.0	1004.2	4.17	.417	14.856	.058	1
CalStd10 20	2000.0	1995.9	-4.08	-.204	29.523	.015	1

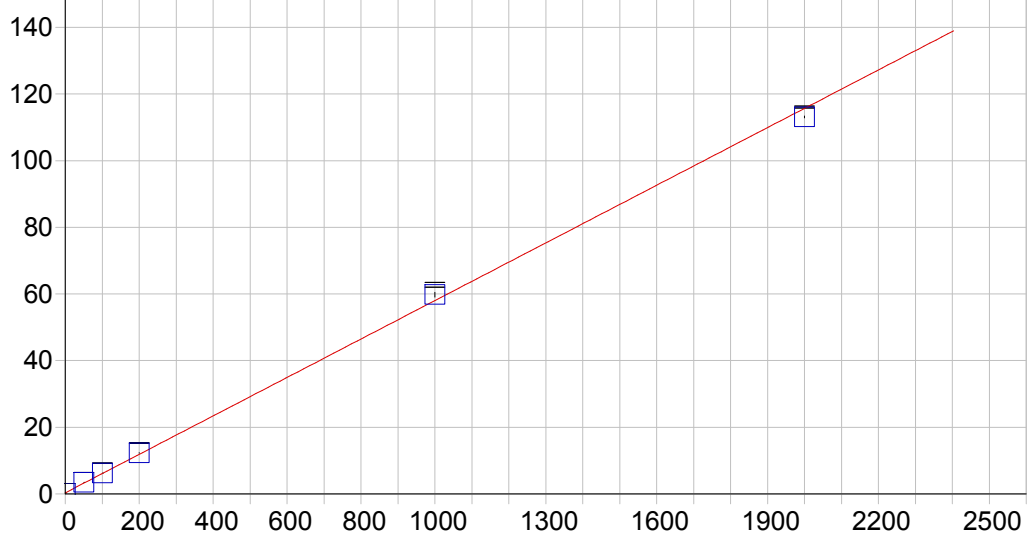


**Ca 317.933 {106}**

Date of Fit: 10/12/2023 11:54:26      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	0.002434	Re-Slope:	1.000000
A1 (Gain):	0.000484	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000057		
Predicted MDL:	0.468196		
Predicted MQL:	1.560654		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00096	-.001	.000	.00243	.000	1
CalStd6 50 p	50.000	52.183	2.18	4.37	.02771	.000	1
CalStd7 100	100.00	97.923	-2.08	-2.08	.04986	.000	1
CalStd8 200	200.00	198.58	-1.42	-.709	.09862	.001	1
CalStd9 100	1000.0	1005.5	5.52	.552	.48948	.001	1
CalStd10 20	2000.0	1995.8	-4.21	-.211	.96913	.002	1



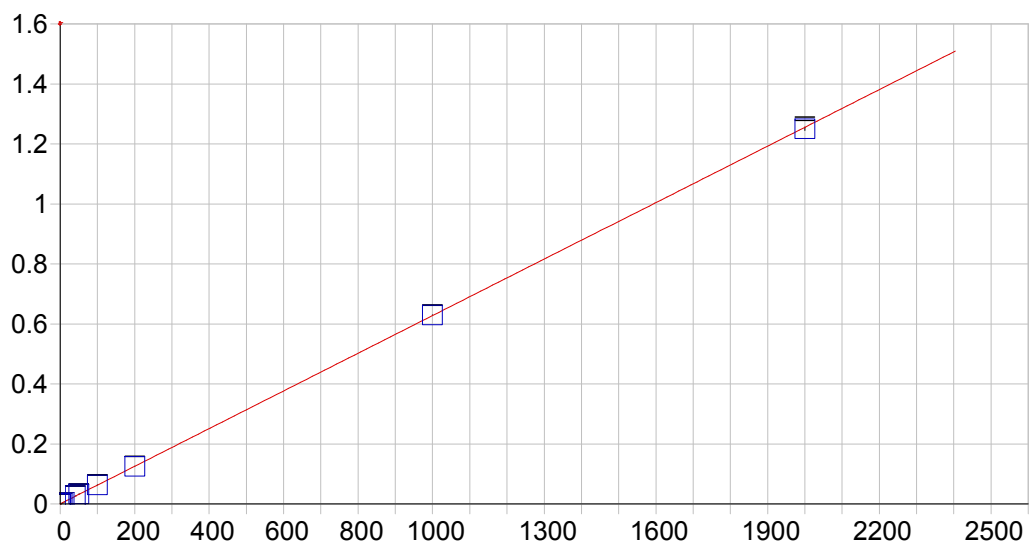
Ca 393.366 { 86}

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.331763 Re-Slope: 1.000000  
 A1 (Gain): 0.057682 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999608 Status: OK.  
 Std Error of Est: 0.025581  
 Predicted MDL: 0.005949  
 Predicted MQL: 0.019829

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00785	-.008	.000	.33131	.002	1
CalStd6 50 p	50.000	54.322	4.32	8.64	3.4652	.012	1
CalStd7 100	100.00	102.79	2.79	2.79	6.2611	.027	1
CalStd8 200	200.00	206.85	6.85	3.43	12.263	.112	1
CalStd9 100	1000.0	1030.7	30.7	3.07	59.785	.699	1
CalStd10 20	2000.0	1955.3	-44.7	-2.23	113.12	.273	1



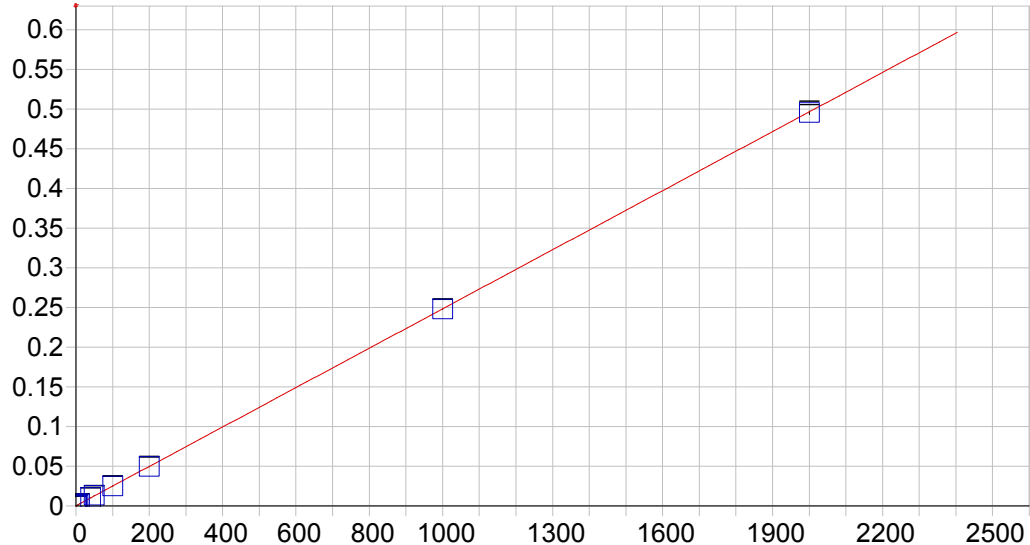


**Cd 214.438 {457}**

Date of Fit: 10/12/2023 11:54:26      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	0.000037	Re-Slope:	1.000000
A1 (Gain):	0.000628	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.052299		
Predicted MQL:	0.174330		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00037	-.000	.000	.00004	.000	1
CalStd1 1 pp	1.0000	1.0633	.063	6.33	.00070	.000	1
CalStd2 2 pp	2.0000	2.1568	.157	7.84	.00139	.000	1
CalStd3 5 pp	5.0000	5.3711	.371	7.42	.00341	.000	1
CalStd4 10 p	10.000	10.443	.443	4.43	.00659	.000	1
CalStd5 40 p	40.000	41.847	1.85	4.62	.02631	.000	1
CalStd6 50 p	50.000	52.885	2.88	5.77	.03323	.000	1
CalStd7 100	100.00	100.90	.897	.897	.06337	.001	1
CalStd8 200	200.00	199.25	-.746	-.373	.12511	.001	1
CalStd9 100	1000.0	1002.2	2.21	.221	.62913	.001	1
CalStd10 20	2000.0	1991.9	-8.12	-.406	1.2504	.006	1

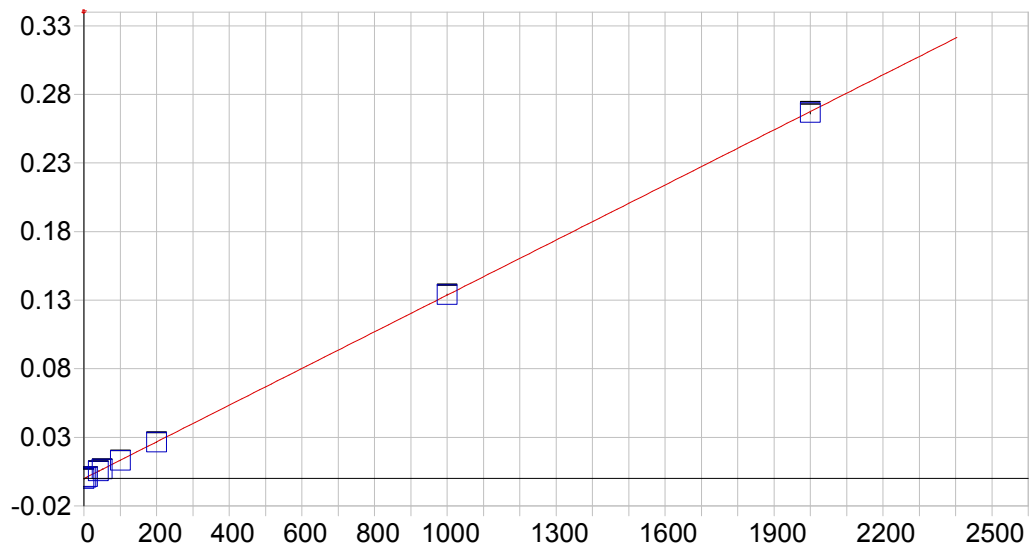


**Cd 228.802 {447}**

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000127 Re-Slope: 1.000000  
 A1 (Gain): 0.000248 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999959 Status: OK.  
 Std Error of Est: 0.000005  
 Predicted MDL: 0.155575  
 Predicted MQL: 0.518584

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00031	-.000	.000	.00013	.000	1
CalStd1 1 pp	1.0000	1.0798	.080	7.98	.00040	.000	1
CalStd2 2 pp	2.0000	2.0592	.059	2.96	.00064	.000	1
CalStd3 5 pp	5.0000	5.3896	.390	7.79	.00147	.000	1
CalStd4 10 p	10.000	10.232	.232	2.32	.00267	.000	1
CalStd5 40 p	40.000	41.792	1.79	4.48	.01050	.000	1
CalStd6 50 p	50.000	52.674	2.67	5.35	.01320	.000	1
CalStd7 100	100.00	100.44	.444	.444	.02506	.000	1
CalStd8 200	200.00	199.71	-.292	-.146	.04971	.000	1
CalStd9 100	1000.0	999.21	-.792	-.079	.24819	.000	1
CalStd10 20	2000.0	1995.4	-4.59	-.229	.49551	.002	1

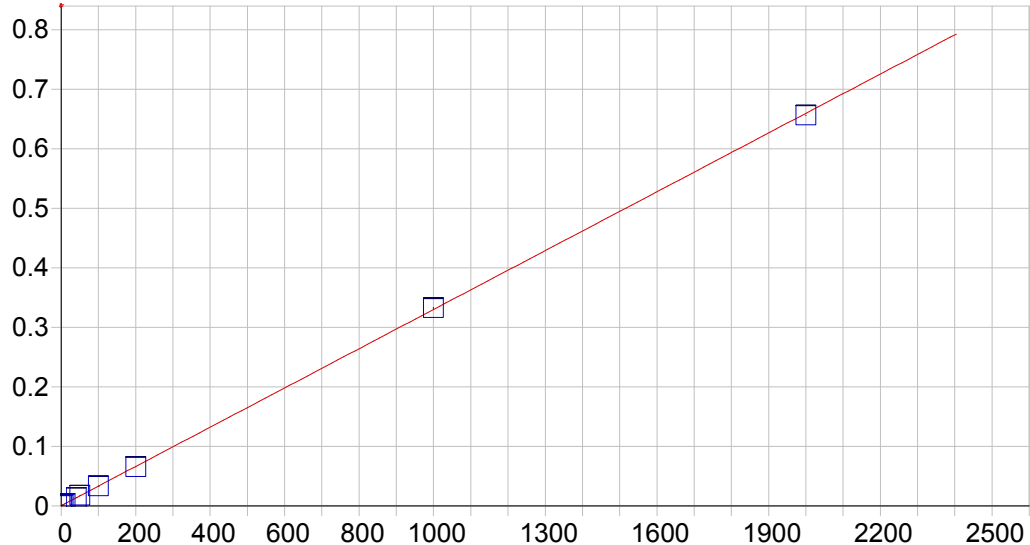


Co 228.616 {448}

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000094 Re-Slope: 1.000000  
 A1 (Gain): 0.000134 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999954 Status: OK.  
 Std Error of Est: 0.000006  
 Predicted MDL: 0.229868  
 Predicted MQL: 0.766226

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00129	-.001	.000	-.00009	.000	1
CalStd3 5 pp	5.0000	5.6349	.635	12.7	.00066	.000	1
CalStd4 10 p	10.000	10.619	.619	6.19	.00133	.000	1
CalStd5 40 p	40.000	41.308	1.31	3.27	.00543	.000	1
CalStd6 50 p	50.000	52.420	2.42	4.84	.00692	.000	1
CalStd7 100	100.00	99.572	-.428	-.428	.01323	.000	1
CalStd8 200	200.00	198.69	-1.31	-.656	.02649	.000	1
CalStd9 100	1000.0	1002.5	2.51	.251	.13404	.000	1
CalStd10 20	2000.0	1994.2	-5.75	-.288	.26672	.001	1

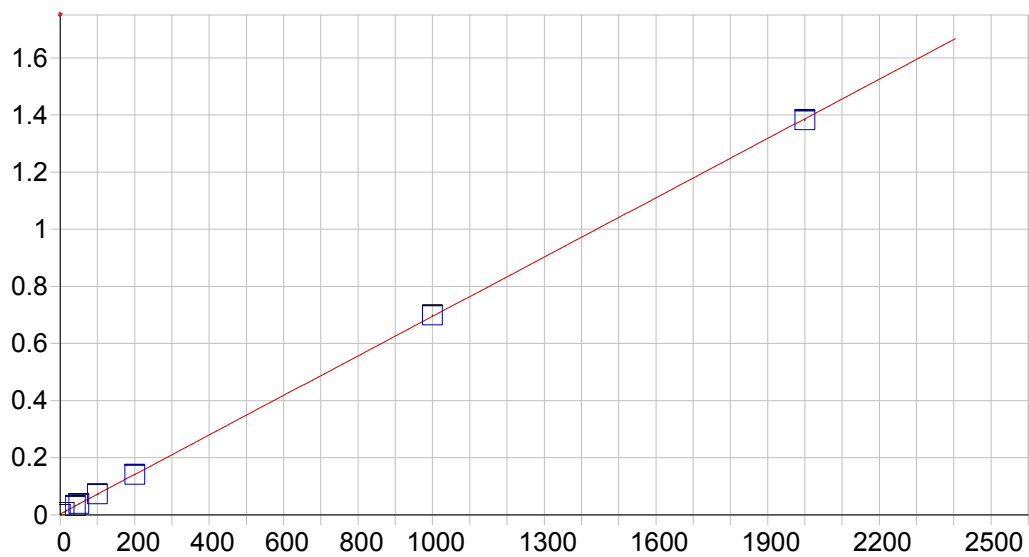


### Cr 267.716 {126}

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000403 Re-Slope: 1.000000  
 A1 (Gain): 0.000330 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999955 Status: OK.  
 Std Error of Est: 0.000009  
 Predicted MDL: 0.406791  
 Predicted MQL: 1.355970

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00054	-.001	.000	.00040	.000	1
CalStd2 2 pp	2.0000	2.2990	.299	14.9	.00116	.000	1
CalStd3 5 pp	5.0000	5.2447	.245	4.89	.00213	.000	1
CalStd4 10 p	10.000	10.053	.053	.534	.00372	.000	1
CalStd5 40 p	40.000	41.102	1.10	2.75	.01395	.000	1
CalStd6 50 p	50.000	52.195	2.19	4.39	.01761	.000	1
CalStd7 100	100.00	100.08	.080	.080	.03340	.000	1
CalStd8 200	200.00	198.32	-1.68	-.839	.06579	.000	1
CalStd9 100	1000.0	1007.7	7.74	.774	.33264	.001	1
CalStd10 20	2000.0	1990.0	-10.0	-.502	.65647	.000	1

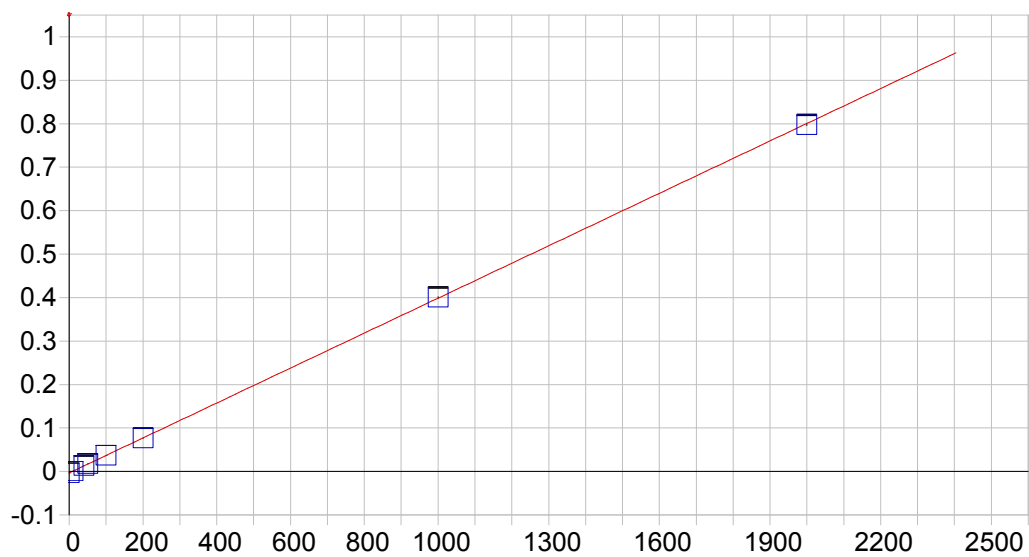


**Cu 324.754 {104}**

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.003320 Re-Slope: 1.000000  
 A1 (Gain): 0.000692 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999973 Status: OK.  
 Std Error of Est: 0.000034  
 Predicted MDL: 0.330948  
 Predicted MQL: 1.103159

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00061	-.001	.000	.00332	.000	1
CalStd4 10 p	10.000	9.9213	-.079	-.787	.01018	.000	1
CalStd5 40 p	40.000	41.141	1.14	2.85	.03179	.000	1
CalStd6 50 p	50.000	52.203	2.20	4.41	.03944	.000	1
CalStd7 100	100.00	99.870	-.130	-.130	.07242	.000	1
CalStd8 200	200.00	199.39	-.614	-.307	.14127	.001	1
CalStd9 100	1000.0	1004.8	4.82	.482	.69856	.001	1
CalStd10 20	2000.0	1992.7	-7.34	-.367	1.3820	.002	1

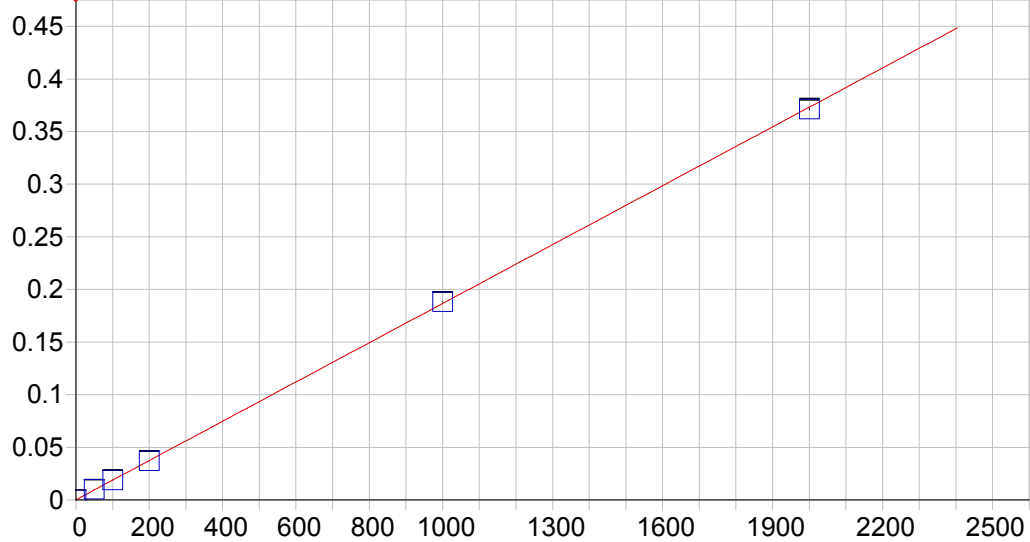


**Cu 327.396 {103}**

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.003379 Re-Slope: 1.000000  
 A1 (Gain): 0.000402 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999968 Status: OK.  
 Std Error of Est: 0.000022  
 Predicted MDL: 0.623817  
 Predicted MQL: 2.079389

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00110	-.001	.000	-.00338	.000	1
CalStd4 10 p	10.000	10.368	.368	3.68	.00079	.000	1
CalStd5 40 p	40.000	40.928	.928	2.32	.01307	.000	1
CalStd6 50 p	50.000	52.508	2.51	5.02	.01773	.000	1
CalStd7 100	100.00	100.33	.331	.331	.03695	.000	1
CalStd8 200	200.00	199.17	-.826	-.413	.07669	.001	1
CalStd9 100	1000.0	1004.7	4.74	.474	.40053	.001	1
CalStd10 20	2000.0	1992.0	-8.05	-.402	.79740	.001	1

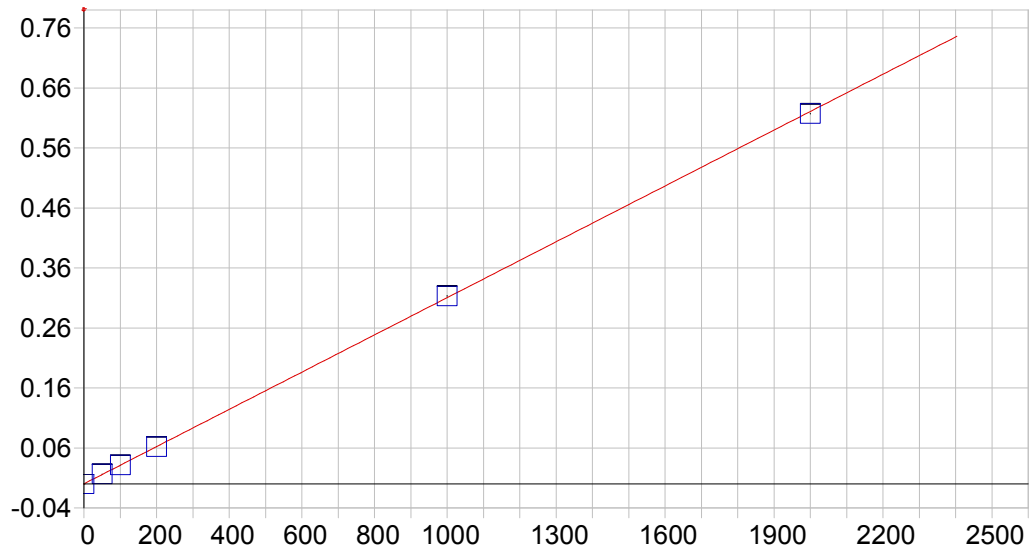


### Fe 238.204 {142}

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000128 Re-Slope: 1.000000  
 A1 (Gain): 0.000187 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999961 Status: OK.  
 Std Error of Est: 0.000026  
 Predicted MDL: 0.425169  
 Predicted MQL: 1.417230

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00236	-.002	.000	.00013	.000	1
CalStd6 50 p	50.000	52.460	2.46	4.92	.00991	.000	1
CalStd7 100	100.00	100.38	.381	.381	.01885	.000	1
CalStd8 200	200.00	198.05	-1.95	-.975	.03707	.000	1
CalStd9 100	1000.0	1008.7	8.74	.874	.18829	.000	1
CalStd10 20	2000.0	1990.4	-9.63	-.481	.37140	.001	1



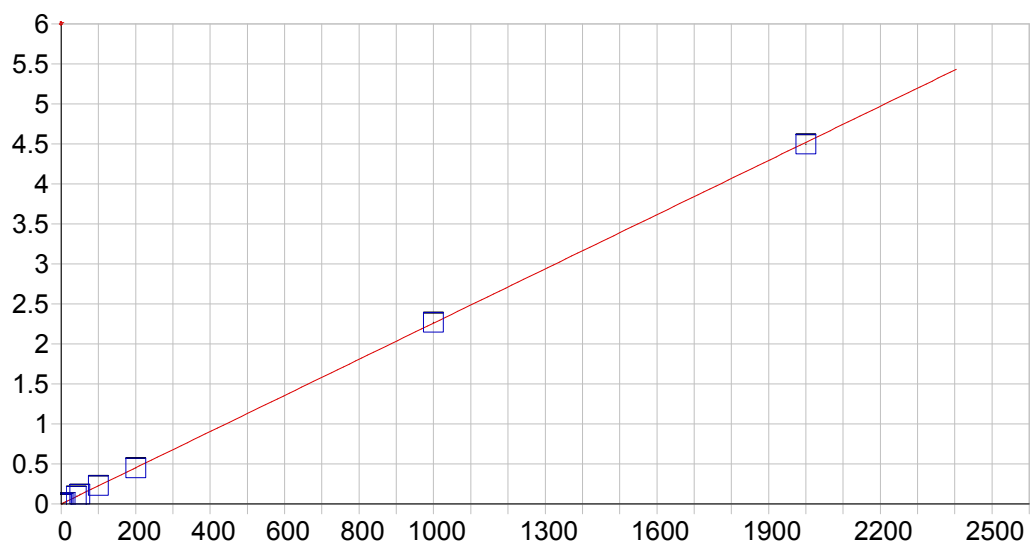
### Fe 259.940 {130}

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000084 Re-Slope: 1.000000  
 A1 (Gain): 0.000310 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999957 Status: OK.  
 Std Error of Est: 0.000046  
 Predicted MDL: 0.368149  
 Predicted MQL: 1.227165

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00285	-.003	.000	.00008	.000	1
CalStd6 50 p	50.000	52.602	2.60	5.20	.01641	.000	1
CalStd7 100	100.00	100.30	.298	.298	.03121	.000	1
CalStd8 200	200.00	199.73	-.268	-.134	.06208	.000	1
CalStd9 100	1000.0	1009.2	9.19	.919	.31331	.001	1
CalStd10 20	2000.0	1988.2	-11.8	-.591	.61716	.000	1



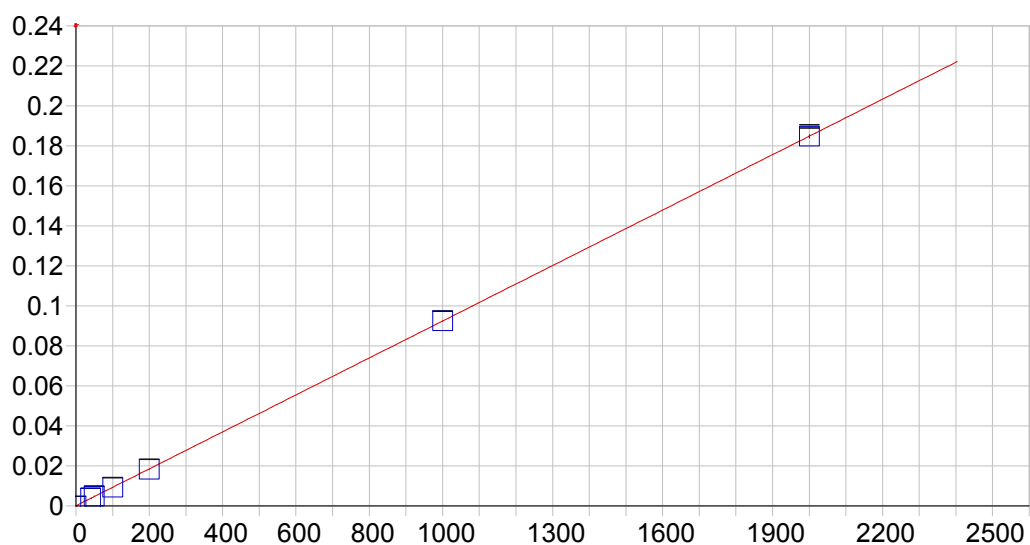


**Mn 257.610 {131}**

Date of Fit: 10/12/2023 11:54:26      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	0.000372	Re-Slope:	1.000000
A1 (Gain):	0.002259	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999938	Status:	OK.
Std Error of Est:	0.000074		
Predicted MDL:	0.055496		
Predicted MQL:	0.184987		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00068	-.001	.000	.00037	.000	1
CalStd2 2 pp	2.0000	2.2140	.214	10.7	.00537	.000	1
CalStd3 5 pp	5.0000	5.3552	.355	7.10	.01247	.000	1
CalStd4 10 p	10.000	10.519	.519	5.19	.02414	.000	1
CalStd5 40 p	40.000	41.793	1.79	4.48	.09480	.000	1
CalStd6 50 p	50.000	53.054	3.05	6.11	.12024	.000	1
CalStd7 100	100.00	101.09	1.09	1.09	.22876	.001	1
CalStd8 200	200.00	198.93	-1.07	-.534	.44982	.002	1
CalStd9 100	1000.0	1004.0	3.96	.396	2.2686	.004	1
CalStd10 20	2000.0	1990.1	-9.92	-.496	4.4966	.004	1

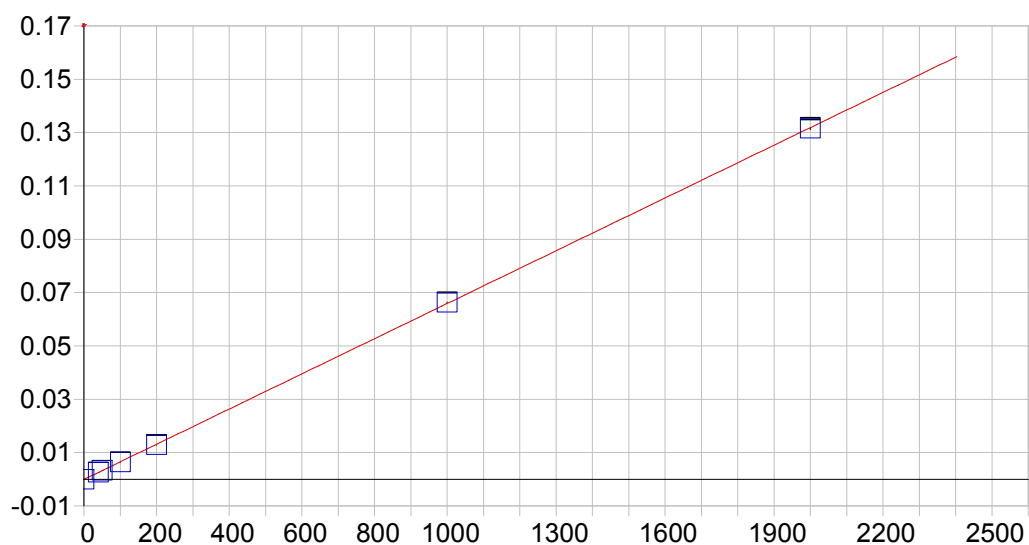


**Mo 202.030 {467}**

Date of Fit: 10/12/2023 11:54:26      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	0.000047	Re-Slope:	1.000000
A1 (Gain):	0.000092	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.288105		
Predicted MQL:	0.960351		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00246	-.002	.000	.00005	.000	1
CalStd5 40 p	40.000	41.542	1.54	3.85	.00389	.000	1
CalStd6 50 p	50.000	52.110	2.11	4.22	.00486	.000	1
CalStd7 100	100.00	99.301	-.699	-.699	.00922	.000	1
CalStd8 200	200.00	197.64	-2.36	-1.18	.01831	.000	1
CalStd9 100	1000.0	999.67	-.329	-.033	.09243	.000	1
CalStd10 20	2000.0	1999.7	-.262	-.013	.18485	.001	1

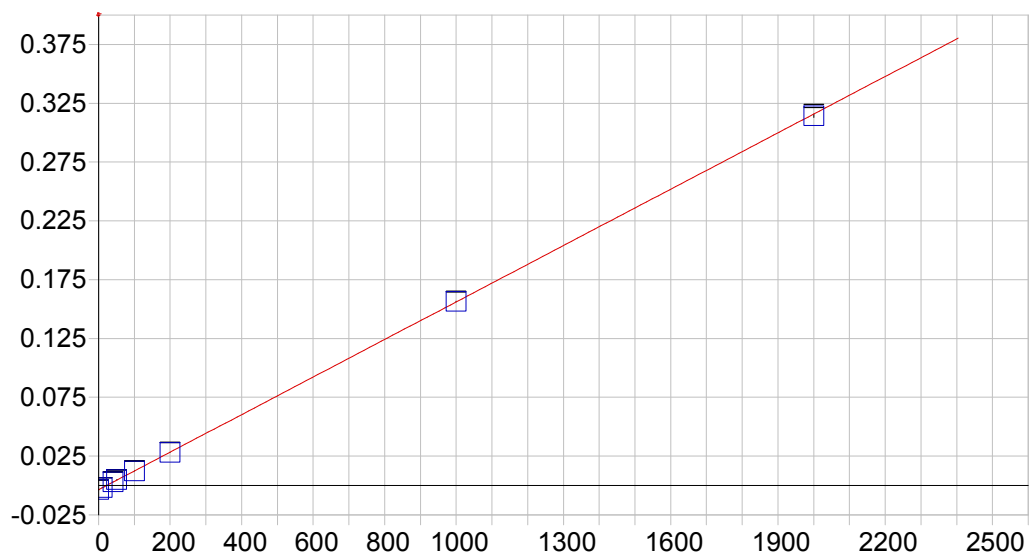


**Mo 204.598 {465}**

Date of Fit: 10/12/2023 11:54:26      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	-0.000075	Re-Slope:	1.000000
A1 (Gain):	0.000066	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	0.423283		
Predicted MQL:	1.410943		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00069	-.001	.000	-.00007	.000	1
CalStd5 40 p	40.000	40.639	.639	1.60	.00261	.000	1
CalStd6 50 p	50.000	51.609	1.61	3.22	.00333	.000	1
CalStd7 100	100.00	98.012	-1.99	-1.99	.00639	.000	1
CalStd8 200	200.00	196.79	-3.21	-1.61	.01291	.000	1
CalStd9 100	1000.0	1007.1	7.09	.709	.06636	.000	1
CalStd10 20	2000.0	1995.9	-4.14	-.207	.13158	.000	1

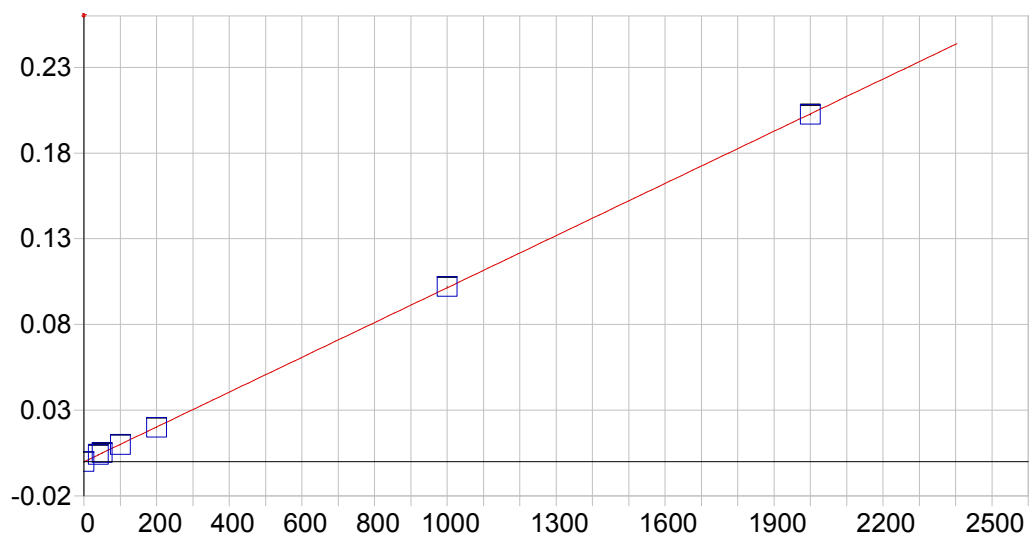


### Mo 281.615 {120}

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.003603 Re-Slope: 1.000000  
 A1 (Gain): 0.000160 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999895 Status: OK.  
 Std Error of Est: 0.000016  
 Predicted MDL: 0.966215  
 Predicted MQL: 3.220717

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00287	-.003	.000	-.00360	.000	1
CalStd4 10 p	10.000	11.662	1.66	16.6	-.00174	.000	1
CalStd5 40 p	40.000	42.326	2.33	5.82	.00316	.000	1
CalStd6 50 p	50.000	53.486	3.49	6.97	.00494	.000	1
CalStd7 100	100.00	100.05	.047	.047	.01238	.000	1
CalStd8 200	200.00	198.93	-1.07	-.537	.02817	.000	1
CalStd9 100	1000.0	1002.9	2.90	.290	.15657	.000	1
CalStd10 20	2000.0	1990.7	-9.35	-.467	.31433	.001	1

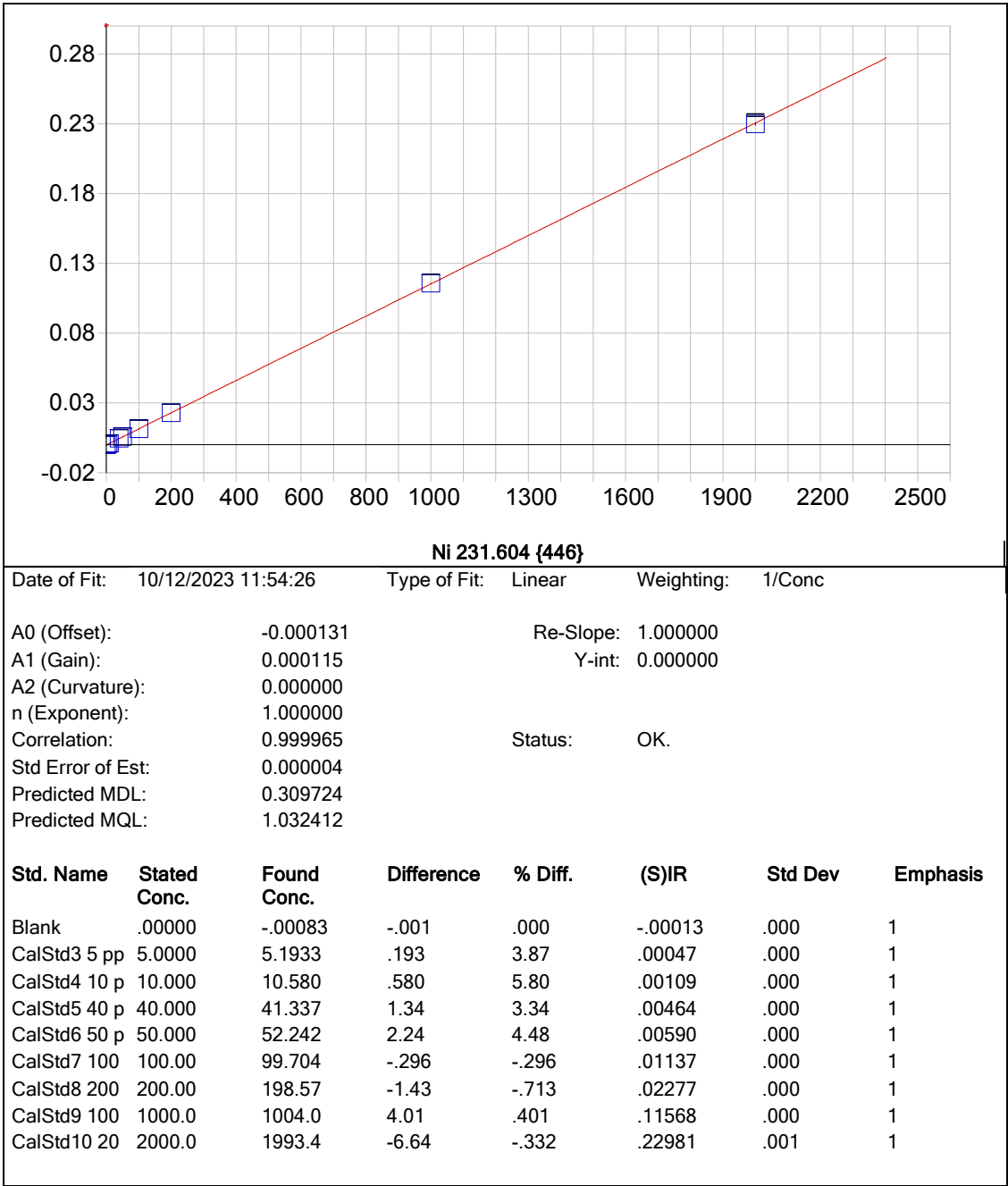


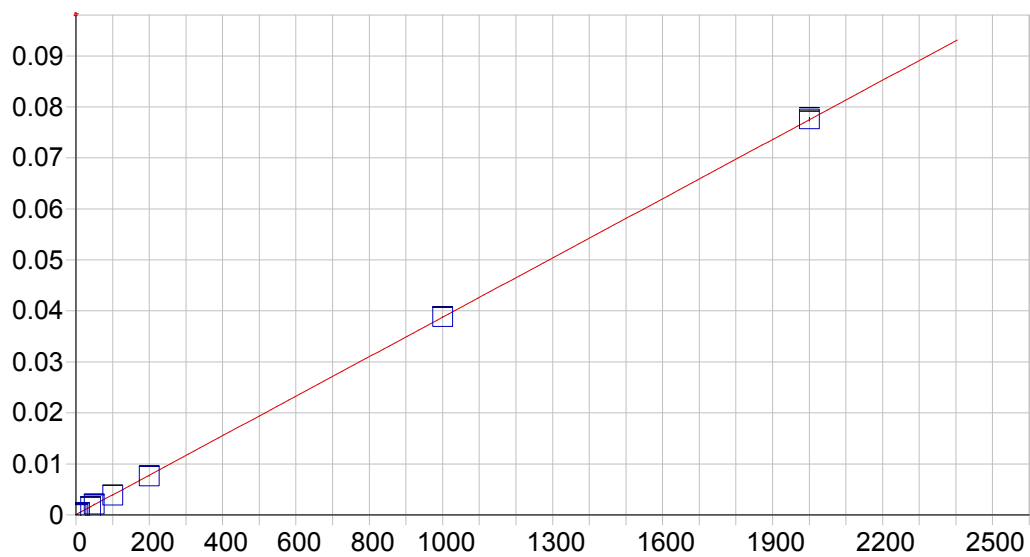
**Mo 284.823 {118}**

Date of Fit: 10/12/2023 11:54:26      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	-0.000079	Re-Slope:	1.000000
A1 (Gain):	0.000101	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	1.401359		
Predicted MQL:	4.671196		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00106	-.001	.000	-.00008	.000	1
CalStd5 40 p	40.000	40.982	.982	2.45	.00408	.000	1
CalStd6 50 p	50.000	51.290	1.29	2.58	.00513	.000	1
CalStd7 100	100.00	98.927	-1.07	-1.07	.00996	.000	1
CalStd8 200	200.00	196.53	-3.47	-1.74	.01986	.000	1
CalStd9 100	1000.0	1006.3	6.34	.634	.10203	.000	1
CalStd10 20	2000.0	1995.9	-4.06	-.203	.20244	.000	1



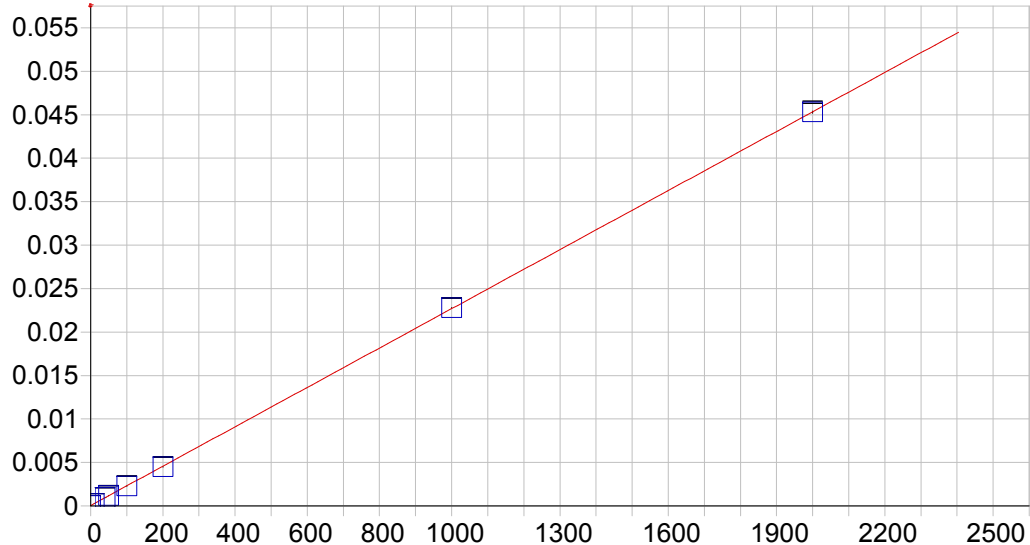


**Pb 220.353 {453}**

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000050 Re-Slope: 1.000000  
 A1 (Gain): 0.000039 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999960 Status: OK.  
 Std Error of Est: 0.000002  
 Predicted MDL: 1.521786  
 Predicted MQL: 5.072620

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00036	.000	.000	.00005	.000	1
CalStd3 5 pp	5.0000	4.5003	-.500	-9.99	.00022	.000	1
CalStd4 10 p	10.000	10.278	.278	2.78	.00045	.000	1
CalStd5 40 p	40.000	40.007	.007	.018	.00160	.000	1
CalStd6 50 p	50.000	51.873	1.87	3.75	.00206	.000	1
CalStd7 100	100.00	98.307	-1.69	-1.69	.00386	.000	1
CalStd8 200	200.00	195.39	-4.61	-2.31	.00761	.000	1
CalStd9 100	1000.0	1001.7	1.74	.174	.03883	.000	1
CalStd10 20	2000.0	2002.9	2.91	.145	.07759	.000	1



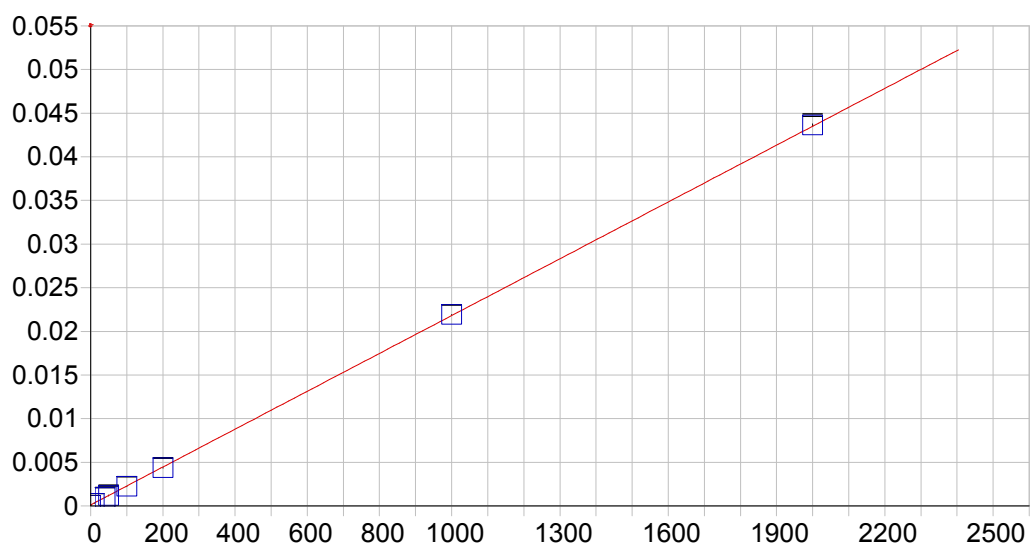
**Sb 206.833 {463}**

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000041 Re-Slope: 1.000000  
 A1 (Gain): 0.000023 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999983 Status: OK.  
 Std Error of Est: 0.000001  
 Predicted MDL: 1.315162  
 Predicted MQL: 4.383872

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00015	-.000	.000	.00004	.000	1
CalStd4 10 p	10.000	10.110	.110	1.10	.00027	.000	1
CalStd5 40 p	40.000	40.359	.359	.897	.00096	.000	1
CalStd6 50 p	50.000	50.921	.921	1.84	.00119	.000	1
CalStd7 100	100.00	99.041	-.959	-.959	.00228	.000	1
CalStd8 200	200.00	196.42	-3.58	-1.79	.00449	.000	1
CalStd9 100	1000.0	1004.6	4.58	.458	.02279	.000	1
CalStd10 20	2000.0	1998.6	-1.44	-.072	.04531	.000	1



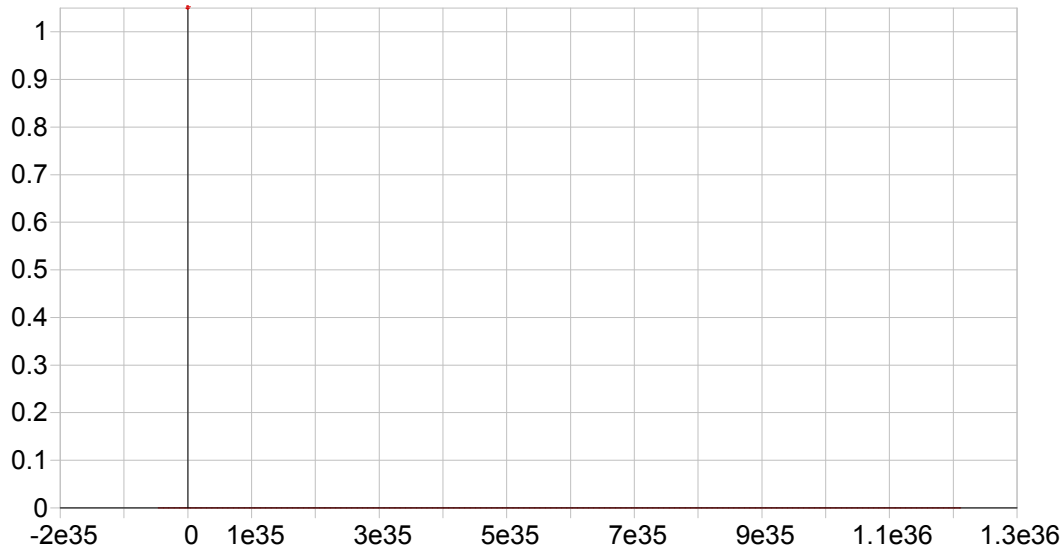


**Sb 217.581 {455}**

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000117 Re-Slope: 1.000000  
 A1 (Gain): 0.000022 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999879 Status: OK.  
 Std Error of Est: 0.000002  
 Predicted MDL: 1.581388  
 Predicted MQL: 5.271295

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00314	.003	.000	.00012	.000	1
CalStd4 10 p	10.000	7.6220	-2.38	-23.8	.00028	.000	1
CalStd5 40 p	40.000	39.370	-.630	-1.57	.00097	.000	1
CalStd6 50 p	50.000	49.107	-.893	-1.79	.00118	.000	1
CalStd7 100	100.00	97.300	-2.70	-2.70	.00223	.000	1
CalStd8 200	200.00	195.20	-4.80	-2.40	.00435	.000	1
CalStd9 100	1000.0	1004.9	4.95	.495	.02192	.000	1
CalStd10 20	2000.0	2006.5	6.46	.323	.04364	.000	1

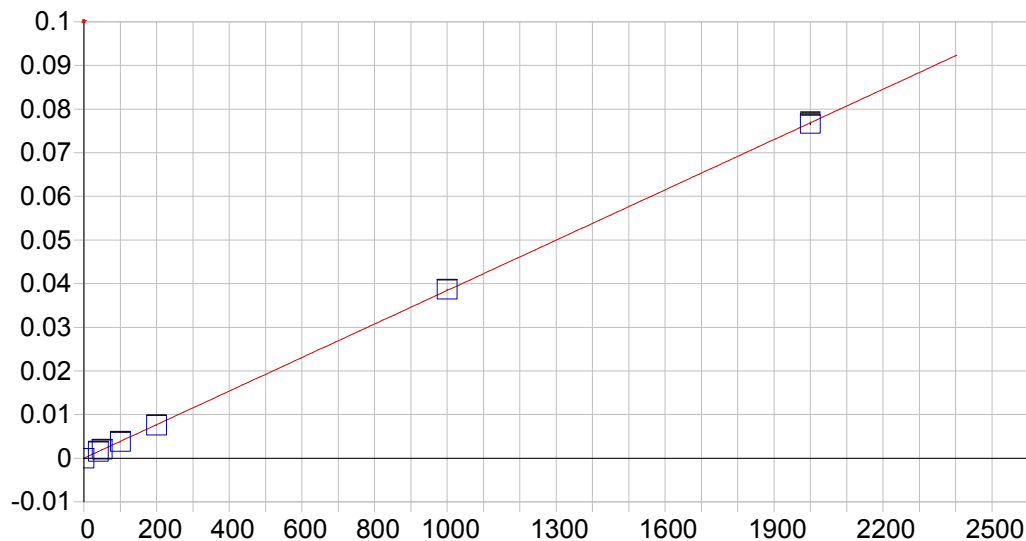


Sc 361.384 { 93}\*

Date of Fit: <not fit> Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000000 Re-Slope: 1.000000  
 A1 (Gain): 0.000000 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.000000 Status: Warning Zero Gain  
 Std Error of Est: 0.000000  
 Predicted MDL: n/a  
 Predicted MQL: n/a

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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Sn 189.989 {478}

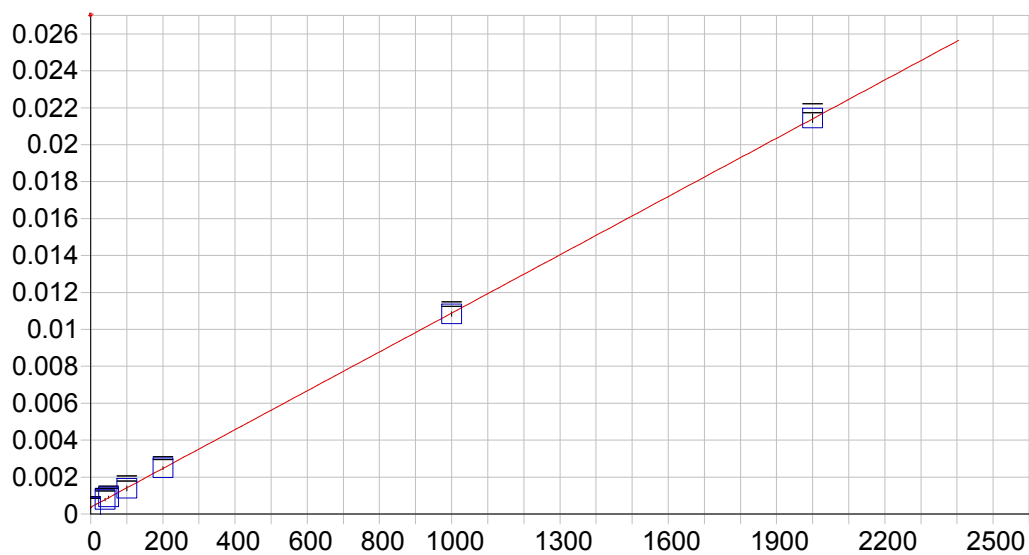
Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000001 Re-Slope: 1.000000  
 A1 (Gain): 0.000038 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999972  
 Std Error of Est: 0.000004  
 Predicted MDL: 0.505643  
 Predicted MQL: 1.685475

Status: OK.

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00053	-.001	.000	-.00000	.000	1
CalStd5 40 p	40.000	40.145	.145	.363	.00154	.000	1
CalStd6 50 p	50.000	51.813	1.81	3.63	.00199	.000	1
CalStd7 100	100.00	98.489	-1.51	-1.51	.00378	.000	1
CalStd8 200	200.00	196.77	-3.23	-1.62	.00756	.000	1
CalStd9 100	1000.0	1006.5	6.49	.649	.03868	.000	1
CalStd10 20	2000.0	1996.3	-3.70	-.185	.07671	.000	1

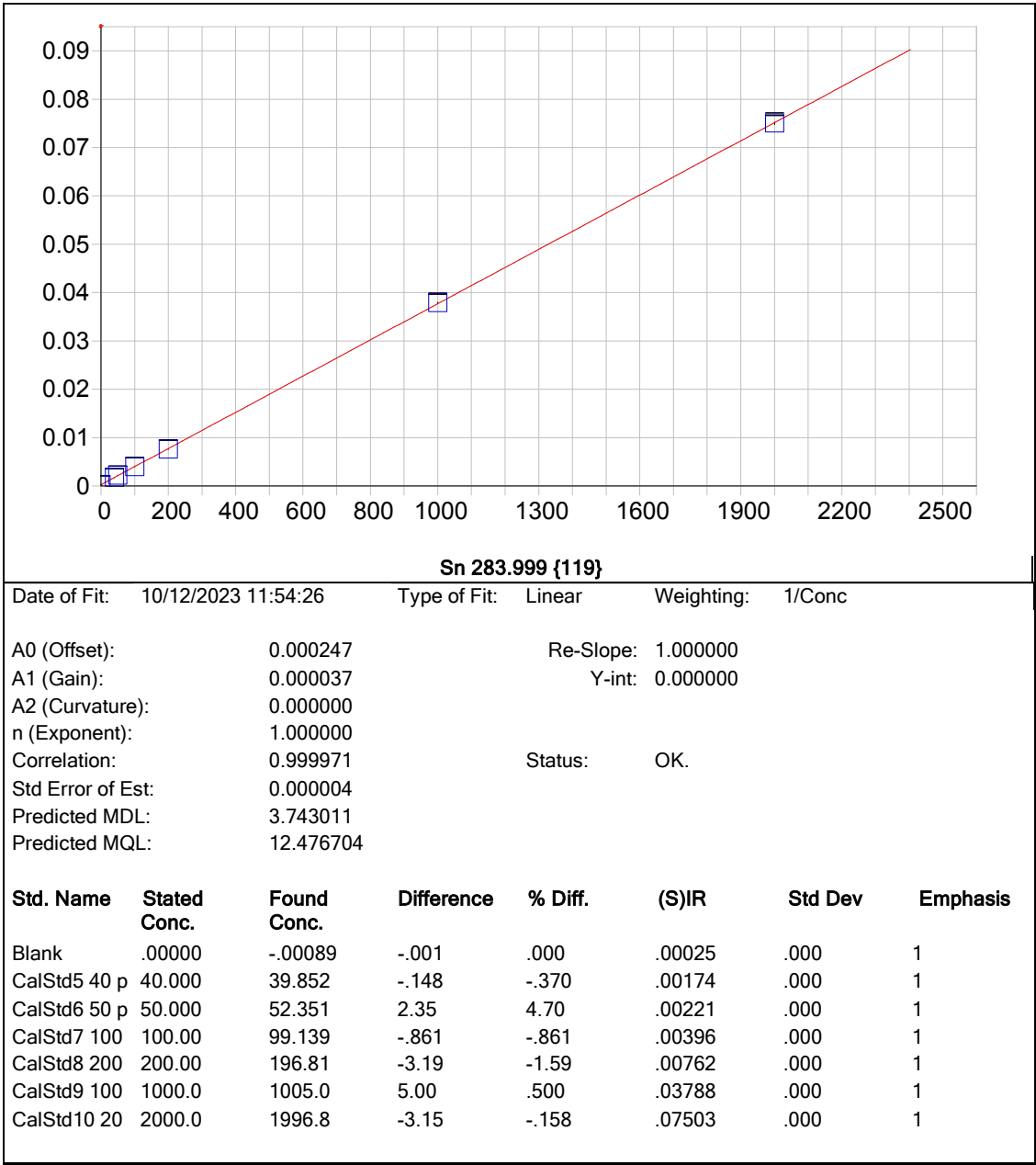


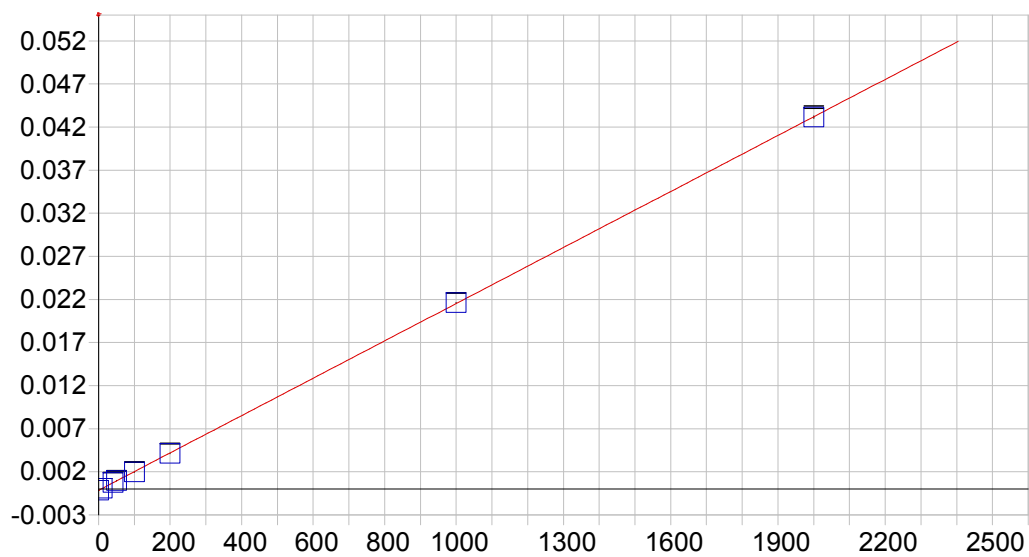
Sn 235.484 {143}

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000361 Re-Slope: 1.000000  
 A1 (Gain): 0.000011 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999960 Status: OK.  
 Std Error of Est: 0.000001  
 Predicted MDL: 9.087030  
 Predicted MQL: 30.290099

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00112	-.001	.000	.00036	.000	1
CalStd5 40 p	40.000	39.693	-.307	-.768	.00078	.000	1
CalStd6 50 p	50.000	52.721	2.72	5.44	.00092	.000	1
CalStd7 100	100.00	97.414	-2.59	-2.59	.00139	.000	1
CalStd8 200	200.00	202.12	2.12	1.06	.00249	.000	1
CalStd9 100	1000.0	994.95	-5.05	-.505	.01083	.000	1
CalStd10 20	2000.0	2003.1	3.10	.155	.02143	.000	1



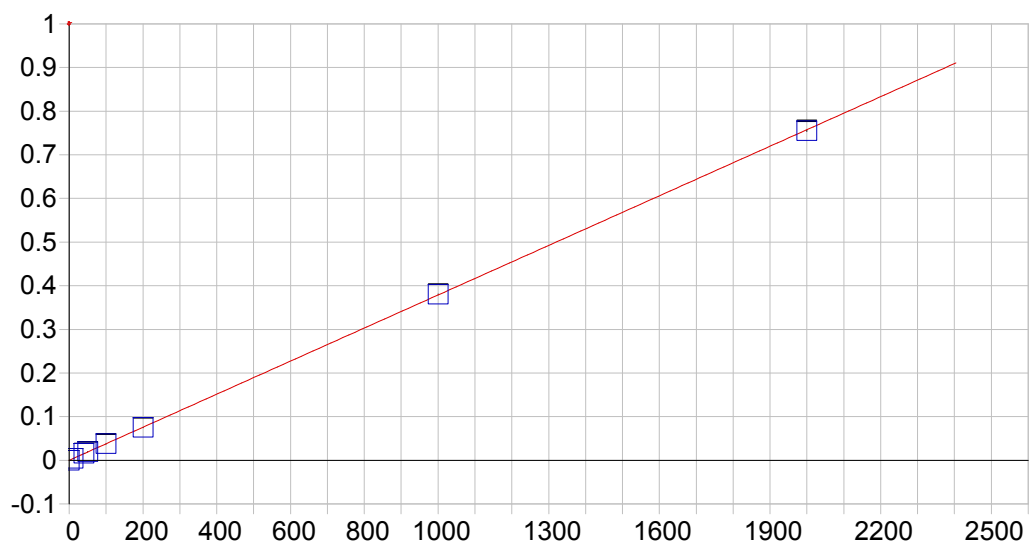


TI 190.856 {477}

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000142 Re-Slope: 1.000000  
 A1 (Gain): 0.000022 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999971 Status: OK.  
 Std Error of Est: 0.000001  
 Predicted MDL: 1.016430  
 Predicted MQL: 3.388101

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00051	-.001	.000	-.00014	.000	1
CalStd4 10 p	10.000	10.150	.150	1.50	.00008	.000	1
CalStd5 40 p	40.000	41.648	1.65	4.12	.00076	.000	1
CalStd6 50 p	50.000	51.257	1.26	2.51	.00097	.000	1
CalStd7 100	100.00	98.050	-1.95	-1.95	.00198	.000	1
CalStd8 200	200.00	197.23	-2.77	-1.39	.00413	.000	1
CalStd9 100	1000.0	1004.2	4.24	.424	.02162	.000	1
CalStd10 20	2000.0	1997.4	-2.57	-.128	.04314	.000	1

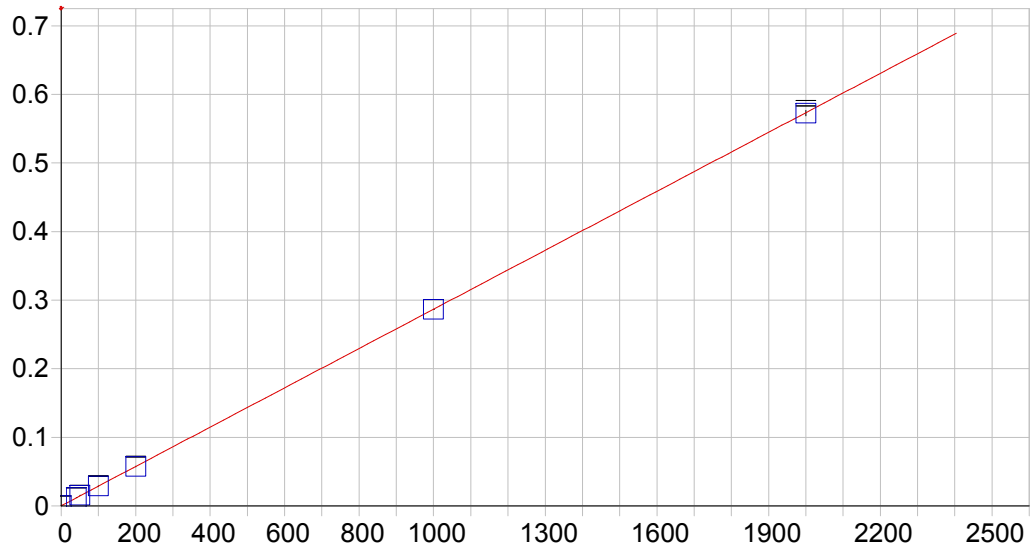


V 292.402 {115}

Date of Fit: 10/12/2023 11:54:26      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset):	0.000037	Re-Slope:	1.000000
A1 (Gain):	0.000379	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000020		
Predicted MDL:	0.419492		
Predicted MQL:	1.398306		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00117	-.001	.000	.00004	.000	1
CalStd4 10 p	10.000	10.564	.564	5.64	.00404	.000	1
CalStd5 40 p	40.000	41.400	1.40	3.50	.01572	.000	1
CalStd6 50 p	50.000	51.930	1.93	3.86	.01971	.000	1
CalStd7 100	100.00	99.459	-.541	-.541	.03771	.000	1
CalStd8 200	200.00	198.16	-1.84	-.921	.07509	.000	1
CalStd9 100	1000.0	1004.7	4.65	.465	.38054	.000	1
CalStd10 20	2000.0	1993.8	-6.16	-.308	.75518	.001	1

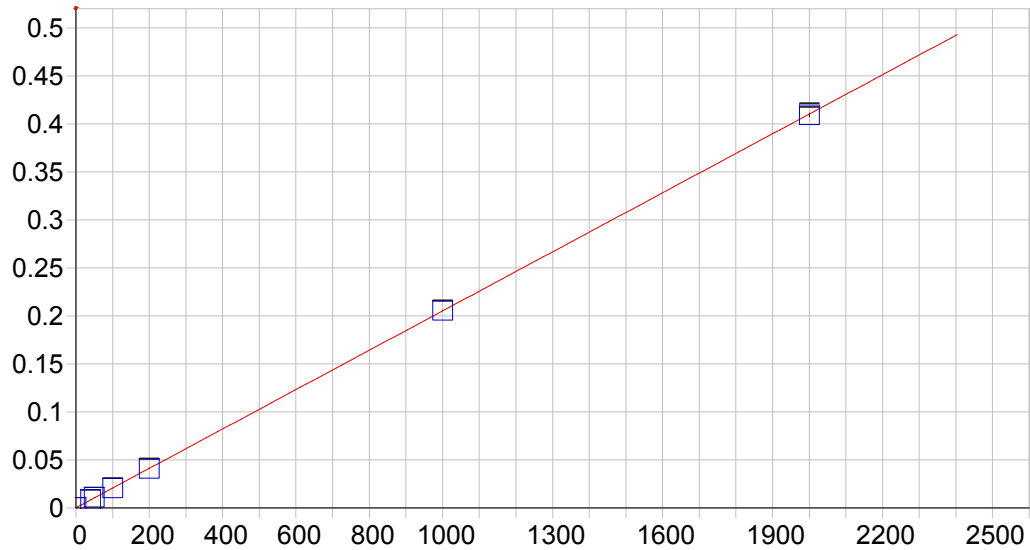


### Zn 202.548 {467}

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000235 Re-Slope: 1.000000  
 A1 (Gain): 0.000287 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999970 Status: OK.  
 Std Error of Est: 0.000031  
 Predicted MDL: 0.076264  
 Predicted MQL: 0.254212

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00336	-.003	.000	.00023	.000	1
CalStd5 40 p	40.000	41.427	1.43	3.57	.01211	.000	1
CalStd6 50 p	50.000	52.703	2.70	5.41	.01534	.000	1
CalStd7 100	100.00	99.954	-.046	-.046	.02887	.000	1
CalStd8 200	200.00	199.40	-.603	-.302	.05737	.000	1
CalStd9 100	1000.0	998.76	-1.24	-.124	.28641	.000	1
CalStd10 20	2000.0	1997.8	-2.24	-.112	.57265	.004	1



### Zn 206.200 {464}

Date of Fit: 10/12/2023 11:54:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000188 Re-Slope: 1.000000  
 A1 (Gain): 0.000205 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999972 Status: OK.  
 Std Error of Est: 0.000021  
 Predicted MDL: 0.116742  
 Predicted MQL: 0.389139

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00274	-.003	.000	.00019	.000	1
CalStd5 40 p	40.000	41.397	1.40	3.49	.00868	.000	1
CalStd6 50 p	50.000	52.354	2.35	4.71	.01092	.000	1
CalStd7 100	100.00	99.236	-.764	-.764	.02053	.000	1
CalStd8 200	200.00	198.72	-1.28	-.638	.04093	.000	1
CalStd9 100	1000.0	1002.6	2.63	.263	.20576	.000	1
CalStd10 20	2000.0	1995.7	-4.34	-.217	.40936	.002	1



<b>Sample Type</b>	<b>Sample Name</b>	<b>Acquired Date/Time</b>
Standard	Blank	2023/10/12 10:59:27
Standard	Blank	2023/10/12 11:09:55
Standard	CalStd1 1 ppb	2023/10/12 11:14:04
Standard	CalStd2 2 ppb	2023/10/12 11:18:10
Standard	CalStd3 5 ppb	2023/10/12 11:22:19
Standard	CalStd4 10 ppb	2023/10/12 11:26:27
Standard	CalStd5 40 ppb	2023/10/12 11:30:35
Standard	CalStd6 50 ppb	2023/10/12 11:34:37
Standard	CalStd7 100 ppb	2023/10/12 11:38:36
Standard	CalStd8 200 ppb	2023/10/12 11:42:28
Standard	CalStd9 1000 ppb	2023/10/12 11:46:25
Standard	CalStd10 2000 ppb	2023/10/12 11:50:28
QC	ICV	2023/10/12 11:54:30
QC	ICB	2023/10/12 11:58:34
Unknown	ICSA	2023/10/12 12:02:42
Unknown	ICSAB	2023/10/12 12:07:00
Unknown	1023-068.LB	2023/10/12 12:11:03
Unknown	1023-068.LCS	2023/10/12 12:15:12
Unknown	MDL-1	2023/10/12 12:19:14
Unknown	MDL-2	2023/10/12 12:23:23
Unknown	MDL-3	2023/10/12 12:27:31
Unknown	MDL-4	2023/10/12 12:31:39
Unknown	MDL-5	2023/10/12 12:35:49
Unknown	MDL-6	2023/10/12 12:39:58
QC	ICV	2023/10/12 12:44:06
QC	ICB	2023/10/12 12:48:10
Unknown	MDL-7	2023/10/12 12:52:21
Unknown	MDL-8	2023/10/12 12:56:31
Unknown	1023-068.1	2023/10/12 13:00:40
Unknown	1023-068.1-MS	2023/10/12 13:04:48
Unknown	1023-068.2	2023/10/12 13:08:50
Unknown	1023-068.2-DUP	2023/10/12 13:12:58
Unknown	1023-068.3	2023/10/12 13:17:06
QC	ICV	2023/10/12 13:21:16
QC	ICB	2023/10/12 13:25:20

# Simple Sample Report

Author:

Published: 10/12/2023 1:45:38PM

Notes:

## Blank

Acquire Date: 10/12/2023 11:09:55AM Sample Type: Standard

Method Name: 1023-068 101223 Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		0.0003090	Cts/S	0.00001400	4.667
As1890		-0.00002500	Cts/S	0.00001900	74.10
As1937		-0.00001900	Cts/S	0.00002800	149.1
Au2082		0.00003900	Cts/S	0.00002200	55.96
Au2427		0.00003300	Cts/S	0.00007700	232.4
Au2675		0.0003160	Cts/S	0.00005100	16.23
Ba2335		-0.00003000	Cts/S	0.000009000	31.76
Ba4554		0.01387	Cts/S	0.0005460	3.940
Be3130		0.004130	Cts/S	0.0002360	5.715
Ca3179		0.002434	Cts/S	0.0001450	5.974
Ca3933		0.3313	Cts/S	0.002300	0.6941
Cd2144		0.00003700	Cts/S	0.000005000	13.55
Cd2288		0.0001270	Cts/S	0.00001600	12.94
Co2286		-0.00009400	Cts/S	0.000008000	8.525
Cr2677		0.0004030	Cts/S	0.0001310	32.61
Cu3247		0.003319	Cts/S	0.0002160	6.500
Cu3273		-0.003380	Cts/S	0.0002090	6.197
Fe2382		0.0001270	Cts/S	0.00005200	40.79
Fe2599		0.00008300	Cts/S	0.0001020	122.7
Mn2576		0.0003700	Cts/S	0.0001080	29.18
Mo2020		0.00004700	Cts/S	0.00002800	60.35
Mo2045		-0.00007500	Cts/S	0.00001200	15.41
Mo2816		-0.003604	Cts/S	0.00006000	1.660
Mo2848		-0.00007900	Cts/S	0.00008400	106.7
Ni2316		-0.0001310	Cts/S	0.00002100	15.71
Pb2203		0.00005000	Cts/S	0.000004000	7.649
Sb2068		0.00004100	Cts/S	0.00001200	29.60
Sb2175		0.0001170	Cts/S	0.00001100	9.601
Sn1899		0.000001000	Cts/S	0.00001700	1,450
Sn2354		0.0003610	Cts/S	0.00004200	11.62
Sn2839		0.0002470	Cts/S	0.00007600	30.93
Tl1908		-0.0001420	Cts/S	0.00002000	14.15
V_2924		0.00003700	Cts/S	0.00007400	201.0
Zn2025		0.0002340	Cts/S	0.000007000	2.961
Zn2062		0.0001880	Cts/S	0.00001600	8.380
Sc3613		39,079	Cts/S	111.03	0.28412

## CalStd1 1 ppb

Acquire Date: 10/12/2023 11:14:04AM Sample Type: Standard

Method Name: 1023-068 101223 Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Be3130		0.02030	Cts/S	0.0002160	1.065
Cd2144		0.0007050	Cts/S	0.00003700	5.303
Cd2288		0.0003960	Cts/S	0.00002300	5.769
Sc3613		39,770	Cts/S	117.55	0.29558

**CalStd2 2 ppb**

Acquire Date: 10/12/2023 11:18:10AM

Sample Type: Standard

Method Name: 1023-068 101223

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ba2335		0.0005640	Cts/S	0.00001700	2.941
Ba4554		0.05933	Cts/S	0.001025	1.727
Be3130		0.03539	Cts/S	0.0003000	0.8480
Cd2144		0.001391	Cts/S	0.00001800	1.262
Cd2288		0.0006390	Cts/S	0.00001600	2.544
Cr2677		0.001161	Cts/S	0.00009900	8.554
Mn2576		0.005374	Cts/S	0.0001010	1.876
Sc3613		39,672	Cts/S	132.16	0.33312

**CalStd3 5 ppb**

Acquire Date: 10/12/2023 11:22:19AM

Sample Type: Standard

Method Name: 1023-068 101223

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ba2335		0.001401	Cts/S	0.000003000	0.2007
Ba4554		0.1314	Cts/S	0.00008400	0.06399
Be3130		0.08318	Cts/S	0.0001790	0.2148
Cd2144		0.003409	Cts/S	0.00002700	0.7858
Cd2288		0.001466	Cts/S	0.00002900	1.976
Co2286		0.0006600	Cts/S	0.00001000	1.569
Cr2677		0.002132	Cts/S	0.00005100	2.391
Mn2576		0.01247	Cts/S	0.00005300	0.4278
Ni2316		0.0004680	Cts/S	0.00002300	4.835
Pb2203		0.0002250	Cts/S	0.00001200	5.240
Sc3613		39,733	Cts/S	123.80	0.31157

**CalStd4 10 ppb**

Acquire Date: 10/12/2023 11:26:27AM

Sample Type: Standard

Method Name: 1023-068 101223

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
As1890		0.00008600	Cts/S	0.00001400	16.13
As1937		0.0001160	Cts/S	0.00001300	10.95
Ba2335		0.002674	Cts/S	0.00001200	0.4669
Ba4554		0.2401	Cts/S	0.001312	0.5464
Be3130		0.1576	Cts/S	0.0008890	0.5638
Cd2144		0.006593	Cts/S	0.00001400	0.2072
Cd2288		0.002668	Cts/S	0.000006000	0.2173
Co2286		0.001326	Cts/S	0.00001900	1.441
Cr2677		0.003717	Cts/S	0.00005200	1.391
Cu3247		0.01018	Cts/S	0.0001520	1.488
Cu3273		0.0007890	Cts/S	0.0001070	13.62
Mn2576		0.02414	Cts/S	0.0001820	0.7529
Mo2816		-0.001741	Cts/S	0.00009600	5.519
Ni2316		0.001089	Cts/S	0.00004000	3.640
Pb2203		0.0004480	Cts/S	0.00001200	2.732
Sb2068		0.0002700	Cts/S	0.00002900	10.62

**CalStd4 10 ppb**

Acquire Date: 10/12/2023 11:26:27AM

Sample Type: Standard

Method Name: 1023-068 101223

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Sb2175		0.0002820	Cts/S	0.00003900	13.66
Tl1908		0.00007800	Cts/S	0.00001300	16.57
V_2924		0.004038	Cts/S	0.0002190	5.415
Sc3613		40,410	Cts/S	183.09	0.45309

**CalStd5 40 ppb**

Acquire Date: 10/12/2023 11:30:35AM

Sample Type: Standard

Method Name: 1023-068 101223

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
As1890		0.0004420	Cts/S	0.00001900	4.415
As1937		0.0005600	Cts/S	0.00001900	3.473
Au2082		0.0009780	Cts/S	0.00002600	2.699
Au2427		0.004056	Cts/S	0.00006200	1.537
Au2675		0.003780	Cts/S	0.00008000	2.122
Ba2335		0.01066	Cts/S	0.00001600	0.1543
Ba4554		0.9118	Cts/S	0.005256	0.5765
Be3130		0.6118	Cts/S	0.0004980	0.08134
Cd2144		0.02631	Cts/S	0.00004800	0.1828
Cd2288		0.01050	Cts/S	0.0001070	1.015
Co2286		0.005432	Cts/S	0.00003300	0.6022
Cr2677		0.01395	Cts/S	0.00004800	0.3415
Cu3247		0.03179	Cts/S	0.0002290	0.7209
Cu3273		0.01307	Cts/S	0.0003440	2.635
Mn2576		0.09480	Cts/S	0.0002480	0.2613
Mo2020		0.003886	Cts/S	0.00002000	0.5206
Mo2045		0.002606	Cts/S	0.00003600	1.382
Mo2816		0.003157	Cts/S	0.0001080	3.433
Mo2848		0.004080	Cts/S	0.00009900	2.418
Ni2316		0.004637	Cts/S	0.00002800	0.6026
Pb2203		0.001599	Cts/S	0.00003300	2.067
Sb2068		0.0009550	Cts/S	0.00001100	1.180
Sb2175		0.0009710	Cts/S	0.00001700	1.750
Sn1899		0.001542	Cts/S	0.00001300	0.8291
Sn2354		0.0007780	Cts/S	0.00006300	8.137
Sn2839		0.001739	Cts/S	0.00002800	1.629
Tl1908		0.0007600	Cts/S	0.00002100	2.789
V_2924		0.01572	Cts/S	0.0001510	0.9615
Zn2025		0.01211	Cts/S	0.00002300	0.1918
Zn2062		0.008676	Cts/S	0.00003500	0.4010
Sc3613		40,241	Cts/S	75.052	0.18651

**CalStd6 50 ppb**

Acquire Date: 10/12/2023 11:34:37AM

Sample Type: Standard

Method Name: 1023-068 101223

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		0.001575	Cts/S	0.000004000	0.2368
As1890		0.0005840	Cts/S	0.00002200	3.684

**CalStd6 50 ppb**

Acquire Date: 10/12/2023 11:34:37AM

Sample Type: Standard

Method Name: 1023-068 101223

Method Revision: 1

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
As1937		0.0007360	Cts/S	0.00001100	1.542
Au2082		0.001274	Cts/S	0.00001300	1.043
Au2427		0.005167	Cts/S	0.00001800	0.3420
Au2675		0.004610	Cts/S	0.00005200	1.131
Ba2335		0.01353	Cts/S	0.00008100	0.6008
Ba4554		1.154	Cts/S	0.005909	0.5120
Be3130		0.7718	Cts/S	0.001089	0.1411
Ca3179		0.02771	Cts/S	0.0001580	0.5715
Ca3933		3.465	Cts/S	0.01236	0.3568
Cd2144		0.03323	Cts/S	0.0002100	0.6324
Cd2288		0.01320	Cts/S	0.0001050	0.7964
Co2286		0.006919	Cts/S	0.00002600	0.3696
Cr2677		0.01761	Cts/S	0.0001240	0.7017
Cu3247		0.03944	Cts/S	0.0003330	0.8455
Cu3273		0.01773	Cts/S	0.0001930	1.088
Fe2382		0.009913	Cts/S	0.00003500	0.3544
Fe2599		0.01641	Cts/S	0.0001590	0.9713
Mn2576		0.1202	Cts/S	0.00003000	0.02519
Mo2020		0.004863	Cts/S	0.00003400	0.6982
Mo2045		0.003330	Cts/S	0.00002100	0.6424
Mo2816		0.004939	Cts/S	0.00002800	0.5584
Mo2848		0.005126	Cts/S	0.0001600	3.127
Ni2316		0.005895	Cts/S	0.00001400	0.2352
Pb2203		0.002058	Cts/S	0.00005200	2.545
Sb2068		0.001194	Cts/S	0.00003200	2.700
Sb2175		0.001182	Cts/S	0.00005300	4.462
Sn1899		0.001990	Cts/S	0.000007000	0.3480
Sn2354		0.0009150	Cts/S	0.00006400	6.942
Sn2839		0.002207	Cts/S	0.00003900	1.782
Tl1908		0.0009680	Cts/S	0.00003700	3.836
V_2924		0.01971	Cts/S	0.0002030	1.031
Zn2025		0.01534	Cts/S	0.0001140	0.7405
Zn2062		0.01092	Cts/S	0.00008600	0.7830
Sc3613		40,057	Cts/S	198.46	0.49546

**CalStd7 100 ppb**

Acquire Date: 10/12/2023 11:38:36AM

Sample Type: Standard

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		0.002718	Cts/S	0.00002600	0.9481
As1890		0.001130	Cts/S	0.00001800	1.620
As1937		0.001417	Cts/S	0.00001500	1.084
Au2082		0.002345	Cts/S	0.00001800	0.7688
Au2427		0.009897	Cts/S	0.0001190	1.205
Au2675		0.008491	Cts/S	0.00003000	0.3530
Ba2335		0.02575	Cts/S	0.0001630	0.6312
Ba4554		2.198	Cts/S	0.008855	0.4029
Be3130		1.467	Cts/S	0.003722	0.2537
Ca3179		0.04987	Cts/S	0.00002800	0.05702
Ca3933		6.261	Cts/S	0.02706	0.4321

**CalStd7 100 ppb**

Acquire Date: 10/12/2023 11:38:36AM

Sample Type: Standard

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.06337	Cts/S	0.0005460	0.8612
Cd2288		0.02506	Cts/S	0.0002960	1.183
Co2286		0.01323	Cts/S	0.00005800	0.4360
Cr2677		0.03340	Cts/S	0.00007000	0.2091
Cu3247		0.07242	Cts/S	0.0001430	0.1976
Cu3273		0.03696	Cts/S	0.0002900	0.7853
Fe2382		0.01885	Cts/S	0.0001680	0.8890
Fe2599		0.03121	Cts/S	0.0001400	0.4495
Mn2576		0.2288	Cts/S	0.001253	0.5478
Mo2020		0.009224	Cts/S	0.00009100	0.9859
Mo2045		0.006391	Cts/S	0.00005400	0.8499
Mo2816		0.01238	Cts/S	0.00006400	0.5188
Mo2848		0.009959	Cts/S	0.0001020	1.027
Ni2316		0.01137	Cts/S	0.0001020	0.8930
Pb2203		0.003856	Cts/S	0.00004200	1.089
Sb2068		0.002284	Cts/S	0.00003700	1.623
Sb2175		0.002228	Cts/S	0.00001800	0.8037
Sn1899		0.003784	Cts/S	0.00004300	1.134
Sn2354		0.001385	Cts/S	0.0001360	9.822
Sn2839		0.003960	Cts/S	0.00003100	0.7939
Tl1908		0.001982	Cts/S	0.00004000	2.007
V_2924		0.03771	Cts/S	0.0002190	0.5803
Zn2025		0.02888	Cts/S	0.0003900	1.351
Zn2062		0.02054	Cts/S	0.0001480	0.7228
Sc3613		40,509	Cts/S	351.66	0.86811

**CalStd8 200 ppb**

Acquire Date: 10/12/2023 11:42:28AM

Sample Type: Standard

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		0.005090	Cts/S	0.00003200	0.6362
As1890		0.002279	Cts/S	0.00001900	0.8357
As1937		0.002823	Cts/S	0.000007000	0.2587
Au2082		0.004700	Cts/S	0.00001500	0.3251
Au2427		0.02002	Cts/S	0.0001760	0.8783
Au2675		0.01646	Cts/S	0.0002240	1.359
Ba2335		0.05156	Cts/S	0.0002790	0.5410
Ba4554		4.371	Cts/S	0.02124	0.4859
Be3130		2.918	Cts/S	0.008428	0.2888
Ca3179		0.09862	Cts/S	0.0006430	0.6524
Ca3933		12.26	Cts/S	0.1124	0.9165
Cd2144		0.1251	Cts/S	0.0007610	0.6079
Cd2288		0.04971	Cts/S	0.0004220	0.8482
Co2286		0.02649	Cts/S	0.0001980	0.7475
Cr2677		0.06579	Cts/S	0.0001820	0.2763
Cu3247		0.1413	Cts/S	0.0008790	0.6225
Cu3273		0.07669	Cts/S	0.0007950	1.037
Fe2382		0.03707	Cts/S	0.0002210	0.5956
Fe2599		0.06208	Cts/S	0.0002230	0.3588
Mn2576		0.4498	Cts/S	0.002039	0.4533

**CalStd8 200 ppb**

Acquire Date: 10/12/2023 11:42:28AM

Sample Type: Standard

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Mo2020		0.01831	Cts/S	0.00009900	0.5392
Mo2045		0.01291	Cts/S	0.0001030	0.7986
Mo2816		0.02817	Cts/S	0.0002440	0.8655
Mo2848		0.01986	Cts/S	0.00009100	0.4605
Ni2316		0.02278	Cts/S	0.0001370	0.6001
Pb2203		0.007614	Cts/S	0.00001200	0.1631
Sb2068		0.004490	Cts/S	0.00002600	0.5777
Sb2175		0.004351	Cts/S	0.00004100	0.9512
Sn1899		0.007560	Cts/S	0.00003800	0.4999
Sn2354		0.002487	Cts/S	0.00008600	3.475
Sn2839		0.007618	Cts/S	0.00005900	0.7688
Tl1908		0.004132	Cts/S	0.00002700	0.6438
V_2924		0.07509	Cts/S	0.0004380	0.5835
Zn2025		0.05737	Cts/S	0.0004110	0.7163
Zn2062		0.04093	Cts/S	0.0002730	0.6669
Sc3613		40,381	Cts/S	288.32	0.71399

**CalStd9 1000 ppb**

Acquire Date: 10/12/2023 11:46:25AM

Sample Type: Standard

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		0.02418	Cts/S	0.00005300	0.2189
As1890		0.01173	Cts/S	0.00004000	0.3397
As1937		0.01453	Cts/S	0.00003400	0.2330
Au2082		0.02397	Cts/S	0.00007100	0.2966
Au2427		0.1018	Cts/S	0.0003540	0.3479
Au2675		0.08250	Cts/S	0.0002300	0.2791
Ba2335		0.2605	Cts/S	0.0002930	0.1125
Ba4554		21.85	Cts/S	0.2347	1.074
Be3130		14.86	Cts/S	0.05815	0.3914
Ca3179		0.4895	Cts/S	0.001108	0.2264
Ca3933		59.78	Cts/S	0.6986	1.169
Cd2144		0.6291	Cts/S	0.001078	0.1714
Cd2288		0.2482	Cts/S	0.0003790	0.1525
Co2286		0.1340	Cts/S	0.0003640	0.2716
Cr2677		0.3326	Cts/S	0.0008630	0.2593
Cu3247		0.6986	Cts/S	0.001116	0.1597
Cu3273		0.4005	Cts/S	0.001252	0.3125
Fe2382		0.1883	Cts/S	0.0003820	0.2027
Fe2599		0.3133	Cts/S	0.0006670	0.2130
Mn2576		2.269	Cts/S	0.003779	0.1666
Mo2020		0.09243	Cts/S	0.00007400	0.08021
Mo2045		0.06636	Cts/S	0.0001080	0.1634
Mo2816		0.1566	Cts/S	0.0002400	0.1534
Mo2848		0.1020	Cts/S	0.0001280	0.1257
Ni2316		0.1157	Cts/S	0.0002000	0.1728
Pb2203		0.03883	Cts/S	0.00005900	0.1516
Sb2068		0.02279	Cts/S	0.00002800	0.1245
Sb2175		0.02192	Cts/S	0.00001200	0.05321
Sn1899		0.03868	Cts/S	0.00002900	0.07527

**CalStd9 1000 ppb**

Acquire Date: 10/12/2023 11:46:25AM

Sample Type: Standard

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Sn2354		0.01083	Cts/S	0.0001190	1.101
Sn2839		0.03788	Cts/S	0.0001240	0.3261
Tl1908		0.02162	Cts/S	0.00003700	0.1693
V_2924		0.3805	Cts/S	0.0004660	0.1224
Zn2025		0.2864	Cts/S	0.0001650	0.05764
Zn2062		0.2058	Cts/S	0.0003590	0.1746
Sc3613		40,587	Cts/S	68.172	0.16797

**CalStd10 2000 ppb**

Acquire Date: 10/12/2023 11:50:28AM

Sample Type: Standard

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		0.04672	Cts/S	0.0001480	0.3166
As1890		0.02340	Cts/S	0.0001530	0.6522
As1937		0.02899	Cts/S	0.00003800	0.1294
Au2082		0.04760	Cts/S	0.0002000	0.4210
Au2427		0.2029	Cts/S	0.0004020	0.1981
Au2675		0.1633	Cts/S	0.0006670	0.4083
Ba2335		0.5157	Cts/S	0.002111	0.4093
Ba4554		43.04	Cts/S	0.1435	0.3334
Be3130		29.52	Cts/S	0.01469	0.04976
Ca3179		0.9691	Cts/S	0.002456	0.2535
Ca3933		113.1	Cts/S	0.2727	0.2411
Cd2144		1.250	Cts/S	0.005758	0.4605
Cd2288		0.4955	Cts/S	0.002046	0.4130
Co2286		0.2667	Cts/S	0.001015	0.3805
Cr2677		0.6565	Cts/S	0.0003080	0.04685
Cu3247		1.382	Cts/S	0.002204	0.1595
Cu3273		0.7974	Cts/S	0.001287	0.1614
Fe2382		0.3714	Cts/S	0.0007640	0.2057
Fe2599		0.6172	Cts/S	0.0004480	0.07251
Mn2576		4.497	Cts/S	0.004398	0.09781
Mo2020		0.1849	Cts/S	0.0008120	0.4391
Mo2045		0.1316	Cts/S	0.0004310	0.3274
Mo2816		0.3143	Cts/S	0.001334	0.4245
Mo2848		0.2024	Cts/S	0.0002870	0.1419
Ni2316		0.2298	Cts/S	0.0009790	0.4260
Pb2203		0.07759	Cts/S	0.0003600	0.4643
Sb2068		0.04531	Cts/S	0.0001320	0.2914
Sb2175		0.04365	Cts/S	0.0001430	0.3280
Sn1899		0.07671	Cts/S	0.0003620	0.4715
Sn2354		0.02143	Cts/S	0.0002440	1.140
Sn2839		0.07503	Cts/S	0.0002770	0.3687
Tl1908		0.04314	Cts/S	0.0001430	0.3324
V_2924		0.7552	Cts/S	0.001424	0.1885
Zn2025		0.5726	Cts/S	0.003928	0.6859
Zn2062		0.4094	Cts/S	0.001927	0.4707
Sc3613		40,009	Cts/S	118.40	0.29592



**ICV**

Acquire Date: 10/12/2023 11:54:30AM Sample Type: QC  
 Method Name: 1023-068 101223 Method Revision: 2  
 Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670	F	1,014	ppb	2.546	0.2511
As1890	F	1,049	ppb	4.435	0.4229
As1937	F	1,001	ppb	7.965	0.7954
Au2082	F	1,008	ppb	4.086	0.4055
Au2427	F	1,022	ppb	4.097	0.4008
Au2675	F	1,010	ppb	0.6868	0.06797
Ba2335	F	999.7	ppb	1.400	0.1400
Ba4554	F	1,020	ppb	3.697	0.3624
Be3130	F	1,028	ppb	5.050	0.4915
Ca3179	F	1,014	ppb	1.931	0.1903
Ca3933	F	1,043	ppb	3.979	0.3815
Cd2144	F	999.5	ppb	2.305	0.2307
Cd2288	F	1,004	ppb	5.274	0.5254
Co2286	F	1,001	ppb	2.168	0.2165
Cr2677	F	993.7	ppb	0.8485	0.08539
Cu3247	F	1,006	ppb	1.675	0.1666
Cu3273	F	1,012	ppb	2.246	0.2220
Fe2382	F	993.4	ppb	1.905	0.1918
Fe2599	F	994.5	ppb	0.4592	0.04617
Mn2576	F	994.1	ppb	2.577	0.2593
Mo2020	F	990.6	ppb	4.800	0.4845
Mo2045	F	991.0	ppb	5.135	0.5182
Mo2816	F	983.6	ppb	1.193	0.1213
Mo2848	F	983.3	ppb	3.308	0.3364
Ni2316	F	996.7	ppb	3.154	0.3165
Pb2203	F	1,005	ppb	4.917	0.4893
Sb2068	F	989.6	ppb	5.539	0.5598
Sb2175	F	990.5	ppb	1.769	0.1786
Sn1899	F	995.2	ppb	4.921	0.4945
Sn2354	F	987.8	ppb	8.006	0.8105
Sn2839	F	998.6	ppb	2.694	0.2698
Tl1908	F	1,001	ppb	2.090	0.2088
V_2924	F	993.3	ppb	0.4114	0.04142
Zn2025	F	1,008	ppb	4.365	0.4329
Zn2062	F	1,001	ppb	3.956	0.3951
Sc3613		40,078	Cts/S	146.12	0.36458

**ICB**

Acquire Date: 10/12/2023 11:58:34AM Sample Type: QC  
 Method Name: 1023-068 101223 Method Revision: 2  
 Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		0.1765	ppb	0.4283	242.7
As1890		-1.443	ppb	0.3679	25.49
As1937		0.6667	ppb	0.4659	69.88
Au2082		-0.4417	ppb	0.4407	99.78
Au2427		-0.5766	ppb	0.8774	152.2
Au2675		2.038	ppb	0.8383	41.13
Ba2335		0.1291	ppb	0.08163	63.25
Ba4554		-0.02529	ppb	0.003274	12.94
Be3130		0.02946	ppb	0.01087	36.90

**ICB**

Acquire Date: 10/12/2023 11:58:34AM

Sample Type: QC

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ca3179		5.297	ppb	0.3324	6.275
Ca3933		5.504	ppb	0.06626	1.204
Cd2144		0.01323	ppb	0.06221	470.4
Cd2288		0.01543	ppb	0.05525	358.1
Co2286		0.1455	ppb	0.09719	66.79
Cr2677		0.08331	ppb	0.03108	37.31
Cu3247		-0.5584	ppb	0.2571	46.04
Cu3273		0.2918	ppb	0.2774	95.08
Fe2382		-0.09392	ppb	0.1982	211.0
Fe2599		-0.1870	ppb	0.09450	50.55
Mn2576		0.06207	ppb	0.03942	63.50
Mo2020		0.2961	ppb	0.2259	76.30
Mo2045		-0.2316	ppb	0.4432	191.4
Mo2816		0.6663	ppb	0.3943	59.18
Mo2848		-0.4331	ppb	0.9166	211.7
Ni2316		0.1048	ppb	0.5206	496.9
Pb2203		-0.1205	ppb	0.3399	281.9
Sb2068		-0.5320	ppb	0.9886	185.8
Sb2175		1.042	ppb	1.432	137.4
Sn1899		0.4195	ppb	0.1259	30.01
Sn2354		3.522	ppb	3.075	87.28
Sn2839		0.2342	ppb	2.154	919.5
Ti1908		1.195	ppb	1.171	98.00
V_2924		-0.06681	ppb	0.4249	635.9
Zn2025		1.421	ppb	0.03600	2.534
Zn2062		1.559	ppb	0.07055	4.524
Sc3613		40,182	Cts/S	187.13	0.46571

ICS Mix contains Al, Ca, and Fe in its solution, therefore these elements are exempt from ICSA/AB. LMP 10/12/23

**ICSA**

Acquire Date: 10/12/2023 12:02:42PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		13,750	ppb	346.9	2.523
As1890		-1.119	ppb	1.486	132.8
As1937		-4.072	ppb	1.372	33.70
Au2082		-1.663	ppb	1.214	73.02
Au2427		0.2782	ppb	1.124	404.2
Au2675		1.260	ppb	1.155	91.65
Ba2335		-0.4739	ppb	0.1063	22.44
Ba4554		0.1029	ppb	0.01801	17.51
Be3130		0.01684	ppb	0.02025	120.3
Ca3179		25,820	ppb	600.0	2.324
Ca3933	^	0.0000	ppb	0.0000	0.0000
Cd2144		0.1264	ppb	0.02017	15.95
Cd2288		-0.004121	ppb	0.1381	3,352
Co2286		-0.1511	ppb	0.1228	81.24
Cr2677		0.1182	ppb	0.3325	281.3
Cu3247		-1.595	ppb	0.07093	4.446
Cu3273		0.5276	ppb	0.1052	19.94
Fe2382		10,120	ppb	294.9	2.913

**ICSA**

Acquire Date: 10/12/2023 12:02:42PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Fe2599		10,050	ppb	297.1	2.958
Mn2576		0.2909	ppb	0.02470	8.489
Mo2020		-0.2153	ppb	0.05438	25.26
Mo2045		0.6149	ppb	0.4102	66.70
Mo2816		33.64	ppb	1.417	4.213
Mo2848		-2.389	ppb	0.2076	8.688
Ni2316		0.1712	ppb	0.2119	123.7
Pb2203		-1.596	ppb	1.388	86.98
Sb2068		-1.069	ppb	1.018	95.31
Sb2175		-3.540	ppb	0.09227	2.607
Sn1899		0.8186	ppb	0.6797	83.04
Sn2354		1,893	ppb	42.12	2.226
Sn2839		-15.10	ppb	4.426	29.32
Ti1908		0.01133	ppb	1.064	9,390
V_2924		-0.2114	ppb	0.09624	45.54
Zn2025		-0.5721	ppb	0.06253	10.93
Zn2062		1.558	ppb	0.03907	2.507
Sc3613		39,078	Cts/S	965.93	2.4718

**ICSAB**

Acquire Date: 10/12/2023 12:07:00PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		13,520	ppb	78.96	0.5842
As1890		107.2	ppb	0.5574	0.5201
As1937		96.74	ppb	1.306	1.350
Au2082		96.21	ppb	1.903	1.978
Au2427		99.64	ppb	0.5544	0.5564
Au2675		99.89	ppb	1.603	1.605
Ba2335		100.9	ppb	0.3875	0.3841
Ba4554		102.9	ppb	0.4072	0.3958
Be3130		105.3	ppb	0.2698	0.2561
Ca3179		24,830	ppb	164.5	0.6624
Ca3933	^	0.0000	ppb	0.0000	0.0000
Cd2144		101.9	ppb	0.5181	0.5086
Cd2288		102.5	ppb	0.3584	0.3497
Co2286		99.03	ppb	0.2322	0.2344
Cr2677		100.3	ppb	0.4250	0.4235
Cu3247		100.4	ppb	0.3396	0.3381
Cu3273		102.6	ppb	0.2643	0.2576
Fe2382		9,986	ppb	28.06	0.2810
Fe2599		9,873	ppb	18.71	0.1895
Mn2576		100.5	ppb	0.2180	0.2169
Mo2020		100.2	ppb	0.2318	0.2312
Mo2045		100.5	ppb	0.6409	0.6380
Mo2816		133.6	ppb	0.6897	0.5162
Mo2848		97.40	ppb	0.6993	0.7180
Ni2316		98.80	ppb	0.5966	0.6038
Pb2203		98.64	ppb	2.582	2.618
Sb2068		99.37	ppb	1.318	1.326

**ICSAB**

Acquire Date: 10/12/2023 12:07:00PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Sb2175		96.19	ppb	0.4239	0.4407
Sn1899		98.87	ppb	0.2019	0.2042
Sn2354		1,918	ppb	5.724	0.2985
Sn2839		86.60	ppb	1.340	1.548
Tl1908		99.54	ppb	1.145	1.150
V_2924		101.6	ppb	0.1807	0.1779
Zn2025		101.6	ppb	0.7419	0.7305
Zn2062		103.3	ppb	0.4335	0.4198
Sc3613		39,930	Cts/S	138.75	0.34749

**1023-068.LB**

Acquire Date: 10/12/2023 12:11:03PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		3.808	ppb	0.4978	13.07
As1890		1.246	ppb	1.457	116.9
As1937		0.7638	ppb	0.4769	62.44
Au2082		-0.3267	ppb	1.030	315.3
Au2427		-0.5887	ppb	0.3231	54.88
Au2675		0.6108	ppb	1.012	165.6
Ba2335		0.04555	ppb	0.1029	226.0
Ba4554		-0.01025	ppb	0.009017	88.00
Be3130		-0.01265	ppb	0.01043	82.47
Ca3179		24.77	ppb	0.6902	2.786
Ca3933		25.20	ppb	0.3107	1.233
Cd2144		0.003128	ppb	0.02839	907.7
Cd2288		0.04006	ppb	0.01801	44.97
Co2286		-0.02106	ppb	0.1977	939.1
Cr2677		-0.2514	ppb	0.3301	131.3
Cu3247		-0.1640	ppb	0.2067	126.1
Cu3273		0.2160	ppb	0.2132	98.70
Fe2382		2.580	ppb	0.5885	22.81
Fe2599		2.860	ppb	0.1373	4.801
Mn2576		1.178	ppb	0.02998	2.545
Mo2020		-0.2593	ppb	0.1069	41.23
Mo2045		0.07079	ppb	0.1525	215.4
Mo2816		1.483	ppb	0.5475	36.92
Mo2848		-0.3683	ppb	1.213	329.2
Ni2316		0.3541	ppb	0.09478	26.77
Pb2203		0.3369	ppb	0.4492	133.3
Sb2068		-0.8994	ppb	1.742	193.7
Sb2175		-1.492	ppb	0.4545	30.47
Sn1899		0.03373	ppb	0.4594	1,362
Sn2354		-9.288	ppb	4.214	45.37
Sn2839		1.030	ppb	5.001	485.8
Tl1908		1.104	ppb	0.7503	67.94
V_2924		-0.08731	ppb	0.5149	589.8
Zn2025		4.945	ppb	0.009388	0.1898
Zn2062		4.981	ppb	0.05227	1.049
Sc3613		41,187	Cts/S	154.17	0.37431

LCS was inadvertently prepped at 400 ppb conc. LMP 10/12/23

**1023-068.LCS**

Acquire Date: 10/12/2023 12:15:12PM Sample Type: Unknown  
Method Name: 1023-068 101223 Method Revision: 2  
Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		413.5	ppb	0.8630	0.2087
As1890		401.4	ppb	0.9801	0.2442
As1937		397.2	ppb	0.9204	0.2317
Au2082		391.1	ppb	0.5129	0.1311
Au2427		392.5	ppb	1.439	0.3667
Au2675		392.5	ppb	1.434	0.3653
Ba2335		398.4	ppb	0.6851	0.1720
Ba4554		402.5	ppb	1.498	0.3721
Be3130		397.1	ppb	1.327	0.3342
Ca3179		420.7	ppb	2.316	0.5504
Ca3933		437.6	ppb	4.652	1.063
Cd2144		399.1	ppb	0.4935	0.1237
Cd2288		397.9	ppb	0.4159	0.1045
Co2286		399.5	ppb	1.230	0.3079
Cr2677		398.7	ppb	1.677	0.4206
Cu3247		396.2	ppb	1.369	0.3455
Cu3273		398.5	ppb	1.627	0.4082
Fe2382		398.9	ppb	0.6666	0.1671
Fe2599		402.0	ppb	1.168	0.2905
Mn2576		400.0	ppb	1.553	0.3881
Mo2020		398.4	ppb	1.761	0.4421
Mo2045		396.9	ppb	0.6971	0.1757
Mo2816		395.1	ppb	0.3752	0.09497
Mo2848		395.5	ppb	2.566	0.6489
Ni2316		400.0	ppb	0.6076	0.1519
Pb2203		397.9	ppb	1.629	0.4095
Sb2068		398.7	ppb	2.508	0.6289
Sb2175		398.6	ppb	2.875	0.7213
Sn1899		406.9	ppb	0.9116	0.2241
Sn2354		404.7	ppb	7.428	1.835
Sn2839		399.1	ppb	2.894	0.7251
Tl1908		397.8	ppb	1.914	0.4813
V_2924		399.4	ppb	1.281	0.3207
Zn2025		402.5	ppb	0.1160	0.02882
Zn2062		404.6	ppb	1.170	0.2892
Sc3613		40,795	Cts/S	195.46	0.47914

MDLs are only for Au, Mo, and Sn elements. LMP 10/12/23

**MDL-1**

Acquire Date: 10/12/2023 12:19:14PM Sample Type: Unknown  
Method Name: 1023-068 101223 Method Revision: 2  
Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		2.966	ppb	0.08630	2.910
As1890		-1.395	ppb	1.496	107.2
As1937		-1.208	ppb	0.4321	35.76
Au2082		38.30	ppb	1.445	3.774
Au2427		39.99	ppb	0.4342	1.086
Au2675		40.57	ppb	0.6542	1.612
Ba2335		0.1352	ppb	0.07744	57.27

**MDL-1**

Acquire Date: 10/12/2023 12:19:14PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ba4554		-0.02382	ppb	0.008415	35.33
Be3130		0.005974	ppb	0.01015	169.9
Ca3179		20.80	ppb	0.4700	2.260
Ca3933		21.27	ppb	0.07523	0.3537
Cd2144		0.02271	ppb	0.02802	123.4
Cd2288		-0.01479	ppb	0.06096	412.1
Co2286		0.2560	ppb	0.1375	53.70
Cr2677		0.01151	ppb	0.1602	1,392
Cu3247		0.02375	ppb	0.03790	159.6
Cu3273		0.3885	ppb	0.3362	86.55
Fe2382		2.080	ppb	0.2151	10.34
Fe2599		2.438	ppb	0.3015	12.37
Mn2576		0.2643	ppb	0.09473	35.84
Mo2020		40.75	ppb	0.09275	0.2276
Mo2045		39.68	ppb	0.1606	0.4047
Mo2816		41.11	ppb	0.7831	1.905
Mo2848		40.03	ppb	0.3976	0.9934
Ni2316		0.9756	ppb	0.3913	40.11
Pb2203		0.3002	ppb	1.123	373.9
Sb2068		-0.6411	ppb	0.3872	60.39
Sb2175		-1.223	ppb	0.1623	13.26
Sn1899		41.54	ppb	0.5193	1.250
Sn2354		33.67	ppb	8.115	24.10
Sn2839		22.81	ppb	3.799	16.65
Ti1908		1.011	ppb	0.6183	61.19
V_2924		-0.6001	ppb	0.4468	74.46
Zn2025		3.132	ppb	0.04873	1.556
Zn2062		3.121	ppb	0.04758	1.525
Sc3613		41,187	Cts/S	146.89	0.35663

**MDL-2**

Acquire Date: 10/12/2023 12:23:23PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		5.972	ppb	0.1365	2.285
As1890		-0.5030	ppb	1.080	214.8
As1937		0.5941	ppb	0.6332	106.6
Au2082		40.04	ppb	1.176	2.937
Au2427		40.12	ppb	0.4002	0.9976
Au2675		43.27	ppb	0.1080	0.2497
Ba2335		0.1129	ppb	0.07611	67.40
Ba4554		-0.01735	ppb	0.01904	109.7
Be3130		-0.0002860	ppb	0.01164	4,070
Ca3179		23.52	ppb	0.7232	3.074
Ca3933		23.96	ppb	0.4955	2.068
Cd2144		0.005778	ppb	0.02919	505.2
Cd2288		-0.1610	ppb	0.1043	64.76
Co2286		0.2014	ppb	0.1800	89.38
Cr2677		-0.2401	ppb	0.4444	185.1
Cu3247		-0.2320	ppb	0.05366	23.13

**MDL-2**

Acquire Date: 10/12/2023 12:23:23PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Cu3273		0.2453	ppb	0.3652	148.9
Fe2382		4.149	ppb	0.07986	1.925
Fe2599		4.273	ppb	0.2049	4.796
Mn2576		0.7683	ppb	0.03784	4.925
Mo2020		41.68	ppb	0.3015	0.7233
Mo2045		40.96	ppb	0.3431	0.8376
Mo2816		42.23	ppb	0.5050	1.196
Mo2848		41.85	ppb	0.6471	1.546
Ni2316		0.4687	ppb	0.2081	44.41
Pb2203		-0.06681	ppb	0.8405	1,258
Sb2068		-1.712	ppb	0.9270	54.13
Sb2175		-2.252	ppb	1.271	56.41
Sn1899		42.74	ppb	0.3318	0.7764
Sn2354		41.49	ppb	3.852	9.283
Sn2839		26.94	ppb	2.563	9.514
Tl1908		1.392	ppb	1.048	75.26
V_2924		-0.3910	ppb	0.3160	80.82
Zn2025		4.772	ppb	0.07018	1.471
Zn2062		4.774	ppb	0.1391	2.914
Sc3613		40,973	Cts/S	22.688	0.055373

**MDL-3**

Acquire Date: 10/12/2023 12:27:31PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		3.524	ppb	0.2648	7.515
As1890		-0.7524	ppb	1.060	141.0
As1937		0.5206	ppb	0.7987	153.4
Au2082		38.64	ppb	1.029	2.663
Au2427		40.06	ppb	0.9777	2.441
Au2675		41.42	ppb	1.942	4.687
Ba2335		0.1648	ppb	0.1156	70.16
Ba4554		0.02944	ppb	0.02059	69.94
Be3130		-0.009529	ppb	0.002660	27.91
Ca3179		23.95	ppb	0.2224	0.9284
Ca3933		24.75	ppb	0.06136	0.2479
Cd2144		-0.05374	ppb	0.05814	108.2
Cd2288		-0.03159	ppb	0.05822	184.3
Co2286		0.3353	ppb	0.03467	10.34
Cr2677		0.08571	ppb	0.1895	221.1
Cu3247		-0.1827	ppb	0.2503	137.0
Cu3273		-0.002595	ppb	0.1998	7,698
Fe2382		20.49	ppb	0.2456	1.199
Fe2599		20.74	ppb	0.3531	1.702
Mn2576		0.9029	ppb	0.06984	7.735
Mo2020		40.92	ppb	0.3019	0.7378
Mo2045		40.75	ppb	0.3028	0.7431
Mo2816		40.72	ppb	1.454	3.571
Mo2848		38.95	ppb	1.334	3.425
Ni2316		0.4689	ppb	0.06220	13.26

**MDL-3**

Acquire Date: 10/12/2023 12:27:31PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Pb2203		-2.395	ppb	1.312	54.79
Sb2068		-0.3808	ppb	0.3970	104.3
Sb2175		-0.5482	ppb	1.043	190.2
Sn1899		41.69	ppb	0.2108	0.5055
Sn2354		36.15	ppb	7.286	20.15
Sn2839		24.44	ppb	3.733	15.27
Tl1908		1.191	ppb	0.4600	38.63
V_2924		-0.4404	ppb	0.1597	36.26
Zn2025		3.003	ppb	0.03802	1.266
Zn2062		2.959	ppb	0.05172	1.748
Sc3613		40,694	Cts/S	38.374	0.094299

**MDL-4**

Acquire Date: 10/12/2023 12:31:39PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		10.20	ppb	0.6103	5.984
As1890		0.4084	ppb	0.5765	141.2
As1937		-1.398	ppb	1.054	75.42
Au2082		38.50	ppb	0.9859	2.561
Au2427		40.86	ppb	0.4570	1.118
Au2675		42.09	ppb	0.7228	1.717
Ba2335		0.1759	ppb	0.04825	27.44
Ba4554		-0.01141	ppb	0.01675	146.7
Be3130		-0.01694	ppb	0.006940	40.96
Ca3179		26.91	ppb	0.3578	1.330
Ca3933		27.56	ppb	0.3171	1.151
Cd2144		-0.01684	ppb	0.03774	224.2
Cd2288		-0.1090	ppb	0.1337	122.7
Co2286		0.2345	ppb	0.1013	43.20
Cr2677		-0.2316	ppb	0.2348	101.4
Cu3247		-0.06676	ppb	0.1488	222.8
Cu3273		0.5116	ppb	0.1063	20.78
Fe2382		6.157	ppb	0.1331	2.161
Fe2599		6.367	ppb	0.06774	1.064
Mn2576		0.4353	ppb	0.04551	10.46
Mo2020		40.69	ppb	0.6085	1.496
Mo2045		40.54	ppb	0.4055	1.000
Mo2816		41.14	ppb	1.036	2.517
Mo2848		39.84	ppb	1.058	2.657
Ni2316		0.2765	ppb	0.07934	28.69
Pb2203		-0.3377	ppb	0.6541	193.7
Sb2068		-0.4186	ppb	1.397	333.8
Sb2175		-1.483	ppb	0.8592	57.93
Sn1899		42.13	ppb	0.8421	1.999
Sn2354		34.10	ppb	5.828	17.09
Sn2839		24.21	ppb	1.643	6.788
Tl1908		0.6547	ppb	0.4811	73.48
V_2924		-0.09248	ppb	0.07375	79.74
Zn2025		3.666	ppb	0.05707	1.557



**MDL-4**

Acquire Date: 10/12/2023 12:31:39PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Zn2062		3.827	ppb	0.1377	3.599
Sc3613		41,081	Cts/S	409.25	0.99621

**MDL-5**

Acquire Date: 10/12/2023 12:35:49PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		3.482	ppb	0.3881	11.15
As1890		-0.3116	ppb	1.888	605.9
As1937		-0.6615	ppb	1.361	205.8
Au2082		39.40	ppb	0.2840	0.7207
Au2427		38.85	ppb	0.5489	1.413
Au2675		42.05	ppb	1.441	3.427
Ba2335		0.09062	ppb	0.07793	85.99
Ba4554		0.04488	ppb	0.01783	39.74
Be3130		-0.01033	ppb	0.001382	13.37
Ca3179		70.34	ppb	0.9392	1.335
Ca3933		73.67	ppb	0.8154	1.107
Cd2144		-0.04510	ppb	0.03600	79.83
Cd2288		-0.06300	ppb	0.03589	56.98
Co2286		0.1980	ppb	0.09393	47.44
Cr2677		0.05669	ppb	0.1473	259.8
Cu3247		0.1265	ppb	0.4223	333.9
Cu3273		-0.03939	ppb	0.5116	1,299
Fe2382		40.27	ppb	0.2812	0.6983
Fe2599		40.21	ppb	0.2169	0.5395
Mn2576		1.798	ppb	0.02953	1.642
Mo2020		39.94	ppb	0.1056	0.2645
Mo2045		39.92	ppb	0.6959	1.743
Mo2816		40.97	ppb	0.9217	2.250
Mo2848		41.28	ppb	0.2066	0.5005
Ni2316		0.4483	ppb	0.2128	47.47
Pb2203		-1.344	ppb	0.3470	25.82
Sb2068		-2.993	ppb	1.367	45.67
Sb2175		-2.010	ppb	0.5379	26.77
Sn1899		42.00	ppb	0.5388	1.283
Sn2354		37.79	ppb	5.954	15.76
Sn2839		21.40	ppb	0.8602	4.021
Tl1908		1.423	ppb	0.7439	52.29
V_2924		-0.4168	ppb	0.09845	23.62
Zn2025		4.505	ppb	0.07120	1.580
Zn2062		4.643	ppb	0.08975	1.933
Sc3613		41,280	Cts/S	75.016	0.18173

**MDL-6**

Acquire Date: 10/12/2023 12:39:58PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

**MDL-6**

Acquire Date: 10/12/2023 12:39:58PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		3.639	ppb	0.4482	12.32
As1890		-1.165	ppb	0.6531	56.08
As1937		0.8768	ppb	0.6541	74.60
Au2082		38.05	ppb	0.7543	1.982
Au2427		38.87	ppb	0.9758	2.510
Au2675		41.08	ppb	1.115	2.715
Ba2335		0.02956	ppb	0.1122	379.7
Ba4554		-0.002822	ppb	0.002287	81.05
Be3130		-0.01041	ppb	0.006300	60.52
Ca3179		36.34	ppb	0.2272	0.6251
Ca3933		37.58	ppb	0.1666	0.4432
Cd2144		0.01005	ppb	0.05189	516.5
Cd2288		-0.1745	ppb	0.1451	83.17
Co2286		0.02749	ppb	0.07542	274.3
Cr2677		0.1371	ppb	0.3891	283.9
Cu3247		-0.2508	ppb	0.05624	22.43
Cu3273		0.6885	ppb	0.1709	24.82
Fe2382		4.317	ppb	0.2446	5.666
Fe2599		4.176	ppb	0.2038	4.880
Mn2576		0.5044	ppb	0.007910	1.568
Mo2020		40.13	ppb	0.2099	0.5232
Mo2045		40.08	ppb	0.5668	1.414
Mo2816		41.33	ppb	0.3112	0.7528
Mo2848		41.23	ppb	1.032	2.503
Ni2316		0.4587	ppb	0.08383	18.28
Pb2203		-0.08879	ppb	0.8863	998.2
Sb2068		-2.833	ppb	0.2948	10.41
Sb2175		-2.757	ppb	1.371	49.70
Sn1899		41.70	ppb	0.6099	1.463
Sn2354		37.62	ppb	2.028	5.390
Sn2839		23.61	ppb	3.536	14.98
Tl1908		0.9905	ppb	0.5269	53.19
V_2924		-0.2654	ppb	0.3614	136.2
Zn2025		3.977	ppb	0.06751	1.698
Zn2062		3.947	ppb	0.03823	0.9685
Sc3613		41,355	Cts/S	22.086	0.053406

**ICV**

Acquire Date: 10/12/2023 12:44:06PM

Sample Type: QC

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670	F	1,013	ppb	4.899	0.4838
As1890	F	1,040	ppb	7.845	0.7540
As1937	F	988.5	ppb	5.486	0.5550
Au2082	F	999.3	ppb	5.324	0.5327
Au2427	F	1,002	ppb	0.8227	0.08212
Au2675	F	996.8	ppb	1.641	0.1646
Ba2335	F	991.3	ppb	5.941	0.5994
Ba4554	F	999.1	ppb	2.725	0.2727
Be3130	F	1,008	ppb	3.275	0.3250

**ICV**

Acquire Date: 10/12/2023 12:44:06PM

Sample Type: QC

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ca3179	F	995.2	ppb	1.304	0.1310
Ca3933	F	1,032	ppb	0.6578	0.06374
Cd2144	F	989.8	ppb	5.017	0.5069
Cd2288	F	987.4	ppb	2.066	0.2092
Co2286	F	988.4	ppb	3.227	0.3265
Cr2677	F	983.3	ppb	2.264	0.2303
Cu3247	F	992.6	ppb	0.2210	0.02226
Cu3273	F	996.1	ppb	2.153	0.2162
Fe2382	F	985.4	ppb	5.666	0.5750
Fe2599	F	986.1	ppb	3.263	0.3309
Mn2576	F	977.7	ppb	1.179	0.1206
Mo2020	F	975.5	ppb	2.321	0.2380
Mo2045	F	980.6	ppb	4.189	0.4272
Mo2816	F	972.5	ppb	3.274	0.3367
Mo2848	F	971.5	ppb	0.7245	0.07457
Ni2316	F	985.6	ppb	5.567	0.5649
Pb2203	F	991.9	ppb	3.452	0.3480
Sb2068	F	977.5	ppb	4.765	0.4875
Sb2175	F	984.9	ppb	7.437	0.7551
Sn1899	F	985.2	ppb	7.275	0.7384
Sn2354	F	969.7	ppb	12.99	1.339
Sn2839	F	979.5	ppb	4.390	0.4482
Ti1908	F	989.0	ppb	4.986	0.5042
V_2924	F	986.1	ppb	0.5108	0.05180
Zn2025	F	993.2	ppb	3.685	0.3710
Zn2062	F	988.9	ppb	4.136	0.4182
Sc3613		40,161	Cts/S	141.35	0.35195

**ICB**

Acquire Date: 10/12/2023 12:48:10PM

Sample Type: QC

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		0.2085	ppb	0.4670	224.0
As1890		0.2547	ppb	1.260	494.8
As1937		0.2427	ppb	0.6416	264.3
Au2082		-2.470	ppb	1.464	59.29
Au2427		-0.4302	ppb	0.8142	189.3
Au2675		0.8055	ppb	0.5930	73.62
Ba2335		0.1826	ppb	0.08212	44.96
Ba4554		-0.03149	ppb	0.01034	32.83
Be3130		0.006716	ppb	0.001336	19.89
Ca3179		5.440	ppb	0.4628	8.508
Ca3933		5.494	ppb	0.04377	0.7967
Cd2144		0.02007	ppb	0.04249	211.7
Cd2288		-0.07497	ppb	0.08193	109.3
Co2286		0.2838	ppb	0.1636	57.64
Cr2677		0.3200	ppb	0.08863	27.70
Cu3247		-0.6993	ppb	0.1833	26.21
Cu3273		0.2544	ppb	0.1442	56.67
Fe2382		-0.07538	ppb	0.2649	351.5

**ICB**

Acquire Date: 10/12/2023 12:48:10PM

Sample Type: QC

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Fe2599		0.1427	ppb	0.04990	34.97
Mn2576		0.09395	ppb	0.007755	8.255
Mo2020		0.05524	ppb	0.2409	436.0
Mo2045		0.03972	ppb	0.2947	742.0
Mo2816		1.454	ppb	0.2684	18.46
Mo2848		-0.1829	ppb	0.7313	399.9
Ni2316		0.2179	ppb	0.2353	108.0
Pb2203		-0.7130	ppb	0.9360	131.3
Sb2068		-0.07316	ppb	0.3963	541.7
Sb2175		-0.1831	ppb	0.2967	162.1
Sn1899		0.1679	ppb	0.3172	188.9
Sn2354		0.1159	ppb	10.37	8,951
Sn2839		-0.9332	ppb	1.599	171.4
Ti1908		-0.1554	ppb	0.1793	115.3
V_2924		0.08579	ppb	0.5328	621.1
Zn2025		1.452	ppb	0.04422	3.046
Zn2062		1.464	ppb	0.05561	3.798
Sc3613		40,375	Cts/S	150.62	0.37304

**MDL-7**

Acquire Date: 10/12/2023 12:52:21PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		1.732	ppb	0.5768	33.31
As1890		0.7109	ppb	0.3188	44.85
As1937		-0.3839	ppb	0.2506	65.27
Au2082		33.57	ppb	0.3740	1.114
Au2427		34.19	ppb	1.033	3.022
Au2675		35.42	ppb	1.046	2.954
Ba2335		0.07076	ppb	0.07702	108.9
Ba4554		-0.01863	ppb	0.004219	22.65
Be3130		-0.001190	ppb	0.01100	924.7
Ca3179		10.97	ppb	0.08161	0.7436
Ca3933		11.13	ppb	0.1023	0.9190
Cd2144		0.01430	ppb	0.07243	506.6
Cd2288		-0.1667	ppb	0.07457	44.73
Co2286		0.04332	ppb	0.3108	717.5
Cr2677		-0.1500	ppb	0.1405	93.66
Cu3247		-0.5978	ppb	0.1663	27.82
Cu3273		0.1447	ppb	0.3202	221.3
Fe2382		1.822	ppb	0.2783	15.27
Fe2599		2.312	ppb	0.2141	9.260
Mn2576		0.4498	ppb	0.02977	6.619
Mo2020		34.73	ppb	0.3780	1.088
Mo2045		34.67	ppb	0.3444	0.9934
Mo2816		36.47	ppb	0.6562	1.799
Mo2848		35.37	ppb	0.8222	2.325
Ni2316		0.2649	ppb	0.3363	127.0
Pb2203		-0.08522	ppb	0.8642	1,014
Sb2068		-2.103	ppb	0.3692	17.56

**MDL-7**

Acquire Date: 10/12/2023 12:52:21PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Sb2175		-2.857	ppb	0.2994	10.48
Sn1899		37.67	ppb	0.6711	1.781
Sn2354		27.87	ppb	6.638	23.82
Sn2839		24.94	ppb	2.498	10.02
Tl1908		1.806	ppb	0.4775	26.44
V_2924		-0.2751	ppb	0.1132	41.13
Zn2025		1.572	ppb	0.05449	3.466
Zn2062		1.612	ppb	0.06616	4.104
Sc3613		41,616	Cts/S	84.722	0.20358

**MDL-8**

Acquire Date: 10/12/2023 12:56:31PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		13.35	ppb	0.4324	3.238
As1890		-0.8524	ppb	0.8983	105.4
As1937		-0.8569	ppb	0.7049	82.26
Au2082		38.77	ppb	0.7178	1.852
Au2427		39.39	ppb	0.9065	2.301
Au2675		41.08	ppb	1.059	2.577
Ba2335		0.1363	ppb	0.02103	15.43
Ba4554		-0.02140	ppb	0.01259	58.83
Be3130		-0.01056	ppb	0.01477	140.0
Ca3179		21.78	ppb	0.6926	3.180
Ca3933		22.43	ppb	0.7185	3.203
Cd2144		-0.02072	ppb	0.03575	172.6
Cd2288		-0.1881	ppb	0.08461	44.97
Co2286		0.2465	ppb	0.1826	74.09
Cr2677		-0.08605	ppb	0.1120	130.2
Cu3247		-0.3086	ppb	0.2485	80.54
Cu3273		0.4861	ppb	0.3169	65.20
Fe2382		4.036	ppb	0.07780	1.928
Fe2599		4.412	ppb	0.3861	8.750
Mn2576		0.2365	ppb	0.01123	4.750
Mo2020		40.22	ppb	0.4452	1.107
Mo2045		39.94	ppb	0.06152	0.1540
Mo2816		40.63	ppb	0.4011	0.9871
Mo2848		39.80	ppb	0.9635	2.421
Ni2316		0.2261	ppb	0.3241	143.3
Pb2203		-0.4810	ppb	1.321	274.6
Sb2068		-2.919	ppb	0.8920	30.56
Sb2175		-1.115	ppb	1.951	175.0
Sn1899		41.65	ppb	0.09477	0.2275
Sn2354		27.50	ppb	5.437	19.77
Sn2839		26.39	ppb	0.5967	2.261
Tl1908		0.6349	ppb	0.3782	59.56
V_2924		-0.6691	ppb	0.1389	20.76
Zn2025		1.777	ppb	0.2635	14.83
Zn2062		1.824	ppb	0.3327	18.24
Sc3613		41,256	Cts/S	257.92	0.62517

**1023-068.1**

Acquire Date: 10/12/2023 1:00:40PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		11.85	ppb	0.4462	3.767
As1890		1.603	ppb	0.6516	40.65
As1937		-2.552	ppb	1.558	61.05
Au2082		-2.371	ppb	0.8997	37.94
Au2427		-0.6332	ppb	0.6370	100.6
Au2675		1.586	ppb	1.006	63.39
Ba2335		0.4786	ppb	0.1164	24.32
Ba4554		0.3747	ppb	0.01352	3.609
Be3130		0.01257	ppb	0.01602	127.5
Ca3179		93.02	ppb	1.027	1.104
Ca3933		97.97	ppb	0.5516	0.5630
Cd2144		-0.004997	ppb	0.006400	128.1
Cd2288		-0.08172	ppb	0.08369	102.4
Co2286		0.2364	ppb	0.08487	35.91
Cr2677		15.95	ppb	0.3662	2.296
Cu3247		0.7121	ppb	0.2500	35.11
Cu3273		0.9424	ppb	0.7192	76.32
Fe2382		22.58	ppb	0.6338	2.807
Fe2599		22.72	ppb	0.3377	1.486
Mn2576		7.762	ppb	0.09294	1.197
Mo2020		-0.05260	ppb	0.2562	487.1
Mo2045		-0.2056	ppb	0.1431	69.57
Mo2816		0.9525	ppb	0.3934	41.30
Mo2848		-0.09397	ppb	1.119	1,191
Ni2316		1.648	ppb	0.1697	10.30
Pb2203		0.02832	ppb	0.3766	1,330
Sb2068		-1.421	ppb	0.3962	27.89
Sb2175		-5.227	ppb	1.570	30.05
Sn1899		2.184	ppb	0.3653	16.73
Sn2354		1.935	ppb	2.846	147.1
Sn2839		8.524	ppb	1.647	19.32
Tl1908		-0.4996	ppb	1.207	241.6
V_2924		-0.3801	ppb	0.2077	54.64
Zn2025		5.266	ppb	0.1253	2.380
Zn2062		5.191	ppb	0.07086	1.365
Sc3613		41,168	Cts/S	280.65	0.68172

**1023-068.1-MS**

Acquire Date: 10/12/2023 1:04:48PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		117.5	ppb	3.617	3.078
As1890		104.4	ppb	3.358	3.217
As1937		95.87	ppb	3.126	3.261
Au2082		94.30	ppb	2.401	2.546
Au2427		96.35	ppb	5.528	5.738
Au2675		99.56	ppb	4.341	4.360
Ba2335		101.0	ppb	3.280	3.248

**1023-068.1-MS**

Acquire Date: 10/12/2023 1:04:48PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Ba4554		102.8	ppb	4.704	4.577
Be3130		101.2	ppb	4.571	4.519
Ca3179		222.7	ppb	10.54	4.733
Ca3933		229.8	ppb	4.478	1.948
Cd2144		101.0	ppb	3.155	3.124
Cd2288		101.5	ppb	3.427	3.377
Co2286		100.7	ppb	3.536	3.510
Cr2677		117.8	ppb	5.383	4.571
Cu3247		105.4	ppb	5.070	4.810
Cu3273		104.9	ppb	4.195	3.999
Fe2382		124.8	ppb	5.613	4.497
Fe2599		126.2	ppb	5.615	4.449
Mn2576		111.6	ppb	4.951	4.438
Mo2020		98.53	ppb	2.911	2.954
Mo2045		98.28	ppb	3.083	3.137
Mo2816		99.85	ppb	4.038	4.044
Mo2848		99.61	ppb	4.136	4.152
Ni2316		102.2	ppb	3.160	3.092
Pb2203		98.91	ppb	3.576	3.616
Sb2068		96.16	ppb	3.107	3.232
Sb2175		94.08	ppb	3.688	3.920
Sn1899		99.88	ppb	2.433	2.435
Sn2354		101.7	ppb	9.952	9.785
Sn2839		106.6	ppb	5.087	4.774
Ti1908		98.02	ppb	3.504	3.575
V_2924		101.5	ppb	4.774	4.705
Zn2025		110.5	ppb	3.841	3.476
Zn2062		110.1	ppb	3.259	2.961
Sc3613		40,828	Cts/S	1,274.4	3.1215

**1023-068.2**

Acquire Date: 10/12/2023 1:08:50PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		11.06	ppb	0.4181	3.781
As1890		3.521	ppb	1.107	31.44
As1937		-1.677	ppb	1.311	78.21
Au2082		-1.237	ppb	0.7738	62.54
Au2427		-0.5604	ppb	0.3694	65.91
Au2675		0.9992	ppb	2.062	206.4
Ba2335		0.4774	ppb	0.09923	20.79
Ba4554		0.3279	ppb	0.008058	2.457
Be3130		0.004579	ppb	0.006229	136.0
Ca3179		78.95	ppb	0.1624	0.2057
Ca3933		82.63	ppb	0.6201	0.7505
Cd2144		0.01268	ppb	0.01494	117.8
Cd2288		0.04900	ppb	0.08118	165.7
Co2286		0.2236	ppb	0.08936	39.97
Cr2677		15.20	ppb	0.2488	1.637
Cu3247		0.7133	ppb	0.3166	44.38

**1023-068.2**

Acquire Date: 10/12/2023 1:08:50PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Cu3273		1.421	ppb	0.7314	51.45
Fe2382		17.56	ppb	0.6448	3.672
Fe2599		17.52	ppb	0.5394	3.079
Mn2576		2.013	ppb	0.02566	1.274
Mo2020		-0.2247	ppb	0.2762	122.9
Mo2045		0.2038	ppb	0.2418	118.6
Mo2816		0.6092	ppb	0.7288	119.6
Mo2848		0.9405	ppb	0.9032	96.03
Ni2316		0.2724	ppb	0.1346	49.40
Pb2203		-0.6603	ppb	0.5534	83.81
Sb2068		-0.5630	ppb	0.2628	46.68
Sb2175		-2.474	ppb	0.8525	34.46
Sn1899		1.683	ppb	0.07991	4.748
Sn2354		8.432	ppb	5.847	69.35
Sn2839		6.649	ppb	1.861	27.99
Ti1908		-0.1283	ppb	0.8604	670.8
V_2924		0.08042	ppb	0.3152	392.0
Zn2025		4.772	ppb	0.03188	0.6681
Zn2062		4.903	ppb	0.02657	0.5420
Sc3613		41,932	Cts/S	211.12	0.50348

**1023-068.2-DUP**

Acquire Date: 10/12/2023 1:12:58PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		11.36	ppb	0.5100	4.492
As1890		1.187	ppb	1.249	105.2
As1937		-2.921	ppb	0.8795	30.11
Au2082		-2.040	ppb	0.8982	44.03
Au2427		-0.2186	ppb	0.5689	260.2
Au2675		0.8898	ppb	1.426	160.2
Ba2335		0.5021	ppb	0.03211	6.395
Ba4554		0.3471	ppb	0.03621	10.43
Be3130		0.0004600	ppb	0.004370	9.471
Ca3179		83.42	ppb	0.5084	0.6095
Ca3933		86.96	ppb	0.3259	0.3748
Cd2144		-0.01754	ppb	0.03118	177.8
Cd2288		-0.03300	ppb	0.01157	35.05
Co2286		0.05637	ppb	0.1457	258.5
Cr2677		15.69	ppb	0.4753	3.029
Cu3247		0.9808	ppb	0.1107	11.29
Cu3273		1.304	ppb	0.05310	4.072
Fe2382		17.26	ppb	0.5171	2.996
Fe2599		17.60	ppb	0.2556	1.453
Mn2576		1.806	ppb	0.05310	2.939
Mo2020		-0.03385	ppb	0.06650	196.4
Mo2045		-0.3369	ppb	0.3303	98.05
Mo2816		0.3578	ppb	1.398	390.7
Mo2848		-0.4819	ppb	1.092	226.5
Ni2316		0.6041	ppb	0.1058	17.52



**1023-068.2-DUP**

Acquire Date: 10/12/2023 1:12:58PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Pb2203		-1.547	ppb	0.4546	29.39
Sb2068		-1.716	ppb	1.863	108.6
Sb2175		-3.401	ppb	0.8898	26.16
Sn1899		1.979	ppb	0.4950	25.01
Sn2354		-0.1889	ppb	5.796	3,069
Sn2839		8.101	ppb	0.5131	6.334
Tl1908		-0.5786	ppb	0.7414	128.1
V_2924		-0.07933	ppb	0.5421	683.4
Zn2025		4.756	ppb	0.07642	1.607
Zn2062		4.866	ppb	0.03421	0.7031
Sc3613		41,175	Cts/S	114.17	0.27727

**1023-068.3**

Acquire Date: 10/12/2023 1:17:06PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		9.654	ppb	0.2315	2.398
As1890		1.785	ppb	0.9367	52.47
As1937		-1.767	ppb	0.7532	42.62
Au2082		-2.442	ppb	0.6643	27.21
Au2427		-1.233	ppb	0.9912	80.36
Au2675		2.126	ppb	1.863	87.66
Ba2335		0.3925	ppb	0.03177	8.092
Ba4554		0.2593	ppb	0.02049	7.900
Be3130		-0.01413	ppb	0.01381	97.75
Ca3179		88.73	ppb	0.6215	0.7004
Ca3933		92.72	ppb	0.3727	0.4020
Cd2144		0.01270	ppb	0.04820	379.5
Cd2288		-0.1575	ppb	0.08157	51.77
Co2286		0.1650	ppb	0.1190	72.09
Cr2677		10.75	ppb	0.09873	0.9183
Cu3247		1.093	ppb	0.1212	11.09
Cu3273		1.332	ppb	0.3901	29.28
Fe2382		39.81	ppb	0.4306	1.081
Fe2599		39.19	ppb	0.5297	1.352
Mn2576		1.934	ppb	0.04721	2.442
Mo2020		-0.1304	ppb	0.1500	115.0
Mo2045		0.003415	ppb	0.1975	5,784
Mo2816		0.7208	ppb	0.9395	130.3
Mo2848		0.2349	ppb	0.2948	125.5
Ni2316		0.2887	ppb	0.1568	54.32
Pb2203		-0.1698	ppb	0.9380	552.4
Sb2068		-1.591	ppb	1.094	68.76
Sb2175		-2.827	ppb	0.1536	5.435
Sn1899		1.555	ppb	0.4285	27.55
Sn2354		10.45	ppb	6.478	62.02
Sn2839		5.036	ppb	2.737	54.35
Tl1908		-0.2445	ppb	0.9795	400.5
V_2924		0.05645	ppb	0.3873	686.1
Zn2025		6.755	ppb	0.03599	0.5328

**1023-068.3**

Acquire Date: 10/12/2023 1:17:06PM

Sample Type: Unknown

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Zn2062		6.721	ppb	0.04671	0.6951
Sc3613		41,376	Cts/S	95.026	0.22967

**ICV**

Acquire Date: 10/12/2023 1:21:16PM

Sample Type: QC

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670	F	1,014	ppb	3.431	0.3384
As1890	F	1,040	ppb	3.255	0.3131
As1937	F	993.3	ppb	1.145	0.1153
Au2082	F	995.1	ppb	3.699	0.3717
Au2427	F	997.6	ppb	5.068	0.5080
Au2675	F	996.2	ppb	2.956	0.2967
Ba2335	F	993.4	ppb	3.863	0.3889
Ba4554	F	1,008	ppb	0.3318	0.03292
Be3130	F	1,008	ppb	7.002	0.6947
Ca3179	F	991.8	ppb	5.178	0.5221
Ca3933	F	1,026	ppb	1.835	0.1789
Cd2144	F	987.4	ppb	3.690	0.3737
Cd2288	F	984.7	ppb	2.044	0.2076
Co2286	F	986.1	ppb	2.746	0.2785
Cr2677	F	983.1	ppb	2.135	0.2172
Cu3247	F	989.9	ppb	0.6265	0.06329
Cu3273	F	995.9	ppb	2.701	0.2712
Fe2382	F	985.2	ppb	2.195	0.2228
Fe2599	F	986.3	ppb	1.385	0.1404
Mn2576	F	976.4	ppb	2.177	0.2230
Mo2020	F	971.3	ppb	1.248	0.1284
Mo2045	F	980.1	ppb	3.489	0.3560
Mo2816	F	968.9	ppb	2.046	0.2112
Mo2848	F	976.7	ppb	2.314	0.2369
Ni2316	F	982.4	ppb	2.663	0.2711
Pb2203	F	990.2	ppb	1.684	0.1701
Sb2068	F	976.1	ppb	2.498	0.2559
Sb2175	F	981.8	ppb	5.009	0.5102
Sn1899	F	984.5	ppb	4.496	0.4567
Sn2354	F	970.6	ppb	2.332	0.2403
Sn2839	F	980.8	ppb	2.287	0.2332
Tl1908	F	988.7	ppb	3.258	0.3296
V_2924	F	985.2	ppb	1.394	0.1415
Zn2025	F	985.9	ppb	2.674	0.2712
Zn2062	F	985.7	ppb	4.509	0.4574
Sc3613		40,264	Cts/S	155.05	0.38509

**ICB**

Acquire Date: 10/12/2023 1:25:20PM

Sample Type: QC

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

**ICB**

Acquire Date: 10/12/2023 1:25:20PM

Sample Type: QC

Method Name: 1023-068 101223

Method Revision: 2

Analyst Name: admin

Elem	Flags	Avg	Units	Stddev	%RSD
Al1670		0.3753	ppb	0.5135	136.8
As1890		-0.1126	ppb	2.110	1,873
As1937		0.09942	ppb	0.5134	516.4
Au2082		-2.031	ppb	0.8324	40.98
Au2427		0.5547	ppb	0.9747	175.7
Au2675		2.807	ppb	0.7764	27.66
Ba2335		0.1401	ppb	0.05960	42.55
Ba4554		-0.01384	ppb	0.02861	206.8
Be3130		0.02005	ppb	0.01328	66.25
Ca3179		5.650	ppb	0.2897	5.128
Ca3933		5.416	ppb	0.08130	1.501
Cd2144		0.02869	ppb	0.006614	23.05
Cd2288		0.002345	ppb	0.1160	4,947
Co2286		0.2200	ppb	0.3244	147.5
Cr2677		0.1394	ppb	0.06173	44.27
Cu3247		-0.8744	ppb	0.1431	16.36
Cu3273		0.1121	ppb	0.3178	283.5
Fe2382		-0.1424	ppb	0.1266	88.89
Fe2599		0.5378	ppb	0.03314	6.162
Mn2576		0.08183	ppb	0.04365	53.34
Mo2020		0.3421	ppb	0.3079	90.00
Mo2045		0.1691	ppb	0.2630	155.6
Mo2816		0.8301	ppb	0.3647	43.93
Mo2848		-1.005	ppb	0.5938	59.09
Ni2316		0.04947	ppb	0.1834	370.6
Pb2203		0.03482	ppb	1.432	4,114
Sb2068		0.2557	ppb	0.7850	307.0
Sb2175		-2.016	ppb	0.8758	43.45
Sn1899		0.4769	ppb	0.2677	56.14
Sn2354		-0.7850	ppb	7.454	949.6
Sn2839		-0.4006	ppb	2.166	540.8
Tl1908		0.7136	ppb	0.3963	55.54
V_2924		0.2153	ppb	0.2219	103.1
Zn2025		1.428	ppb	0.04070	2.850
Zn2062		1.572	ppb	0.02441	1.553
Sc3613		40,827	Cts/S	271.11	0.66406

**This Is The Last Page  
Of This Report.**



November 27, 2023

Jessica Vickers  
Tetra Tech  
1955 Evergreen Blvd  
Building 200  
Duluth, GA 30096

RE: Project: Parker Street Mill Fire  
Pace Project No.: 92699552

Dear Jessica Vickers:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

*Angela M. Baioni*

Angela Baioni for  
Adam Phillips  
adam.phillips@pacelabs.com  
919-701-8757  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Parker Street Mill Fire  
Pace Project No.: 92699552

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### **Pace Analytical Services Charlotte**

South Carolina Laboratory ID: 99006  
9800 Kincey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001  
South Carolina Drinking Water Cert. #: 99006003  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Louisiana DoH Drinking Water #: LA029  
Virginia/VELAP Certification #: 460221

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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
North Carolina Drinking Water Certification #: 37712  
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030  
South Carolina Certification #: 99030001  
Virginia/VELAP Certification #: 460222

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92699552001	PSMF-LOC2-111723	Solid	11/17/23 15:00	11/20/23 12:27
92699552002	PSMF-LOC1-111723	Solid	11/17/23 15:35	11/20/23 12:27
92699552003	PSMF-LOC1-111723-DUP	Solid	11/17/23 15:35	11/20/23 12:27
92699552004	PSMF-LOC3-111723	Solid	11/17/23 17:00	11/20/23 12:27
92699552005	PSMF-BACK-111723	Solid	11/17/23 17:25	11/20/23 12:27
92699552006	PSMF-BACK-111723-DUP	Solid	11/17/23 17:25	11/20/23 12:27
92699552007	PSMF-TB-111723	Solid	11/17/23 22:00	11/20/23 12:27

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: Parker Street Mill Fire  
Pace Project No.: 92699552

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92699552001	PSMF-LOC2-111723	EPA 8082A	BAJ	8	PASI-C
		EPA 6010D	DBB1	22	PASI-A
		EPA 7471B	BM	1	PASI-A
		EPA 8270E	PKS	75	PASI-C
		EPA 8260D	LMB	70	PASI-C
		SW-846	KDF	1	PASI-C
92699552002	PSMF-LOC1-111723	EPA 8082A	BAJ	8	PASI-C
		EPA 6010D	DBB1	22	PASI-A
		EPA 7471B	BM	1	PASI-A
		EPA 8270E	PKS	75	PASI-C
		EPA 8260D	LMB	70	PASI-C
		SW-846	KDF	1	PASI-C
92699552003	PSMF-LOC1-111723-DUP	EPA 8082A	BAJ	8	PASI-C
		EPA 6010D	DBB1	22	PASI-A
		EPA 7471B	BM	1	PASI-A
		EPA 8270E	PKS	75	PASI-C
		EPA 8260D	LMB	70	PASI-C
		SW-846	KDF	1	PASI-C
92699552004	PSMF-LOC3-111723	EPA 8082A	BAJ	8	PASI-C
		EPA 6010D	DBB1	22	PASI-A
		EPA 7471B	BM	1	PASI-A
		EPA 8270E	PKS	75	PASI-C
		EPA 8260D	LMB	70	PASI-C
		SW-846	KDF	1	PASI-C
92699552005	PSMF-BACK-111723	EPA 8082A	BAJ	8	PASI-C
		EPA 6010D	DBB1	22	PASI-A
		EPA 7471B	BM	1	PASI-A
		EPA 8270E	PKS	75	PASI-C
		EPA 8260D	LMB	70	PASI-C
		SW-846	KDF	1	PASI-C
92699552006	PSMF-BACK-111723-DUP	EPA 8082A	BAJ	8	PASI-C
		EPA 6010D	DBB1	22	PASI-A
		EPA 7471B	BM	1	PASI-A
		EPA 8270E	PKS	75	PASI-C
		EPA 8260D	LMB	70	PASI-C
		SW-846	KDF	1	PASI-C
92699552007	PSMF-TB-111723	EPA 8270E	PKS	75	PASI-C

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260D	LMB	70	PASI-C
		SW-846	KDF	1	PASI-C

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

## REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92699552001</b>	<b>PSMF-LOC2-111723</b>					
EPA 6010D	Aluminum	3680	mg/kg	7.9	11/22/23 11:51	
EPA 6010D	Arsenic	0.99J	mg/kg	2.0	11/22/23 11:51	
EPA 6010D	Barium	20.7	mg/kg	0.79	11/22/23 11:51	
EPA 6010D	Beryllium	0.058J	mg/kg	0.079	11/22/23 11:51	
EPA 6010D	Cadmium	0.041J	mg/kg	0.079	11/22/23 11:51	
EPA 6010D	Calcium	1030	mg/kg	19.9	11/22/23 11:51	
EPA 6010D	Chromium	22.6	mg/kg	0.40	11/22/23 11:51	
EPA 6010D	Cobalt	1.7	mg/kg	0.40	11/22/23 11:51	
EPA 6010D	Copper	22.9	mg/kg	4.0	11/22/23 11:51	
EPA 6010D	Iron	11600	mg/kg	397	11/22/23 11:53	
EPA 6010D	Lead	10.4	mg/kg	0.79	11/22/23 11:51	
EPA 6010D	Magnesium	1380	mg/kg	7.9	11/22/23 11:51	
EPA 6010D	Manganese	90.6	mg/kg	0.40	11/22/23 11:51	
EPA 6010D	Nickel	4.5	mg/kg	0.40	11/22/23 11:51	
EPA 6010D	Potassium	261J	mg/kg	397	11/22/23 11:51	
EPA 6010D	Sodium	32.5J	mg/kg	397	11/22/23 11:51	
EPA 6010D	Vanadium	35.4	mg/kg	0.40	11/22/23 11:51	
EPA 6010D	Zinc	41.0	mg/kg	0.79	11/22/23 11:51	
EPA 7471B	Mercury	0.014	mg/kg	0.0075	11/21/23 12:35	
EPA 8260D	Benzene	11.5	ug/kg	8.3	11/21/23 17:19	
EPA 8260D	Ethylbenzene	12.5	ug/kg	8.3	11/21/23 17:19	
EPA 8260D	Naphthalene	4.7J	ug/kg	8.3	11/21/23 17:19	
EPA 8260D	Tetrachloroethene	8.5	ug/kg	8.3	11/21/23 17:19	
EPA 8260D	Toluene	14.1	ug/kg	8.3	11/21/23 17:19	
EPA 8260D	Xylene (Total)	10.2J	ug/kg	16.6	11/21/23 17:19	
EPA 8260D	m&p-Xylene	10.2J	ug/kg	16.6	11/21/23 17:19	
SW-846	Percent Moisture	24.9	%	0.10	11/21/23 13:50	N2
<b>92699552002</b>	<b>PSMF-LOC1-111723</b>					
EPA 6010D	Aluminum	4320	mg/kg	8.3	11/22/23 11:56	
EPA 6010D	Arsenic	1.5J	mg/kg	2.1	11/22/23 11:56	
EPA 6010D	Barium	64.8	mg/kg	0.83	11/22/23 11:56	
EPA 6010D	Beryllium	0.059J	mg/kg	0.083	11/22/23 11:56	
EPA 6010D	Cadmium	0.022J	mg/kg	0.083	11/22/23 11:56	
EPA 6010D	Calcium	1400	mg/kg	20.9	11/22/23 11:56	
EPA 6010D	Chromium	56.9	mg/kg	0.42	11/22/23 11:56	
EPA 6010D	Cobalt	1.6	mg/kg	0.42	11/22/23 11:56	
EPA 6010D	Copper	9.5	mg/kg	4.2	11/22/23 11:56	
EPA 6010D	Iron	17700	mg/kg	417	11/22/23 11:59	
EPA 6010D	Lead	11.0	mg/kg	0.83	11/22/23 11:56	
EPA 6010D	Magnesium	2110	mg/kg	8.3	11/22/23 11:56	
EPA 6010D	Manganese	194	mg/kg	0.42	11/22/23 11:56	
EPA 6010D	Nickel	6.8	mg/kg	0.42	11/22/23 11:56	
EPA 6010D	Potassium	1110	mg/kg	417	11/22/23 11:56	
EPA 6010D	Sodium	29.7J	mg/kg	417	11/22/23 11:56	
EPA 6010D	Vanadium	43.1	mg/kg	0.42	11/22/23 11:56	
EPA 6010D	Zinc	61.1	mg/kg	0.83	11/22/23 11:56	
EPA 7471B	Mercury	0.0070J	mg/kg	0.0072	11/21/23 12:37	

## REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92699552002</b>	<b>PSMF-LOC1-111723</b>					
EPA 8270E	Benzo(a)anthracene	281J	ug/kg	422	11/21/23 13:56	
EPA 8270E	Benzo(a)pyrene	192J	ug/kg	422	11/21/23 13:56	
EPA 8270E	Benzo(b)fluoranthene	237J	ug/kg	422	11/21/23 13:56	
EPA 8270E	Chrysene	227J	ug/kg	422	11/21/23 13:56	
EPA 8270E	Fluoranthene	593	ug/kg	422	11/21/23 13:56	
EPA 8270E	Phenanthrene	431	ug/kg	422	11/21/23 13:56	
EPA 8270E	Pyrene	441	ug/kg	422	11/21/23 13:56	
EPA 8260D	Benzene	29.2	ug/kg	10.4	11/21/23 16:43	
EPA 8260D	Ethylbenzene	17.6	ug/kg	10.4	11/21/23 16:43	
EPA 8260D	Naphthalene	147	ug/kg	10.4	11/21/23 16:43	
EPA 8260D	Styrene	39.2	ug/kg	10.4	11/21/23 16:43	
EPA 8260D	Toluene	54.0	ug/kg	10.4	11/21/23 16:43	
EPA 8260D	1,2,4-Trimethylbenzene	9.4J	ug/kg	10.4	11/21/23 16:43	
EPA 8260D	Xylene (Total)	45.4	ug/kg	20.7	11/21/23 16:43	
EPA 8260D	m&p-Xylene	31.6	ug/kg	20.7	11/21/23 16:43	
EPA 8260D	o-Xylene	13.8	ug/kg	10.4	11/21/23 16:43	
SW-846	Percent Moisture	22.1	%	0.10	11/21/23 13:50	N2
<b>92699552003</b>	<b>PSMF-LOC1-111723-DUP</b>					
EPA 6010D	Aluminum	4750	mg/kg	8.0	11/22/23 12:58	
EPA 6010D	Arsenic	2.2	mg/kg	2.0	11/22/23 12:58	
EPA 6010D	Barium	32.4	mg/kg	0.80	11/22/23 12:58	
EPA 6010D	Beryllium	0.060J	mg/kg	0.080	11/22/23 12:58	
EPA 6010D	Cadmium	1.3	mg/kg	0.080	11/22/23 12:58	
EPA 6010D	Calcium	1340	mg/kg	20.1	11/22/23 12:58	
EPA 6010D	Chromium	65.4	mg/kg	0.40	11/22/23 12:58	
EPA 6010D	Cobalt	7.3	mg/kg	0.40	11/22/23 12:58	
EPA 6010D	Copper	15.6	mg/kg	4.0	11/22/23 12:58	
EPA 6010D	Iron	22000	mg/kg	402	11/22/23 13:01	
EPA 6010D	Lead	10.4	mg/kg	0.80	11/22/23 12:58	
EPA 6010D	Magnesium	2590	mg/kg	8.0	11/22/23 12:58	
EPA 6010D	Manganese	245	mg/kg	0.40	11/22/23 12:58	
EPA 6010D	Nickel	7.8	mg/kg	0.40	11/22/23 12:58	
EPA 6010D	Potassium	251J	mg/kg	402	11/22/23 12:58	
EPA 6010D	Sodium	38.6J	mg/kg	402	11/22/23 12:58	
EPA 6010D	Vanadium	50.8	mg/kg	0.40	11/22/23 12:58	
EPA 6010D	Zinc	84.8	mg/kg	0.80	11/22/23 12:58	
EPA 8260D	Benzene	7.6J	ug/kg	7.7	11/21/23 17:01	
EPA 8260D	Ethylbenzene	10.4	ug/kg	7.7	11/21/23 17:01	
EPA 8260D	Naphthalene	9.7	ug/kg	7.7	11/21/23 17:01	
EPA 8260D	Toluene	10.1	ug/kg	7.7	11/21/23 17:01	
EPA 8260D	Xylene (Total)	8.2J	ug/kg	15.3	11/21/23 17:01	
EPA 8260D	m&p-Xylene	8.2J	ug/kg	15.3	11/21/23 17:01	
SW-846	Percent Moisture	21.1	%	0.10	11/21/23 13:50	N2
<b>92699552004</b>	<b>PSMF-LOC3-111723</b>					
EPA 6010D	Aluminum	5400	mg/kg	93.1	11/22/23 12:10	M1
EPA 6010D	Arsenic	2.8	mg/kg	2.3	11/22/23 12:07	

## REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92699552004</b>	<b>PSMF-LOC3-111723</b>					
EPA 6010D	Barium	31.1	mg/kg	0.93	11/22/23 12:07	
EPA 6010D	Beryllium	0.11	mg/kg	0.093	11/22/23 12:07	
EPA 6010D	Cadmium	0.029J	mg/kg	0.093	11/22/23 12:07	
EPA 6010D	Calcium	1720	mg/kg	23.3	11/22/23 12:07	M1, R1
EPA 6010D	Chromium	67.9	mg/kg	0.47	11/22/23 12:07	
EPA 6010D	Cobalt	5.4	mg/kg	0.47	11/22/23 12:07	M1, R1
EPA 6010D	Copper	18.1	mg/kg	4.7	11/22/23 12:07	M1
EPA 6010D	Iron	30600	mg/kg	466	11/22/23 12:10	M1
EPA 6010D	Lead	28.0	mg/kg	0.93	11/22/23 12:07	M1
EPA 6010D	Magnesium	1530	mg/kg	9.3	11/22/23 12:07	M1, R1
EPA 6010D	Manganese	249	mg/kg	0.47	11/22/23 12:07	M1, R1
EPA 6010D	Nickel	6.8	mg/kg	0.47	11/22/23 12:07	
EPA 6010D	Potassium	230J	mg/kg	466	11/22/23 12:07	M1
EPA 6010D	Sodium	45.1J	mg/kg	466	11/22/23 12:07	
EPA 6010D	Vanadium	103	mg/kg	0.47	11/22/23 12:07	
EPA 6010D	Zinc	53.0	mg/kg	0.93	11/22/23 12:07	
EPA 8260D	Benzene	3.9	ug/kg	3.6	11/21/23 15:47	
EPA 8260D	Ethylbenzene	3.3J	ug/kg	3.6	11/21/23 15:47	
EPA 8260D	Naphthalene	3.1J	ug/kg	3.6	11/21/23 15:47	R1
EPA 8260D	Tetrachloroethene	1.8J	ug/kg	3.6	11/21/23 15:47	
EPA 8260D	Toluene	5.2	ug/kg	3.6	11/21/23 15:47	
EPA 8260D	Xylene (Total)	3.5J	ug/kg	7.1	11/21/23 15:47	
EPA 8260D	m&p-Xylene	3.5J	ug/kg	7.1	11/21/23 15:47	
SW-846	Percent Moisture	15.7	%	0.10	11/21/23 13:50	N2
<b>92699552005</b>	<b>PSMF-BACK-111723</b>					
EPA 6010D	Aluminum	1830	mg/kg	8.3	11/22/23 12:30	
EPA 6010D	Arsenic	0.67J	mg/kg	2.1	11/22/23 12:30	
EPA 6010D	Barium	14.3	mg/kg	0.83	11/22/23 12:30	
EPA 6010D	Beryllium	0.045J	mg/kg	0.083	11/22/23 12:30	
EPA 6010D	Calcium	397	mg/kg	20.8	11/22/23 12:30	
EPA 6010D	Chromium	12.4	mg/kg	0.42	11/22/23 12:30	
EPA 6010D	Cobalt	1.2	mg/kg	0.42	11/22/23 12:30	
EPA 6010D	Copper	4.2	mg/kg	4.2	11/22/23 12:30	
EPA 6010D	Iron	7170	mg/kg	41.6	11/22/23 12:30	
EPA 6010D	Lead	3.6	mg/kg	0.83	11/22/23 12:30	
EPA 6010D	Magnesium	341	mg/kg	8.3	11/22/23 12:30	
EPA 6010D	Manganese	36.4	mg/kg	0.42	11/22/23 12:30	
EPA 6010D	Nickel	2.1	mg/kg	0.42	11/22/23 12:30	
EPA 6010D	Potassium	115J	mg/kg	416	11/22/23 12:30	
EPA 6010D	Sodium	20.5J	mg/kg	416	11/22/23 12:30	
EPA 6010D	Vanadium	29.9	mg/kg	0.42	11/22/23 12:30	
EPA 6010D	Zinc	11.7	mg/kg	0.83	11/22/23 12:30	
EPA 8260D	Benzene	10.0J	ug/kg	11.5	11/21/23 16:06	
EPA 8260D	Ethylbenzene	11.1J	ug/kg	11.5	11/21/23 16:06	
EPA 8260D	Tetrachloroethene	7.1J	ug/kg	11.5	11/21/23 16:06	
EPA 8260D	Toluene	17.9	ug/kg	11.5	11/21/23 16:06	
EPA 8260D	1,2,4-Trimethylbenzene	6.9J	ug/kg	11.5	11/21/23 16:06	

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## SUMMARY OF DETECTION

Project: Parker Street Mill Fire  
Pace Project No.: 92699552

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92699552005</b>	<b>PSMF-BACK-111723</b>					
EPA 8260D	Xylene (Total)	12.1J	ug/kg	22.9	11/21/23 16:06	
EPA 8260D	m&p-Xylene	12.1J	ug/kg	22.9	11/21/23 16:06	
SW-846	Percent Moisture	32.4	%	0.10	11/21/23 13:50	N2
<b>92699552006</b>	<b>PSMF-BACK-111723-DUP</b>					
EPA 6010D	Aluminum	1810	mg/kg	7.9	11/22/23 12:47	
EPA 6010D	Arsenic	0.80J	mg/kg	2.0	11/22/23 12:47	
EPA 6010D	Barium	15.1	mg/kg	0.79	11/22/23 12:47	
EPA 6010D	Beryllium	0.040J	mg/kg	0.079	11/22/23 12:47	
EPA 6010D	Calcium	296	mg/kg	19.8	11/22/23 12:47	
EPA 6010D	Chromium	10.4	mg/kg	0.40	11/22/23 12:47	
EPA 6010D	Cobalt	0.35J	mg/kg	0.40	11/22/23 12:47	
EPA 6010D	Copper	4.1	mg/kg	4.0	11/22/23 12:47	
EPA 6010D	Iron	9560	mg/kg	396	11/22/23 12:50	
EPA 6010D	Lead	3.7	mg/kg	0.79	11/22/23 12:47	
EPA 6010D	Magnesium	402	mg/kg	7.9	11/22/23 12:47	
EPA 6010D	Manganese	45.6	mg/kg	0.40	11/22/23 12:47	
EPA 6010D	Nickel	1.9	mg/kg	0.40	11/22/23 12:47	
EPA 6010D	Potassium	124J	mg/kg	396	11/22/23 12:47	
EPA 6010D	Sodium	19.5J	mg/kg	396	11/22/23 12:47	
EPA 6010D	Vanadium	27.9	mg/kg	0.40	11/22/23 12:47	
EPA 6010D	Zinc	12.2	mg/kg	0.79	11/22/23 12:47	
EPA 8260D	Benzene	16.3	ug/kg	8.1	11/21/23 16:24	
EPA 8260D	Ethylbenzene	7.9J	ug/kg	8.1	11/21/23 16:24	
EPA 8260D	Toluene	88.0	ug/kg	8.1	11/21/23 16:24	
EPA 8260D	1,2,4-Trimethylbenzene	5.1J	ug/kg	8.1	11/21/23 16:24	
EPA 8260D	Xylene (Total)	10.5J	ug/kg	16.1	11/21/23 16:24	
EPA 8260D	m&p-Xylene	10.5J	ug/kg	16.1	11/21/23 16:24	
SW-846	Percent Moisture	29.8	%	0.10	11/21/23 13:50	N2
<b>92699552007</b>	<b>PSMF-TB-111723</b>					
EPA 8260D	Benzene	10.0	ug/kg	5.0	11/21/23 17:38	
EPA 8260D	Ethylbenzene	8.5	ug/kg	5.0	11/21/23 17:38	
EPA 8260D	Toluene	13.2	ug/kg	5.0	11/21/23 17:38	
EPA 8260D	1,2,4-Trimethylbenzene	3.0J	ug/kg	5.0	11/21/23 17:38	
EPA 8260D	Xylene (Total)	8.0J	ug/kg	10.0	11/21/23 17:38	
EPA 8260D	m&p-Xylene	8.0J	ug/kg	10.0	11/21/23 17:38	
SW-846	Percent Moisture	0.21	%	0.10	11/21/23 13:50	N2

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC2-111723 Lab ID: 92699552001 Collected: 11/17/23 15:00 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
PCB-1016 (Aroclor 1016)	ND	ug/kg	44.7	17.7	1	11/21/23 10:41	11/21/23 14:02	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	44.7	30.0	1	11/21/23 10:41	11/21/23 14:02	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	44.7	19.9	1	11/21/23 10:41	11/21/23 14:02	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	44.7	10.8	1	11/21/23 10:41	11/21/23 14:02	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	44.7	12.1	1	11/21/23 10:41	11/21/23 14:02	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	44.7	19.6	1	11/21/23 10:41	11/21/23 14:02	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	44.7	19.8	1	11/21/23 10:41	11/21/23 14:02	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	97	%	10-174		1	11/21/23 10:41	11/21/23 14:02	2051-24-3	
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Asheville									
Aluminum	<b>3680</b>	mg/kg	7.9	1.7	1	11/21/23 10:50	11/22/23 11:51	7429-90-5	
Antimony	ND	mg/kg	2.0	1.1	1	11/21/23 10:50	11/22/23 11:51	7440-36-0	
Arsenic	<b>0.99J</b>	mg/kg	2.0	0.32	1	11/21/23 10:50	11/22/23 11:51	7440-38-2	
Barium	<b>20.7</b>	mg/kg	0.79	0.090	1	11/21/23 10:50	11/22/23 11:51	7440-39-3	
Beryllium	<b>0.058J</b>	mg/kg	0.079	0.010	1	11/21/23 10:50	11/22/23 11:51	7440-41-7	
Cadmium	<b>0.041J</b>	mg/kg	0.079	0.021	1	11/21/23 10:50	11/22/23 11:51	7440-43-9	
Calcium	<b>1030</b>	mg/kg	19.9	4.5	1	11/21/23 10:50	11/22/23 11:51	7440-70-2	
Chromium	<b>22.6</b>	mg/kg	0.40	0.060	1	11/21/23 10:50	11/22/23 11:51	7440-47-3	
Cobalt	<b>1.7</b>	mg/kg	0.40	0.26	1	11/21/23 10:50	11/22/23 11:51	7440-48-4	
Copper	<b>22.9</b>	mg/kg	4.0	0.075	1	11/21/23 10:50	11/22/23 11:51	7440-50-8	
Iron	<b>11600</b>	mg/kg	397	35.8	10	11/21/23 10:50	11/22/23 11:53	7439-89-6	
Lead	<b>10.4</b>	mg/kg	0.79	0.21	1	11/21/23 10:50	11/22/23 11:51	7439-92-1	
Magnesium	<b>1380</b>	mg/kg	7.9	0.54	1	11/21/23 10:50	11/22/23 11:51	7439-95-4	
Manganese	<b>90.6</b>	mg/kg	0.40	0.080	1	11/21/23 10:50	11/22/23 11:51	7439-96-5	
Nickel	<b>4.5</b>	mg/kg	0.40	0.068	1	11/21/23 10:50	11/22/23 11:51	7440-02-0	
Potassium	<b>261J</b>	mg/kg	397	9.7	1	11/21/23 10:50	11/22/23 11:51	7440-09-7	
Selenium	ND	mg/kg	0.79	0.61	1	11/21/23 10:50	11/22/23 11:51	7782-49-2	
Silver	ND	mg/kg	0.40	0.037	1	11/21/23 10:50	11/22/23 11:51	7440-22-4	
Sodium	<b>32.5J</b>	mg/kg	397	14.6	1	11/21/23 10:50	11/22/23 11:51	7440-23-5	
Thallium	ND	mg/kg	0.79	0.31	1	11/21/23 10:50	11/22/23 11:51	7440-28-0	
Vanadium	<b>35.4</b>	mg/kg	0.40	0.11	1	11/21/23 10:50	11/22/23 11:51	7440-62-2	
Zinc	<b>41.0</b>	mg/kg	0.79	0.48	1	11/21/23 10:50	11/22/23 11:51	7440-66-6	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Pace Analytical Services - Asheville									
Mercury	<b>0.014</b>	mg/kg	0.0075	0.0046	1	11/21/23 11:38	11/21/23 12:35	7439-97-6	
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/kg	444	156	1	11/21/23 10:26	11/21/23 13:29	83-32-9	
Acenaphthylene	ND	ug/kg	444	156	1	11/21/23 10:26	11/21/23 13:29	208-96-8	
Aniline	ND	ug/kg	444	173	1	11/21/23 10:26	11/21/23 13:29	62-53-3	

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC2-111723 Lab ID: 92699552001 Collected: 11/17/23 15:00 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
Anthracene	ND	ug/kg	444	145	1	11/21/23 10:26	11/21/23 13:29	120-12-7	
Benzo(a)anthracene	ND	ug/kg	444	148	1	11/21/23 10:26	11/21/23 13:29	56-55-3	
Benzo(a)pyrene	ND	ug/kg	444	153	1	11/21/23 10:26	11/21/23 13:29	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	444	148	1	11/21/23 10:26	11/21/23 13:29	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	444	172	1	11/21/23 10:26	11/21/23 13:29	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	444	156	1	11/21/23 10:26	11/21/23 13:29	207-08-9	
Benzoic Acid	ND	ug/kg	2220	953	1	11/21/23 10:26	11/21/23 13:29	65-85-0	v1
Benzyl alcohol	ND	ug/kg	887	336	1	11/21/23 10:26	11/21/23 13:29	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	444	171	1	11/21/23 10:26	11/21/23 13:29	101-55-3	
Butylbenzylphthalate	ND	ug/kg	444	187	1	11/21/23 10:26	11/21/23 13:29	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	887	312	1	11/21/23 10:26	11/21/23 13:29	59-50-7	
4-Chloroaniline	ND	ug/kg	887	348	1	11/21/23 10:26	11/21/23 13:29	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	444	184	1	11/21/23 10:26	11/21/23 13:29	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	444	167	1	11/21/23 10:26	11/21/23 13:29	111-44-4	
2-Chloronaphthalene	ND	ug/kg	444	176	1	11/21/23 10:26	11/21/23 13:29	91-58-7	
2-Chlorophenol	ND	ug/kg	444	167	1	11/21/23 10:26	11/21/23 13:29	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	444	165	1	11/21/23 10:26	11/21/23 13:29	7005-72-3	
Chrysene	ND	ug/kg	444	161	1	11/21/23 10:26	11/21/23 13:29	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	444	171	1	11/21/23 10:26	11/21/23 13:29	53-70-3	
Dibenzofuran	ND	ug/kg	444	160	1	11/21/23 10:26	11/21/23 13:29	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	444	160	1	11/21/23 10:26	11/21/23 13:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	444	157	1	11/21/23 10:26	11/21/23 13:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	444	169	1	11/21/23 10:26	11/21/23 13:29	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	887	300	1	11/21/23 10:26	11/21/23 13:29	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	444	173	1	11/21/23 10:26	11/21/23 13:29	120-83-2	
Diethylphthalate	ND	ug/kg	444	163	1	11/21/23 10:26	11/21/23 13:29	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	444	184	1	11/21/23 10:26	11/21/23 13:29	105-67-9	
Dimethylphthalate	ND	ug/kg	444	161	1	11/21/23 10:26	11/21/23 13:29	131-11-3	
Di-n-butylphthalate	ND	ug/kg	444	149	1	11/21/23 10:26	11/21/23 13:29	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	887	414	1	11/21/23 10:26	11/21/23 13:29	534-52-1	v1
2,4-Dinitrophenol	ND	ug/kg	2220	1370	1	11/21/23 10:26	11/21/23 13:29	51-28-5	v1
2,4-Dinitrotoluene	ND	ug/kg	444	171	1	11/21/23 10:26	11/21/23 13:29	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	444	163	1	11/21/23 10:26	11/21/23 13:29	606-20-2	
Di-n-octylphthalate	ND	ug/kg	444	175	1	11/21/23 10:26	11/21/23 13:29	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	444	172	1	11/21/23 10:26	11/21/23 13:29	117-81-7	
Fluoranthene	ND	ug/kg	444	152	1	11/21/23 10:26	11/21/23 13:29	206-44-0	
Fluorene	ND	ug/kg	444	156	1	11/21/23 10:26	11/21/23 13:29	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	444	192	1	11/21/23 10:26	11/21/23 13:29	87-68-3	
Hexachlorobenzene	ND	ug/kg	444	173	1	11/21/23 10:26	11/21/23 13:29	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	444	254	1	11/21/23 10:26	11/21/23 13:29	77-47-4	
Hexachloroethane	ND	ug/kg	444	169	1	11/21/23 10:26	11/21/23 13:29	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	444	175	1	11/21/23 10:26	11/21/23 13:29	193-39-5	
Isophorone	ND	ug/kg	444	198	1	11/21/23 10:26	11/21/23 13:29	78-59-1	
1-Methylnaphthalene	ND	ug/kg	444	156	1	11/21/23 10:26	11/21/23 13:29	90-12-0	

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC2-111723 Lab ID: 92699552001 Collected: 11/17/23 15:00 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
2-Methylnaphthalene	ND	ug/kg	444	177	1	11/21/23 10:26	11/21/23 13:29	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	444	181	1	11/21/23 10:26	11/21/23 13:29	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	444	179	1	11/21/23 10:26	11/21/23 13:29	15831-10-4	
Naphthalene	ND	ug/kg	444	151	1	11/21/23 10:26	11/21/23 13:29	91-20-3	
2-Nitroaniline	ND	ug/kg	2220	363	1	11/21/23 10:26	11/21/23 13:29	88-74-4	
3-Nitroaniline	ND	ug/kg	2220	348	1	11/21/23 10:26	11/21/23 13:29	99-09-2	
4-Nitroaniline	ND	ug/kg	887	337	1	11/21/23 10:26	11/21/23 13:29	100-01-6	
Nitrobenzene	ND	ug/kg	444	206	1	11/21/23 10:26	11/21/23 13:29	98-95-3	
2-Nitrophenol	ND	ug/kg	444	192	1	11/21/23 10:26	11/21/23 13:29	88-75-5	
4-Nitrophenol	ND	ug/kg	2220	858	1	11/21/23 10:26	11/21/23 13:29	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	444	149	1	11/21/23 10:26	11/21/23 13:29	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	444	167	1	11/21/23 10:26	11/21/23 13:29	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	444	157	1	11/21/23 10:26	11/21/23 13:29	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	444	211	1	11/21/23 10:26	11/21/23 13:29	108-60-1	
Pentachlorophenol	ND	ug/kg	887	434	1	11/21/23 10:26	11/21/23 13:29	87-86-5	
Phenanthrene	ND	ug/kg	444	145	1	11/21/23 10:26	11/21/23 13:29	85-01-8	
Phenol	ND	ug/kg	444	198	1	11/21/23 10:26	11/21/23 13:29	108-95-2	
Pyrene	ND	ug/kg	444	180	1	11/21/23 10:26	11/21/23 13:29	129-00-0	
Pyridine	ND	ug/kg	444	140	1	11/21/23 10:26	11/21/23 13:29	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/kg	444	175	1	11/21/23 10:26	11/21/23 13:29	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	444	203	1	11/21/23 10:26	11/21/23 13:29	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	444	183	1	11/21/23 10:26	11/21/23 13:29	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	47	%	10-130		1	11/21/23 10:26	11/21/23 13:29	4165-60-0	
2-Fluorobiphenyl (S)	33	%	10-130		1	11/21/23 10:26	11/21/23 13:29	321-60-8	
Terphenyl-d14 (S)	31	%	10-130		1	11/21/23 10:26	11/21/23 13:29	1718-51-0	
Phenol-d6 (S)	48	%	10-130		1	11/21/23 10:26	11/21/23 13:29	13127-88-3	
2-Fluorophenol (S)	48	%	10-130		1	11/21/23 10:26	11/21/23 13:29	367-12-4	
2,4,6-Tribromophenol (S)	44	%	10-130		1	11/21/23 10:26	11/21/23 13:29	118-79-6	
<b>8260D/5035A/5030B Volatiles</b>									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/kg	166	53.3	1	11/21/23 10:54	11/21/23 17:19	67-64-1	
Benzene	11.5	ug/kg	8.3	3.3	1	11/21/23 10:54	11/21/23 17:19	71-43-2	
Bromobenzene	ND	ug/kg	8.3	2.7	1	11/21/23 10:54	11/21/23 17:19	108-86-1	
Bromochloromethane	ND	ug/kg	8.3	2.5	1	11/21/23 10:54	11/21/23 17:19	74-97-5	
Bromodichloromethane	ND	ug/kg	8.3	3.2	1	11/21/23 10:54	11/21/23 17:19	75-27-4	
Bromoform	ND	ug/kg	8.3	2.9	1	11/21/23 10:54	11/21/23 17:19	75-25-2	
Bromomethane	ND	ug/kg	33.2	25.8	1	11/21/23 10:54	11/21/23 17:19	74-83-9	
2-Butanone (MEK)	ND	ug/kg	166	39.9	1	11/21/23 10:54	11/21/23 17:19	78-93-3	
n-Butylbenzene	ND	ug/kg	8.3	5.2	1	11/21/23 10:54	11/21/23 17:19	104-51-8	
sec-Butylbenzene	ND	ug/kg	8.3	3.7	1	11/21/23 10:54	11/21/23 17:19	135-98-8	
tert-Butylbenzene	ND	ug/kg	8.3	3.0	1	11/21/23 10:54	11/21/23 17:19	98-06-6	v1
Carbon tetrachloride	ND	ug/kg	8.3	3.1	1	11/21/23 10:54	11/21/23 17:19	56-23-5	IK

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC2-111723 Lab ID: 92699552001 Collected: 11/17/23 15:00 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B Volatiles									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
Chlorobenzene	ND	ug/kg	8.3	4.8	1	11/21/23 10:54	11/21/23 17:19	108-90-7	
Chloroethane	ND	ug/kg	16.6	6.4	1	11/21/23 10:54	11/21/23 17:19	75-00-3	
Chloroform	ND	ug/kg	8.3	6.9	1	11/21/23 10:54	11/21/23 17:19	67-66-3	
Chloromethane	ND	ug/kg	16.6	7.0	1	11/21/23 10:54	11/21/23 17:19	74-87-3	
2-Chlorotoluene	ND	ug/kg	8.3	2.9	1	11/21/23 10:54	11/21/23 17:19	95-49-8	
4-Chlorotoluene	ND	ug/kg	8.3	4.6	1	11/21/23 10:54	11/21/23 17:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	8.3	3.2	1	11/21/23 10:54	11/21/23 17:19	96-12-8	
Dibromochloromethane	ND	ug/kg	8.3	4.7	1	11/21/23 10:54	11/21/23 17:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	8.3	3.7	1	11/21/23 10:54	11/21/23 17:19	106-93-4	
Dibromomethane	ND	ug/kg	8.3	1.8	1	11/21/23 10:54	11/21/23 17:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	8.3	3.0	1	11/21/23 10:54	11/21/23 17:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	8.3	2.6	1	11/21/23 10:54	11/21/23 17:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	8.3	2.2	1	11/21/23 10:54	11/21/23 17:19	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	16.6	8.5	1	11/21/23 10:54	11/21/23 17:19	75-71-8	v1
1,1-Dichloroethane	ND	ug/kg	8.3	3.4	1	11/21/23 10:54	11/21/23 17:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	8.3	5.5	1	11/21/23 10:54	11/21/23 17:19	107-06-2	
1,1-Dichloroethene	ND	ug/kg	8.3	3.4	1	11/21/23 10:54	11/21/23 17:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	8.3	2.8	1	11/21/23 10:54	11/21/23 17:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	8.3	7.1	1	11/21/23 10:54	11/21/23 17:19	156-60-5	
1,2-Dichloropropane	ND	ug/kg	8.3	2.5	1	11/21/23 10:54	11/21/23 17:19	78-87-5	
1,3-Dichloropropane	ND	ug/kg	8.3	2.6	1	11/21/23 10:54	11/21/23 17:19	142-28-9	
2,2-Dichloropropane	ND	ug/kg	8.3	6.3	1	11/21/23 10:54	11/21/23 17:19	594-20-7	
1,1-Dichloropropene	ND	ug/kg	8.3	4.0	1	11/21/23 10:54	11/21/23 17:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	8.3	2.3	1	11/21/23 10:54	11/21/23 17:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	8.3	2.9	1	11/21/23 10:54	11/21/23 17:19	10061-02-6	
Diisopropyl ether	ND	ug/kg	8.3	2.2	1	11/21/23 10:54	11/21/23 17:19	108-20-3	
Ethylbenzene	12.5	ug/kg	8.3	3.9	1	11/21/23 10:54	11/21/23 17:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	16.6	13.6	1	11/21/23 10:54	11/21/23 17:19	87-68-3	
2-Hexanone	ND	ug/kg	83.1	8.0	1	11/21/23 10:54	11/21/23 17:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	8.3	2.8	1	11/21/23 10:54	11/21/23 17:19	98-82-8	
p-Isopropyltoluene	ND	ug/kg	8.3	4.1	1	11/21/23 10:54	11/21/23 17:19	99-87-6	
Methylene Chloride	ND	ug/kg	33.2	22.8	1	11/21/23 10:54	11/21/23 17:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	83.1	8.0	1	11/21/23 10:54	11/21/23 17:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	8.3	3.1	1	11/21/23 10:54	11/21/23 17:19	1634-04-4	
Naphthalene	4.7J	ug/kg	8.3	4.4	1	11/21/23 10:54	11/21/23 17:19	91-20-3	
n-Propylbenzene	ND	ug/kg	8.3	3.0	1	11/21/23 10:54	11/21/23 17:19	103-65-1	
Styrene	ND	ug/kg	8.3	2.2	1	11/21/23 10:54	11/21/23 17:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	8.3	3.2	1	11/21/23 10:54	11/21/23 17:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	8.3	2.2	1	11/21/23 10:54	11/21/23 17:19	79-34-5	
Tetrachloroethene	8.5	ug/kg	8.3	2.6	1	11/21/23 10:54	11/21/23 17:19	127-18-4	
Toluene	14.1	ug/kg	8.3	5.7	1	11/21/23 10:54	11/21/23 17:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	8.3	6.7	1	11/21/23 10:54	11/21/23 17:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	8.3	7.0	1	11/21/23 10:54	11/21/23 17:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	8.3	4.3	1	11/21/23 10:54	11/21/23 17:19	71-55-6	

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC2-111723 Lab ID: 92699552001 Collected: 11/17/23 15:00 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D/5035A/5030B Volatiles</b>									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/kg	8.3	2.8	1	11/21/23 10:54	11/21/23 17:19	79-00-5	
Trichloroethene	ND	ug/kg	8.3	6.7	1	11/21/23 10:54	11/21/23 17:19	79-01-6	
Trichlorofluoromethane	ND	ug/kg	8.3	4.6	1	11/21/23 10:54	11/21/23 17:19	75-69-4	v1
1,2,3-Trichloropropane	ND	ug/kg	8.3	4.2	1	11/21/23 10:54	11/21/23 17:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	8.3	4.9	1	11/21/23 10:54	11/21/23 17:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	8.3	2.8	1	11/21/23 10:54	11/21/23 17:19	108-67-8	
Vinyl acetate	ND	ug/kg	83.1	17.1	1	11/21/23 10:54	11/21/23 17:19	108-05-4	
Vinyl chloride	ND	ug/kg	16.6	4.2	1	11/21/23 10:54	11/21/23 17:19	75-01-4	
Xylene (Total)	10.2J	ug/kg	16.6	4.7	1	11/21/23 10:54	11/21/23 17:19	1330-20-7	
m&p-Xylene	10.2J	ug/kg	16.6	5.7	1	11/21/23 10:54	11/21/23 17:19	179601-23-1	
o-Xylene	ND	ug/kg	8.3	3.7	1	11/21/23 10:54	11/21/23 17:19	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	101	%	70-130		1	11/21/23 10:54	11/21/23 17:19	2037-26-5	u8
4-Bromofluorobenzene (S)	102	%	70-130		1	11/21/23 10:54	11/21/23 17:19	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1	11/21/23 10:54	11/21/23 17:19	17060-07-0	
<b>Percent Moisture</b>									
Analytical Method: SW-846									
Pace Analytical Services - Charlotte									
Percent Moisture	24.9	%	0.10	0.10	1		11/21/23 13:50		N2

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC1-111723 Lab ID: 92699552002 Collected: 11/17/23 15:35 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.8	17.0	1	11/21/23 10:41	11/21/23 14:15	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.8	28.8	1	11/21/23 10:41	11/21/23 14:15	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.8	19.1	1	11/21/23 10:41	11/21/23 14:15	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.8	10.4	1	11/21/23 10:41	11/21/23 14:15	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.8	11.6	1	11/21/23 10:41	11/21/23 14:15	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	42.8	18.8	1	11/21/23 10:41	11/21/23 14:15	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.8	18.9	1	11/21/23 10:41	11/21/23 14:15	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	50	%	10-174		1	11/21/23 10:41	11/21/23 14:15	2051-24-3	
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Asheville									
Aluminum	<b>4320</b>	mg/kg	8.3	1.8	1	11/21/23 10:50	11/22/23 11:56	7429-90-5	
Antimony	ND	mg/kg	2.1	1.2	1	11/21/23 10:50	11/22/23 11:56	7440-36-0	
Arsenic	<b>1.5J</b>	mg/kg	2.1	0.34	1	11/21/23 10:50	11/22/23 11:56	7440-38-2	
Barium	<b>64.8</b>	mg/kg	0.83	0.094	1	11/21/23 10:50	11/22/23 11:56	7440-39-3	
Beryllium	<b>0.059J</b>	mg/kg	0.083	0.011	1	11/21/23 10:50	11/22/23 11:56	7440-41-7	
Cadmium	<b>0.022J</b>	mg/kg	0.083	0.022	1	11/21/23 10:50	11/22/23 11:56	7440-43-9	
Calcium	<b>1400</b>	mg/kg	20.9	4.7	1	11/21/23 10:50	11/22/23 11:56	7440-70-2	
Chromium	<b>56.9</b>	mg/kg	0.42	0.063	1	11/21/23 10:50	11/22/23 11:56	7440-47-3	
Cobalt	<b>1.6</b>	mg/kg	0.42	0.27	1	11/21/23 10:50	11/22/23 11:56	7440-48-4	
Copper	<b>9.5</b>	mg/kg	4.2	0.079	1	11/21/23 10:50	11/22/23 11:56	7440-50-8	
Iron	<b>17700</b>	mg/kg	417	37.6	10	11/21/23 10:50	11/22/23 11:59	7439-89-6	
Lead	<b>11.0</b>	mg/kg	0.83	0.22	1	11/21/23 10:50	11/22/23 11:56	7439-92-1	
Magnesium	<b>2110</b>	mg/kg	8.3	0.57	1	11/21/23 10:50	11/22/23 11:56	7439-95-4	
Manganese	<b>194</b>	mg/kg	0.42	0.084	1	11/21/23 10:50	11/22/23 11:56	7439-96-5	
Nickel	<b>6.8</b>	mg/kg	0.42	0.071	1	11/21/23 10:50	11/22/23 11:56	7440-02-0	
Potassium	<b>1110</b>	mg/kg	417	10.2	1	11/21/23 10:50	11/22/23 11:56	7440-09-7	
Selenium	ND	mg/kg	0.83	0.64	1	11/21/23 10:50	11/22/23 11:56	7782-49-2	
Silver	ND	mg/kg	0.42	0.039	1	11/21/23 10:50	11/22/23 11:56	7440-22-4	
Sodium	<b>29.7J</b>	mg/kg	417	15.3	1	11/21/23 10:50	11/22/23 11:56	7440-23-5	
Thallium	ND	mg/kg	0.83	0.33	1	11/21/23 10:50	11/22/23 11:56	7440-28-0	
Vanadium	<b>43.1</b>	mg/kg	0.42	0.11	1	11/21/23 10:50	11/22/23 11:56	7440-62-2	
Zinc	<b>61.1</b>	mg/kg	0.83	0.50	1	11/21/23 10:50	11/22/23 11:56	7440-66-6	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Pace Analytical Services - Asheville									
Mercury	<b>0.0070J</b>	mg/kg	0.0072	0.0045	1	11/21/23 11:38	11/21/23 12:37	7439-97-6	
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/kg	422	148	1	11/21/23 10:26	11/21/23 13:56	83-32-9	
Acenaphthylene	ND	ug/kg	422	148	1	11/21/23 10:26	11/21/23 13:56	208-96-8	
Aniline	ND	ug/kg	422	165	1	11/21/23 10:26	11/21/23 13:56	62-53-3	

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC1-111723 Lab ID: 92699552002 Collected: 11/17/23 15:35 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
Anthracene	ND	ug/kg	422	138	1	11/21/23 10:26	11/21/23 13:56	120-12-7	
Benzo(a)anthracene	281J	ug/kg	422	141	1	11/21/23 10:26	11/21/23 13:56	56-55-3	
Benzo(a)pyrene	192J	ug/kg	422	146	1	11/21/23 10:26	11/21/23 13:56	50-32-8	
Benzo(b)fluoranthene	237J	ug/kg	422	141	1	11/21/23 10:26	11/21/23 13:56	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	422	164	1	11/21/23 10:26	11/21/23 13:56	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	422	148	1	11/21/23 10:26	11/21/23 13:56	207-08-9	
Benzoic Acid	ND	ug/kg	2110	907	1	11/21/23 10:26	11/21/23 13:56	65-85-0	v1
Benzyl alcohol	ND	ug/kg	844	320	1	11/21/23 10:26	11/21/23 13:56	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	422	162	1	11/21/23 10:26	11/21/23 13:56	101-55-3	
Butylbenzylphthalate	ND	ug/kg	422	178	1	11/21/23 10:26	11/21/23 13:56	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	844	297	1	11/21/23 10:26	11/21/23 13:56	59-50-7	
4-Chloroaniline	ND	ug/kg	844	331	1	11/21/23 10:26	11/21/23 13:56	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	422	175	1	11/21/23 10:26	11/21/23 13:56	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	422	159	1	11/21/23 10:26	11/21/23 13:56	111-44-4	
2-Chloronaphthalene	ND	ug/kg	422	168	1	11/21/23 10:26	11/21/23 13:56	91-58-7	
2-Chlorophenol	ND	ug/kg	422	159	1	11/21/23 10:26	11/21/23 13:56	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	422	157	1	11/21/23 10:26	11/21/23 13:56	7005-72-3	
Chrysene	227J	ug/kg	422	154	1	11/21/23 10:26	11/21/23 13:56	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	422	162	1	11/21/23 10:26	11/21/23 13:56	53-70-3	
Dibenzofuran	ND	ug/kg	422	152	1	11/21/23 10:26	11/21/23 13:56	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	422	152	1	11/21/23 10:26	11/21/23 13:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	422	150	1	11/21/23 10:26	11/21/23 13:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	422	161	1	11/21/23 10:26	11/21/23 13:56	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	844	285	1	11/21/23 10:26	11/21/23 13:56	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	422	165	1	11/21/23 10:26	11/21/23 13:56	120-83-2	
Diethylphthalate	ND	ug/kg	422	155	1	11/21/23 10:26	11/21/23 13:56	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	422	175	1	11/21/23 10:26	11/21/23 13:56	105-67-9	
Dimethylphthalate	ND	ug/kg	422	154	1	11/21/23 10:26	11/21/23 13:56	131-11-3	
Di-n-butylphthalate	ND	ug/kg	422	142	1	11/21/23 10:26	11/21/23 13:56	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	844	394	1	11/21/23 10:26	11/21/23 13:56	534-52-1	v1
2,4-Dinitrophenol	ND	ug/kg	2110	1310	1	11/21/23 10:26	11/21/23 13:56	51-28-5	v1
2,4-Dinitrotoluene	ND	ug/kg	422	162	1	11/21/23 10:26	11/21/23 13:56	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	422	155	1	11/21/23 10:26	11/21/23 13:56	606-20-2	
Di-n-octylphthalate	ND	ug/kg	422	166	1	11/21/23 10:26	11/21/23 13:56	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	422	164	1	11/21/23 10:26	11/21/23 13:56	117-81-7	
Fluoranthene	593	ug/kg	422	145	1	11/21/23 10:26	11/21/23 13:56	206-44-0	
Fluorene	ND	ug/kg	422	148	1	11/21/23 10:26	11/21/23 13:56	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	422	183	1	11/21/23 10:26	11/21/23 13:56	87-68-3	
Hexachlorobenzene	ND	ug/kg	422	165	1	11/21/23 10:26	11/21/23 13:56	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	422	242	1	11/21/23 10:26	11/21/23 13:56	77-47-4	
Hexachloroethane	ND	ug/kg	422	161	1	11/21/23 10:26	11/21/23 13:56	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	422	166	1	11/21/23 10:26	11/21/23 13:56	193-39-5	
Isophorone	ND	ug/kg	422	188	1	11/21/23 10:26	11/21/23 13:56	78-59-1	
1-Methylnaphthalene	ND	ug/kg	422	148	1	11/21/23 10:26	11/21/23 13:56	90-12-0	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC1-111723 Lab ID: 92699552002 Collected: 11/17/23 15:35 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
2-Methylnaphthalene	ND	ug/kg	422	169	1	11/21/23 10:26	11/21/23 13:56	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	422	173	1	11/21/23 10:26	11/21/23 13:56	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	422	170	1	11/21/23 10:26	11/21/23 13:56	15831-10-4	
Naphthalene	ND	ug/kg	422	143	1	11/21/23 10:26	11/21/23 13:56	91-20-3	
2-Nitroaniline	ND	ug/kg	2110	345	1	11/21/23 10:26	11/21/23 13:56	88-74-4	
3-Nitroaniline	ND	ug/kg	2110	331	1	11/21/23 10:26	11/21/23 13:56	99-09-2	
4-Nitroaniline	ND	ug/kg	844	321	1	11/21/23 10:26	11/21/23 13:56	100-01-6	
Nitrobenzene	ND	ug/kg	422	196	1	11/21/23 10:26	11/21/23 13:56	98-95-3	
2-Nitrophenol	ND	ug/kg	422	183	1	11/21/23 10:26	11/21/23 13:56	88-75-5	
4-Nitrophenol	ND	ug/kg	2110	816	1	11/21/23 10:26	11/21/23 13:56	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	422	142	1	11/21/23 10:26	11/21/23 13:56	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	422	159	1	11/21/23 10:26	11/21/23 13:56	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	422	150	1	11/21/23 10:26	11/21/23 13:56	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	422	201	1	11/21/23 10:26	11/21/23 13:56	108-60-1	
Pentachlorophenol	ND	ug/kg	844	413	1	11/21/23 10:26	11/21/23 13:56	87-86-5	
Phenanthrene	431	ug/kg	422	138	1	11/21/23 10:26	11/21/23 13:56	85-01-8	
Phenol	ND	ug/kg	422	188	1	11/21/23 10:26	11/21/23 13:56	108-95-2	
Pyrene	441	ug/kg	422	171	1	11/21/23 10:26	11/21/23 13:56	129-00-0	
Pyridine	ND	ug/kg	422	133	1	11/21/23 10:26	11/21/23 13:56	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/kg	422	166	1	11/21/23 10:26	11/21/23 13:56	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	422	193	1	11/21/23 10:26	11/21/23 13:56	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	422	174	1	11/21/23 10:26	11/21/23 13:56	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	35	%	10-130		1	11/21/23 10:26	11/21/23 13:56	4165-60-0	
2-Fluorobiphenyl (S)	18	%	10-130		1	11/21/23 10:26	11/21/23 13:56	321-60-8	
Terphenyl-d14 (S)	15	%	10-130		1	11/21/23 10:26	11/21/23 13:56	1718-51-0	
Phenol-d6 (S)	35	%	10-130		1	11/21/23 10:26	11/21/23 13:56	13127-88-3	
2-Fluorophenol (S)	34	%	10-130		1	11/21/23 10:26	11/21/23 13:56	367-12-4	
2,4,6-Tribromophenol (S)	32	%	10-130		1	11/21/23 10:26	11/21/23 13:56	118-79-6	
<b>8260D/5035A/5030B Volatiles</b>									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/kg	207	66.5	1	11/21/23 10:54	11/21/23 16:43	67-64-1	
Benzene	29.2	ug/kg	10.4	4.1	1	11/21/23 10:54	11/21/23 16:43	71-43-2	
Bromobenzene	ND	ug/kg	10.4	3.4	1	11/21/23 10:54	11/21/23 16:43	108-86-1	
Bromochloromethane	ND	ug/kg	10.4	3.1	1	11/21/23 10:54	11/21/23 16:43	74-97-5	
Bromodichloromethane	ND	ug/kg	10.4	4.0	1	11/21/23 10:54	11/21/23 16:43	75-27-4	
Bromoform	ND	ug/kg	10.4	3.6	1	11/21/23 10:54	11/21/23 16:43	75-25-2	
Bromomethane	ND	ug/kg	41.4	32.1	1	11/21/23 10:54	11/21/23 16:43	74-83-9	
2-Butanone (MEK)	ND	ug/kg	207	49.7	1	11/21/23 10:54	11/21/23 16:43	78-93-3	
n-Butylbenzene	ND	ug/kg	10.4	6.5	1	11/21/23 10:54	11/21/23 16:43	104-51-8	
sec-Butylbenzene	ND	ug/kg	10.4	4.6	1	11/21/23 10:54	11/21/23 16:43	135-98-8	
tert-Butylbenzene	ND	ug/kg	10.4	3.7	1	11/21/23 10:54	11/21/23 16:43	98-06-6	v1
Carbon tetrachloride	ND	ug/kg	10.4	3.9	1	11/21/23 10:54	11/21/23 16:43	56-23-5	IK

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC1-111723 Lab ID: 92699552002 Collected: 11/17/23 15:35 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B Volatiles									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
Chlorobenzene	ND	ug/kg	10.4	5.9	1	11/21/23 10:54	11/21/23 16:43	108-90-7	
Chloroethane	ND	ug/kg	20.7	8.0	1	11/21/23 10:54	11/21/23 16:43	75-00-3	
Chloroform	ND	ug/kg	10.4	8.7	1	11/21/23 10:54	11/21/23 16:43	67-66-3	
Chloromethane	ND	ug/kg	20.7	8.7	1	11/21/23 10:54	11/21/23 16:43	74-87-3	
2-Chlorotoluene	ND	ug/kg	10.4	3.7	1	11/21/23 10:54	11/21/23 16:43	95-49-8	
4-Chlorotoluene	ND	ug/kg	10.4	5.8	1	11/21/23 10:54	11/21/23 16:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	10.4	4.0	1	11/21/23 10:54	11/21/23 16:43	96-12-8	
Dibromochloromethane	ND	ug/kg	10.4	5.8	1	11/21/23 10:54	11/21/23 16:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	10.4	4.6	1	11/21/23 10:54	11/21/23 16:43	106-93-4	
Dibromomethane	ND	ug/kg	10.4	2.2	1	11/21/23 10:54	11/21/23 16:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	10.4	3.7	1	11/21/23 10:54	11/21/23 16:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	10.4	3.2	1	11/21/23 10:54	11/21/23 16:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	10.4	2.7	1	11/21/23 10:54	11/21/23 16:43	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	20.7	10.5	1	11/21/23 10:54	11/21/23 16:43	75-71-8	v1
1,1-Dichloroethane	ND	ug/kg	10.4	4.3	1	11/21/23 10:54	11/21/23 16:43	75-34-3	
1,2-Dichloroethane	ND	ug/kg	10.4	6.9	1	11/21/23 10:54	11/21/23 16:43	107-06-2	
1,1-Dichloroethene	ND	ug/kg	10.4	4.3	1	11/21/23 10:54	11/21/23 16:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	10.4	3.5	1	11/21/23 10:54	11/21/23 16:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	10.4	8.8	1	11/21/23 10:54	11/21/23 16:43	156-60-5	
1,2-Dichloropropane	ND	ug/kg	10.4	3.1	1	11/21/23 10:54	11/21/23 16:43	78-87-5	
1,3-Dichloropropane	ND	ug/kg	10.4	3.2	1	11/21/23 10:54	11/21/23 16:43	142-28-9	
2,2-Dichloropropane	ND	ug/kg	10.4	7.9	1	11/21/23 10:54	11/21/23 16:43	594-20-7	
1,1-Dichloropropene	ND	ug/kg	10.4	5.0	1	11/21/23 10:54	11/21/23 16:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	10.4	2.8	1	11/21/23 10:54	11/21/23 16:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	10.4	3.6	1	11/21/23 10:54	11/21/23 16:43	10061-02-6	
Diisopropyl ether	ND	ug/kg	10.4	2.8	1	11/21/23 10:54	11/21/23 16:43	108-20-3	
Ethylbenzene	17.6	ug/kg	10.4	4.8	1	11/21/23 10:54	11/21/23 16:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	20.7	16.9	1	11/21/23 10:54	11/21/23 16:43	87-68-3	
2-Hexanone	ND	ug/kg	104	10	1	11/21/23 10:54	11/21/23 16:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	10.4	3.5	1	11/21/23 10:54	11/21/23 16:43	98-82-8	
p-Isopropyltoluene	ND	ug/kg	10.4	5.1	1	11/21/23 10:54	11/21/23 16:43	99-87-6	
Methylene Chloride	ND	ug/kg	41.4	28.4	1	11/21/23 10:54	11/21/23 16:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	104	10	1	11/21/23 10:54	11/21/23 16:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	10.4	3.9	1	11/21/23 10:54	11/21/23 16:43	1634-04-4	
Naphthalene	147	ug/kg	10.4	5.4	1	11/21/23 10:54	11/21/23 16:43	91-20-3	
n-Propylbenzene	ND	ug/kg	10.4	3.7	1	11/21/23 10:54	11/21/23 16:43	103-65-1	
Styrene	39.2	ug/kg	10.4	2.7	1	11/21/23 10:54	11/21/23 16:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	10.4	4.0	1	11/21/23 10:54	11/21/23 16:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	10.4	2.7	1	11/21/23 10:54	11/21/23 16:43	79-34-5	
Tetrachloroethene	ND	ug/kg	10.4	3.3	1	11/21/23 10:54	11/21/23 16:43	127-18-4	
Toluene	54.0	ug/kg	10.4	7.1	1	11/21/23 10:54	11/21/23 16:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	10.4	8.4	1	11/21/23 10:54	11/21/23 16:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	10.4	8.7	1	11/21/23 10:54	11/21/23 16:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	10.4	5.4	1	11/21/23 10:54	11/21/23 16:43	71-55-6	

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC1-111723 Lab ID: 92699552002 Collected: 11/17/23 15:35 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D/5035A/5030B Volatiles</b>									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/kg	10.4	3.4	1	11/21/23 10:54	11/21/23 16:43	79-00-5	
Trichloroethene	ND	ug/kg	10.4	8.3	1	11/21/23 10:54	11/21/23 16:43	79-01-6	
Trichlorofluoromethane	ND	ug/kg	10.4	5.7	1	11/21/23 10:54	11/21/23 16:43	75-69-4	v1
1,2,3-Trichloropropane	ND	ug/kg	10.4	5.2	1	11/21/23 10:54	11/21/23 16:43	96-18-4	
1,2,4-Trimethylbenzene	9.4J	ug/kg	10.4	6.2	1	11/21/23 10:54	11/21/23 16:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	10.4	3.5	1	11/21/23 10:54	11/21/23 16:43	108-67-8	
Vinyl acetate	ND	ug/kg	104	21.3	1	11/21/23 10:54	11/21/23 16:43	108-05-4	
Vinyl chloride	ND	ug/kg	20.7	5.3	1	11/21/23 10:54	11/21/23 16:43	75-01-4	
Xylene (Total)	45.4	ug/kg	20.7	5.9	1	11/21/23 10:54	11/21/23 16:43	1330-20-7	
m&p-Xylene	31.6	ug/kg	20.7	7.1	1	11/21/23 10:54	11/21/23 16:43	179601-23-1	
o-Xylene	13.8	ug/kg	10.4	4.6	1	11/21/23 10:54	11/21/23 16:43	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	101	%	70-130		1	11/21/23 10:54	11/21/23 16:43	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		1	11/21/23 10:54	11/21/23 16:43	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1	11/21/23 10:54	11/21/23 16:43	17060-07-0	
<b>Percent Moisture</b>									
Analytical Method: SW-846									
Pace Analytical Services - Charlotte									
Percent Moisture	22.1	%	0.10	0.10	1		11/21/23 13:50		N2

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC1-111723-DUP Lab ID: 92699552003 Collected: 11/17/23 15:35 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.0	16.7	1	11/21/23 10:41	11/21/23 14:27	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.0	28.2	1	11/21/23 10:41	11/21/23 14:27	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.0	18.7	1	11/21/23 10:41	11/21/23 14:27	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.0	10.2	1	11/21/23 10:41	11/21/23 14:27	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.0	11.3	1	11/21/23 10:41	11/21/23 14:27	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	42.0	18.4	1	11/21/23 10:41	11/21/23 14:27	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.0	18.6	1	11/21/23 10:41	11/21/23 14:27	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	95	%	10-174		1	11/21/23 10:41	11/21/23 14:27	2051-24-3	
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Asheville									
Aluminum	<b>4750</b>	mg/kg	8.0	1.7	1	11/22/23 00:31	11/22/23 12:58	7429-90-5	
Antimony	ND	mg/kg	2.0	1.1	1	11/22/23 00:31	11/22/23 12:58	7440-36-0	
Arsenic	<b>2.2</b>	mg/kg	2.0	0.33	1	11/22/23 00:31	11/22/23 12:58	7440-38-2	
Barium	<b>32.4</b>	mg/kg	0.80	0.091	1	11/22/23 00:31	11/22/23 12:58	7440-39-3	
Beryllium	<b>0.060J</b>	mg/kg	0.080	0.010	1	11/22/23 00:31	11/22/23 12:58	7440-41-7	
Cadmium	<b>1.3</b>	mg/kg	0.080	0.021	1	11/22/23 00:31	11/22/23 12:58	7440-43-9	
Calcium	<b>1340</b>	mg/kg	20.1	4.5	1	11/22/23 00:31	11/22/23 12:58	7440-70-2	
Chromium	<b>65.4</b>	mg/kg	0.40	0.060	1	11/22/23 00:31	11/22/23 12:58	7440-47-3	
Cobalt	<b>7.3</b>	mg/kg	0.40	0.26	1	11/22/23 00:31	11/22/23 12:58	7440-48-4	
Copper	<b>15.6</b>	mg/kg	4.0	0.076	1	11/22/23 00:31	11/22/23 12:58	7440-50-8	
Iron	<b>22000</b>	mg/kg	402	36.2	10	11/22/23 00:31	11/22/23 13:01	7439-89-6	
Lead	<b>10.4</b>	mg/kg	0.80	0.21	1	11/22/23 00:31	11/22/23 12:58	7439-92-1	
Magnesium	<b>2590</b>	mg/kg	8.0	0.55	1	11/22/23 00:31	11/22/23 12:58	7439-95-4	
Manganese	<b>245</b>	mg/kg	0.40	0.081	1	11/22/23 00:31	11/22/23 12:58	7439-96-5	
Nickel	<b>7.8</b>	mg/kg	0.40	0.068	1	11/22/23 00:31	11/22/23 12:58	7440-02-0	
Potassium	<b>251J</b>	mg/kg	402	9.8	1	11/22/23 00:31	11/22/23 12:58	7440-09-7	
Selenium	ND	mg/kg	0.80	0.62	1	11/22/23 00:31	11/22/23 12:58	7782-49-2	
Silver	ND	mg/kg	0.40	0.038	1	11/22/23 00:31	11/22/23 12:58	7440-22-4	
Sodium	<b>38.6J</b>	mg/kg	402	14.8	1	11/22/23 00:31	11/22/23 12:58	7440-23-5	
Thallium	ND	mg/kg	0.80	0.31	1	11/22/23 00:31	11/22/23 12:58	7440-28-0	
Vanadium	<b>50.8</b>	mg/kg	0.40	0.11	1	11/22/23 00:31	11/22/23 12:58	7440-62-2	
Zinc	<b>84.8</b>	mg/kg	0.80	0.48	1	11/22/23 00:31	11/22/23 12:58	7440-66-6	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Pace Analytical Services - Asheville									
Mercury	ND	mg/kg	0.0071	0.0044	1	11/23/23 16:46	11/23/23 17:34	7439-97-6	
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/kg	420	148	1	11/21/23 10:26	11/21/23 14:24	83-32-9	
Acenaphthylene	ND	ug/kg	420	148	1	11/21/23 10:26	11/21/23 14:24	208-96-8	
Aniline	ND	ug/kg	420	164	1	11/21/23 10:26	11/21/23 14:24	62-53-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC1-111723-DUP Lab ID: 92699552003 Collected: 11/17/23 15:35 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
Anthracene	ND	ug/kg	420	137	1	11/21/23 10:26	11/21/23 14:24	120-12-7	
Benzo(a)anthracene	ND	ug/kg	420	140	1	11/21/23 10:26	11/21/23 14:24	56-55-3	
Benzo(a)pyrene	ND	ug/kg	420	145	1	11/21/23 10:26	11/21/23 14:24	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	420	140	1	11/21/23 10:26	11/21/23 14:24	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	420	163	1	11/21/23 10:26	11/21/23 14:24	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	420	148	1	11/21/23 10:26	11/21/23 14:24	207-08-9	
Benzoic Acid	ND	ug/kg	2100	902	1	11/21/23 10:26	11/21/23 14:24	65-85-0	v1
Benzyl alcohol	ND	ug/kg	839	318	1	11/21/23 10:26	11/21/23 14:24	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	420	162	1	11/21/23 10:26	11/21/23 14:24	101-55-3	
Butylbenzylphthalate	ND	ug/kg	420	177	1	11/21/23 10:26	11/21/23 14:24	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	839	295	1	11/21/23 10:26	11/21/23 14:24	59-50-7	
4-Chloroaniline	ND	ug/kg	839	329	1	11/21/23 10:26	11/21/23 14:24	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	420	174	1	11/21/23 10:26	11/21/23 14:24	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	420	158	1	11/21/23 10:26	11/21/23 14:24	111-44-4	
2-Chloronaphthalene	ND	ug/kg	420	167	1	11/21/23 10:26	11/21/23 14:24	91-58-7	
2-Chlorophenol	ND	ug/kg	420	158	1	11/21/23 10:26	11/21/23 14:24	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	420	156	1	11/21/23 10:26	11/21/23 14:24	7005-72-3	
Chrysene	ND	ug/kg	420	153	1	11/21/23 10:26	11/21/23 14:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	420	162	1	11/21/23 10:26	11/21/23 14:24	53-70-3	
Dibenzofuran	ND	ug/kg	420	151	1	11/21/23 10:26	11/21/23 14:24	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	420	151	1	11/21/23 10:26	11/21/23 14:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	420	149	1	11/21/23 10:26	11/21/23 14:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	420	160	1	11/21/23 10:26	11/21/23 14:24	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	839	284	1	11/21/23 10:26	11/21/23 14:24	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	420	164	1	11/21/23 10:26	11/21/23 14:24	120-83-2	
Diethylphthalate	ND	ug/kg	420	154	1	11/21/23 10:26	11/21/23 14:24	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	420	174	1	11/21/23 10:26	11/21/23 14:24	105-67-9	
Dimethylphthalate	ND	ug/kg	420	153	1	11/21/23 10:26	11/21/23 14:24	131-11-3	
Di-n-butylphthalate	ND	ug/kg	420	141	1	11/21/23 10:26	11/21/23 14:24	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	839	392	1	11/21/23 10:26	11/21/23 14:24	534-52-1	v1
2,4-Dinitrophenol	ND	ug/kg	2100	1300	1	11/21/23 10:26	11/21/23 14:24	51-28-5	v1
2,4-Dinitrotoluene	ND	ug/kg	420	162	1	11/21/23 10:26	11/21/23 14:24	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	420	154	1	11/21/23 10:26	11/21/23 14:24	606-20-2	
Di-n-octylphthalate	ND	ug/kg	420	165	1	11/21/23 10:26	11/21/23 14:24	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	420	163	1	11/21/23 10:26	11/21/23 14:24	117-81-7	
Fluoranthene	ND	ug/kg	420	144	1	11/21/23 10:26	11/21/23 14:24	206-44-0	
Fluorene	ND	ug/kg	420	148	1	11/21/23 10:26	11/21/23 14:24	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	420	182	1	11/21/23 10:26	11/21/23 14:24	87-68-3	
Hexachlorobenzene	ND	ug/kg	420	164	1	11/21/23 10:26	11/21/23 14:24	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	420	240	1	11/21/23 10:26	11/21/23 14:24	77-47-4	
Hexachloroethane	ND	ug/kg	420	160	1	11/21/23 10:26	11/21/23 14:24	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	420	165	1	11/21/23 10:26	11/21/23 14:24	193-39-5	
Isophorone	ND	ug/kg	420	187	1	11/21/23 10:26	11/21/23 14:24	78-59-1	
1-Methylnaphthalene	ND	ug/kg	420	148	1	11/21/23 10:26	11/21/23 14:24	90-12-0	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC1-111723-DUP Lab ID: 92699552003 Collected: 11/17/23 15:35 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
2-Methylnaphthalene	ND	ug/kg	420	168	1	11/21/23 10:26	11/21/23 14:24	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	420	172	1	11/21/23 10:26	11/21/23 14:24	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	420	169	1	11/21/23 10:26	11/21/23 14:24	15831-10-4	
Naphthalene	ND	ug/kg	420	142	1	11/21/23 10:26	11/21/23 14:24	91-20-3	
2-Nitroaniline	ND	ug/kg	2100	343	1	11/21/23 10:26	11/21/23 14:24	88-74-4	
3-Nitroaniline	ND	ug/kg	2100	329	1	11/21/23 10:26	11/21/23 14:24	99-09-2	
4-Nitroaniline	ND	ug/kg	839	319	1	11/21/23 10:26	11/21/23 14:24	100-01-6	
Nitrobenzene	ND	ug/kg	420	195	1	11/21/23 10:26	11/21/23 14:24	98-95-3	
2-Nitrophenol	ND	ug/kg	420	182	1	11/21/23 10:26	11/21/23 14:24	88-75-5	
4-Nitrophenol	ND	ug/kg	2100	811	1	11/21/23 10:26	11/21/23 14:24	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	420	141	1	11/21/23 10:26	11/21/23 14:24	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	420	158	1	11/21/23 10:26	11/21/23 14:24	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	420	149	1	11/21/23 10:26	11/21/23 14:24	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	420	200	1	11/21/23 10:26	11/21/23 14:24	108-60-1	
Pentachlorophenol	ND	ug/kg	839	411	1	11/21/23 10:26	11/21/23 14:24	87-86-5	
Phenanthrene	ND	ug/kg	420	137	1	11/21/23 10:26	11/21/23 14:24	85-01-8	
Phenol	ND	ug/kg	420	187	1	11/21/23 10:26	11/21/23 14:24	108-95-2	
Pyrene	ND	ug/kg	420	170	1	11/21/23 10:26	11/21/23 14:24	129-00-0	
Pyridine	ND	ug/kg	420	132	1	11/21/23 10:26	11/21/23 14:24	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/kg	420	165	1	11/21/23 10:26	11/21/23 14:24	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	420	192	1	11/21/23 10:26	11/21/23 14:24	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	420	173	1	11/21/23 10:26	11/21/23 14:24	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	25	%	10-130		1	11/21/23 10:26	11/21/23 14:24	4165-60-0	
2-Fluorobiphenyl (S)	11	%	10-130		1	11/21/23 10:26	11/21/23 14:24	321-60-8	
Terphenyl-d14 (S)	12	%	10-130		1	11/21/23 10:26	11/21/23 14:24	1718-51-0	
Phenol-d6 (S)	28	%	10-130		1	11/21/23 10:26	11/21/23 14:24	13127-88-3	
2-Fluorophenol (S)	27	%	10-130		1	11/21/23 10:26	11/21/23 14:24	367-12-4	
2,4,6-Tribromophenol (S)	24	%	10-130		1	11/21/23 10:26	11/21/23 14:24	118-79-6	
<b>8260D/5035A/5030B Volatiles</b>									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/kg	153	49.3	1	11/21/23 10:54	11/21/23 17:01	67-64-1	
Benzene	7.6J	ug/kg	7.7	3.1	1	11/21/23 10:54	11/21/23 17:01	71-43-2	
Bromobenzene	ND	ug/kg	7.7	2.5	1	11/21/23 10:54	11/21/23 17:01	108-86-1	
Bromochloromethane	ND	ug/kg	7.7	2.3	1	11/21/23 10:54	11/21/23 17:01	74-97-5	
Bromodichloromethane	ND	ug/kg	7.7	3.0	1	11/21/23 10:54	11/21/23 17:01	75-27-4	
Bromoform	ND	ug/kg	7.7	2.7	1	11/21/23 10:54	11/21/23 17:01	75-25-2	
Bromomethane	ND	ug/kg	30.7	23.8	1	11/21/23 10:54	11/21/23 17:01	74-83-9	
2-Butanone (MEK)	ND	ug/kg	153	36.8	1	11/21/23 10:54	11/21/23 17:01	78-93-3	
n-Butylbenzene	ND	ug/kg	7.7	4.8	1	11/21/23 10:54	11/21/23 17:01	104-51-8	
sec-Butylbenzene	ND	ug/kg	7.7	3.4	1	11/21/23 10:54	11/21/23 17:01	135-98-8	
tert-Butylbenzene	ND	ug/kg	7.7	2.7	1	11/21/23 10:54	11/21/23 17:01	98-06-6	v1
Carbon tetrachloride	ND	ug/kg	7.7	2.9	1	11/21/23 10:54	11/21/23 17:01	56-23-5	IK

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC1-111723-DUP Lab ID: 92699552003 Collected: 11/17/23 15:35 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B Volatiles									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
Chlorobenzene	ND	ug/kg	7.7	4.4	1	11/21/23 10:54	11/21/23 17:01	108-90-7	
Chloroethane	ND	ug/kg	15.3	5.9	1	11/21/23 10:54	11/21/23 17:01	75-00-3	
Chloroform	ND	ug/kg	7.7	6.4	1	11/21/23 10:54	11/21/23 17:01	67-66-3	
Chloromethane	ND	ug/kg	15.3	6.4	1	11/21/23 10:54	11/21/23 17:01	74-87-3	
2-Chlorotoluene	ND	ug/kg	7.7	2.7	1	11/21/23 10:54	11/21/23 17:01	95-49-8	
4-Chlorotoluene	ND	ug/kg	7.7	4.3	1	11/21/23 10:54	11/21/23 17:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.7	3.0	1	11/21/23 10:54	11/21/23 17:01	96-12-8	
Dibromochloromethane	ND	ug/kg	7.7	4.3	1	11/21/23 10:54	11/21/23 17:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	7.7	3.4	1	11/21/23 10:54	11/21/23 17:01	106-93-4	
Dibromomethane	ND	ug/kg	7.7	1.6	1	11/21/23 10:54	11/21/23 17:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	7.7	2.8	1	11/21/23 10:54	11/21/23 17:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.7	2.4	1	11/21/23 10:54	11/21/23 17:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.7	2.0	1	11/21/23 10:54	11/21/23 17:01	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	15.3	7.8	1	11/21/23 10:54	11/21/23 17:01	75-71-8	v1
1,1-Dichloroethane	ND	ug/kg	7.7	3.2	1	11/21/23 10:54	11/21/23 17:01	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.7	5.1	1	11/21/23 10:54	11/21/23 17:01	107-06-2	
1,1-Dichloroethene	ND	ug/kg	7.7	3.2	1	11/21/23 10:54	11/21/23 17:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.7	2.6	1	11/21/23 10:54	11/21/23 17:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.7	6.5	1	11/21/23 10:54	11/21/23 17:01	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.7	2.3	1	11/21/23 10:54	11/21/23 17:01	78-87-5	
1,3-Dichloropropane	ND	ug/kg	7.7	2.4	1	11/21/23 10:54	11/21/23 17:01	142-28-9	
2,2-Dichloropropane	ND	ug/kg	7.7	5.8	1	11/21/23 10:54	11/21/23 17:01	594-20-7	
1,1-Dichloropropene	ND	ug/kg	7.7	3.7	1	11/21/23 10:54	11/21/23 17:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	7.7	2.1	1	11/21/23 10:54	11/21/23 17:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.7	2.6	1	11/21/23 10:54	11/21/23 17:01	10061-02-6	
Diisopropyl ether	ND	ug/kg	7.7	2.1	1	11/21/23 10:54	11/21/23 17:01	108-20-3	
Ethylbenzene	10.4	ug/kg	7.7	3.6	1	11/21/23 10:54	11/21/23 17:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	15.3	12.6	1	11/21/23 10:54	11/21/23 17:01	87-68-3	
2-Hexanone	ND	ug/kg	76.7	7.4	1	11/21/23 10:54	11/21/23 17:01	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	7.7	2.6	1	11/21/23 10:54	11/21/23 17:01	98-82-8	
p-Isopropyltoluene	ND	ug/kg	7.7	3.8	1	11/21/23 10:54	11/21/23 17:01	99-87-6	
Methylene Chloride	ND	ug/kg	30.7	21.0	1	11/21/23 10:54	11/21/23 17:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	76.7	7.4	1	11/21/23 10:54	11/21/23 17:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	7.7	2.9	1	11/21/23 10:54	11/21/23 17:01	1634-04-4	
Naphthalene	9.7	ug/kg	7.7	4.0	1	11/21/23 10:54	11/21/23 17:01	91-20-3	
n-Propylbenzene	ND	ug/kg	7.7	2.7	1	11/21/23 10:54	11/21/23 17:01	103-65-1	
Styrene	ND	ug/kg	7.7	2.0	1	11/21/23 10:54	11/21/23 17:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.7	2.9	1	11/21/23 10:54	11/21/23 17:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.7	2.0	1	11/21/23 10:54	11/21/23 17:01	79-34-5	
Tetrachloroethene	ND	ug/kg	7.7	2.4	1	11/21/23 10:54	11/21/23 17:01	127-18-4	
Toluene	10.1	ug/kg	7.7	5.3	1	11/21/23 10:54	11/21/23 17:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	7.7	6.2	1	11/21/23 10:54	11/21/23 17:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	7.7	6.4	1	11/21/23 10:54	11/21/23 17:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.7	4.0	1	11/21/23 10:54	11/21/23 17:01	71-55-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC1-111723-DUP Lab ID: 92699552003 Collected: 11/17/23 15:35 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D/5035A/5030B Volatiles</b>									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/kg	7.7	2.5	1	11/21/23 10:54	11/21/23 17:01	79-00-5	
Trichloroethene	ND	ug/kg	7.7	6.2	1	11/21/23 10:54	11/21/23 17:01	79-01-6	
Trichlorofluoromethane	ND	ug/kg	7.7	4.2	1	11/21/23 10:54	11/21/23 17:01	75-69-4	v1
1,2,3-Trichloropropane	ND	ug/kg	7.7	3.9	1	11/21/23 10:54	11/21/23 17:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	7.7	4.6	1	11/21/23 10:54	11/21/23 17:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.7	2.6	1	11/21/23 10:54	11/21/23 17:01	108-67-8	
Vinyl acetate	ND	ug/kg	76.7	15.8	1	11/21/23 10:54	11/21/23 17:01	108-05-4	
Vinyl chloride	ND	ug/kg	15.3	3.9	1	11/21/23 10:54	11/21/23 17:01	75-01-4	
Xylene (Total)	8.2J	ug/kg	15.3	4.4	1	11/21/23 10:54	11/21/23 17:01	1330-20-7	
m&p-Xylene	8.2J	ug/kg	15.3	5.2	1	11/21/23 10:54	11/21/23 17:01	179601-23-1	
o-Xylene	ND	ug/kg	7.7	3.4	1	11/21/23 10:54	11/21/23 17:01	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	100	%	70-130		1	11/21/23 10:54	11/21/23 17:01	2037-26-5	u8
4-Bromofluorobenzene (S)	101	%	70-130		1	11/21/23 10:54	11/21/23 17:01	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1	11/21/23 10:54	11/21/23 17:01	17060-07-0	
<b>Percent Moisture</b>									
Analytical Method: SW-846									
Pace Analytical Services - Charlotte									
Percent Moisture	21.1	%	0.10	0.10	1		11/21/23 13:50		N2

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC3-111723 Lab ID: 92699552004 Collected: 11/17/23 17:00 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.6	15.7	1	11/21/23 10:41	11/21/23 14:40	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.6	26.6	1	11/21/23 10:41	11/21/23 14:40	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.6	17.6	1	11/21/23 10:41	11/21/23 14:40	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.6	9.6	1	11/21/23 10:41	11/21/23 14:40	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.6	10.7	1	11/21/23 10:41	11/21/23 14:40	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	39.6	17.4	1	11/21/23 10:41	11/21/23 14:40	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.6	17.5	1	11/21/23 10:41	11/21/23 14:40	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	87	%	10-174		1	11/21/23 10:41	11/21/23 14:40	2051-24-3	
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Asheville									
Aluminum	5400	mg/kg	93.1	20.2	10	11/21/23 10:50	11/22/23 12:10	7429-90-5	M1
Antimony	ND	mg/kg	2.3	1.3	1	11/21/23 10:50	11/22/23 12:07	7440-36-0	M1
Arsenic	2.8	mg/kg	2.3	0.38	1	11/21/23 10:50	11/22/23 12:07	7440-38-2	
Barium	31.1	mg/kg	0.93	0.11	1	11/21/23 10:50	11/22/23 12:07	7440-39-3	
Beryllium	0.11	mg/kg	0.093	0.012	1	11/21/23 10:50	11/22/23 12:07	7440-41-7	
Cadmium	0.029J	mg/kg	0.093	0.024	1	11/21/23 10:50	11/22/23 12:07	7440-43-9	
Calcium	1720	mg/kg	23.3	5.2	1	11/21/23 10:50	11/22/23 12:07	7440-70-2	M1,R1
Chromium	67.9	mg/kg	0.47	0.070	1	11/21/23 10:50	11/22/23 12:07	7440-47-3	
Cobalt	5.4	mg/kg	0.47	0.30	1	11/21/23 10:50	11/22/23 12:07	7440-48-4	M1,R1
Copper	18.1	mg/kg	4.7	0.088	1	11/21/23 10:50	11/22/23 12:07	7440-50-8	M1
Iron	30600	mg/kg	466	42.0	10	11/21/23 10:50	11/22/23 12:10	7439-89-6	M1
Lead	28.0	mg/kg	0.93	0.24	1	11/21/23 10:50	11/22/23 12:07	7439-92-1	M1
Magnesium	1530	mg/kg	9.3	0.64	1	11/21/23 10:50	11/22/23 12:07	7439-95-4	M1,R1
Manganese	249	mg/kg	0.47	0.093	1	11/21/23 10:50	11/22/23 12:07	7439-96-5	M1,R1
Nickel	6.8	mg/kg	0.47	0.079	1	11/21/23 10:50	11/22/23 12:07	7440-02-0	
Potassium	230J	mg/kg	466	11.3	1	11/21/23 10:50	11/22/23 12:07	7440-09-7	M1
Selenium	ND	mg/kg	0.93	0.72	1	11/21/23 10:50	11/22/23 12:07	7782-49-2	
Silver	ND	mg/kg	0.47	0.044	1	11/21/23 10:50	11/22/23 12:07	7440-22-4	
Sodium	45.1J	mg/kg	466	17.1	1	11/21/23 10:50	11/22/23 12:07	7440-23-5	
Thallium	ND	mg/kg	0.93	0.36	1	11/21/23 10:50	11/22/23 12:07	7440-28-0	
Vanadium	103	mg/kg	0.47	0.13	1	11/21/23 10:50	11/22/23 12:07	7440-62-2	
Zinc	53.0	mg/kg	0.93	0.56	1	11/21/23 10:50	11/22/23 12:07	7440-66-6	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Pace Analytical Services - Asheville									
Mercury	ND	mg/kg	0.0061	0.0038	1	11/21/23 11:38	11/21/23 12:39	7439-97-6	
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/kg	386	136	1	11/21/23 10:26	11/21/23 14:51	83-32-9	
Acenaphthylene	ND	ug/kg	386	136	1	11/21/23 10:26	11/21/23 14:51	208-96-8	
Aniline	ND	ug/kg	386	151	1	11/21/23 10:26	11/21/23 14:51	62-53-3	

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC3-111723 Lab ID: 92699552004 Collected: 11/17/23 17:00 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
Anthracene	ND	ug/kg	386	126	1	11/21/23 10:26	11/21/23 14:51	120-12-7	
Benzo(a)anthracene	ND	ug/kg	386	129	1	11/21/23 10:26	11/21/23 14:51	56-55-3	
Benzo(a)pyrene	ND	ug/kg	386	134	1	11/21/23 10:26	11/21/23 14:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	386	129	1	11/21/23 10:26	11/21/23 14:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	386	150	1	11/21/23 10:26	11/21/23 14:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	386	136	1	11/21/23 10:26	11/21/23 14:51	207-08-9	
Benzoic Acid	ND	ug/kg	1930	830	1	11/21/23 10:26	11/21/23 14:51	65-85-0	M1,v1
Benzyl alcohol	ND	ug/kg	773	293	1	11/21/23 10:26	11/21/23 14:51	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	386	149	1	11/21/23 10:26	11/21/23 14:51	101-55-3	
Butylbenzylphthalate	ND	ug/kg	386	163	1	11/21/23 10:26	11/21/23 14:51	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	773	272	1	11/21/23 10:26	11/21/23 14:51	59-50-7	
4-Chloroaniline	ND	ug/kg	773	303	1	11/21/23 10:26	11/21/23 14:51	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	386	160	1	11/21/23 10:26	11/21/23 14:51	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	386	145	1	11/21/23 10:26	11/21/23 14:51	111-44-4	
2-Chloronaphthalene	ND	ug/kg	386	153	1	11/21/23 10:26	11/21/23 14:51	91-58-7	
2-Chlorophenol	ND	ug/kg	386	145	1	11/21/23 10:26	11/21/23 14:51	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	386	144	1	11/21/23 10:26	11/21/23 14:51	7005-72-3	
Chrysene	ND	ug/kg	386	141	1	11/21/23 10:26	11/21/23 14:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	386	149	1	11/21/23 10:26	11/21/23 14:51	53-70-3	
Dibenzofuran	ND	ug/kg	386	139	1	11/21/23 10:26	11/21/23 14:51	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	386	139	1	11/21/23 10:26	11/21/23 14:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	386	137	1	11/21/23 10:26	11/21/23 14:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	386	148	1	11/21/23 10:26	11/21/23 14:51	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	773	261	1	11/21/23 10:26	11/21/23 14:51	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	386	151	1	11/21/23 10:26	11/21/23 14:51	120-83-2	
Diethylphthalate	ND	ug/kg	386	142	1	11/21/23 10:26	11/21/23 14:51	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	386	160	1	11/21/23 10:26	11/21/23 14:51	105-67-9	
Dimethylphthalate	ND	ug/kg	386	141	1	11/21/23 10:26	11/21/23 14:51	131-11-3	
Di-n-butylphthalate	ND	ug/kg	386	130	1	11/21/23 10:26	11/21/23 14:51	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	773	361	1	11/21/23 10:26	11/21/23 14:51	534-52-1	v1
2,4-Dinitrophenol	ND	ug/kg	1930	1190	1	11/21/23 10:26	11/21/23 14:51	51-28-5	v1
2,4-Dinitrotoluene	ND	ug/kg	386	149	1	11/21/23 10:26	11/21/23 14:51	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	386	142	1	11/21/23 10:26	11/21/23 14:51	606-20-2	
Di-n-octylphthalate	ND	ug/kg	386	152	1	11/21/23 10:26	11/21/23 14:51	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	386	150	1	11/21/23 10:26	11/21/23 14:51	117-81-7	
Fluoranthene	ND	ug/kg	386	132	1	11/21/23 10:26	11/21/23 14:51	206-44-0	
Fluorene	ND	ug/kg	386	136	1	11/21/23 10:26	11/21/23 14:51	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	386	167	1	11/21/23 10:26	11/21/23 14:51	87-68-3	
Hexachlorobenzene	ND	ug/kg	386	151	1	11/21/23 10:26	11/21/23 14:51	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	386	221	1	11/21/23 10:26	11/21/23 14:51	77-47-4	R1
Hexachloroethane	ND	ug/kg	386	148	1	11/21/23 10:26	11/21/23 14:51	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	386	152	1	11/21/23 10:26	11/21/23 14:51	193-39-5	
Isophorone	ND	ug/kg	386	172	1	11/21/23 10:26	11/21/23 14:51	78-59-1	
1-Methylnaphthalene	ND	ug/kg	386	136	1	11/21/23 10:26	11/21/23 14:51	90-12-0	

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC3-111723 Lab ID: 92699552004 Collected: 11/17/23 17:00 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
2-Methylnaphthalene	ND	ug/kg	386	155	1	11/21/23 10:26	11/21/23 14:51	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	386	158	1	11/21/23 10:26	11/21/23 14:51	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	386	156	1	11/21/23 10:26	11/21/23 14:51	15831-10-4	
Naphthalene	ND	ug/kg	386	131	1	11/21/23 10:26	11/21/23 14:51	91-20-3	
2-Nitroaniline	ND	ug/kg	1930	316	1	11/21/23 10:26	11/21/23 14:51	88-74-4	
3-Nitroaniline	ND	ug/kg	1930	303	1	11/21/23 10:26	11/21/23 14:51	99-09-2	
4-Nitroaniline	ND	ug/kg	773	294	1	11/21/23 10:26	11/21/23 14:51	100-01-6	
Nitrobenzene	ND	ug/kg	386	179	1	11/21/23 10:26	11/21/23 14:51	98-95-3	
2-Nitrophenol	ND	ug/kg	386	167	1	11/21/23 10:26	11/21/23 14:51	88-75-5	
4-Nitrophenol	ND	ug/kg	1930	747	1	11/21/23 10:26	11/21/23 14:51	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	386	130	1	11/21/23 10:26	11/21/23 14:51	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	386	145	1	11/21/23 10:26	11/21/23 14:51	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	386	137	1	11/21/23 10:26	11/21/23 14:51	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	386	184	1	11/21/23 10:26	11/21/23 14:51	108-60-1	
Pentachlorophenol	ND	ug/kg	773	378	1	11/21/23 10:26	11/21/23 14:51	87-86-5	
Phenanthrene	ND	ug/kg	386	126	1	11/21/23 10:26	11/21/23 14:51	85-01-8	
Phenol	ND	ug/kg	386	172	1	11/21/23 10:26	11/21/23 14:51	108-95-2	
Pyrene	ND	ug/kg	386	157	1	11/21/23 10:26	11/21/23 14:51	129-00-0	
Pyridine	ND	ug/kg	386	122	1	11/21/23 10:26	11/21/23 14:51	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/kg	386	152	1	11/21/23 10:26	11/21/23 14:51	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	386	177	1	11/21/23 10:26	11/21/23 14:51	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	386	159	1	11/21/23 10:26	11/21/23 14:51	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	46	%	10-130		1	11/21/23 10:26	11/21/23 14:51	4165-60-0	
2-Fluorobiphenyl (S)	22	%	10-130		1	11/21/23 10:26	11/21/23 14:51	321-60-8	
Terphenyl-d14 (S)	20	%	10-130		1	11/21/23 10:26	11/21/23 14:51	1718-51-0	
Phenol-d6 (S)	44	%	10-130		1	11/21/23 10:26	11/21/23 14:51	13127-88-3	
2-Fluorophenol (S)	43	%	10-130		1	11/21/23 10:26	11/21/23 14:51	367-12-4	
2,4,6-Tribromophenol (S)	43	%	10-130		1	11/21/23 10:26	11/21/23 14:51	118-79-6	
<b>8260D/5035A/5030B Volatiles</b>									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/kg	71.0	22.8	1	11/21/23 10:54	11/21/23 15:47	67-64-1	
Benzene	3.9	ug/kg	3.6	1.4	1	11/21/23 10:54	11/21/23 15:47	71-43-2	
Bromobenzene	ND	ug/kg	3.6	1.2	1	11/21/23 10:54	11/21/23 15:47	108-86-1	
Bromochloromethane	ND	ug/kg	3.6	1.1	1	11/21/23 10:54	11/21/23 15:47	74-97-5	
Bromodichloromethane	ND	ug/kg	3.6	1.4	1	11/21/23 10:54	11/21/23 15:47	75-27-4	
Bromoform	ND	ug/kg	3.6	1.2	1	11/21/23 10:54	11/21/23 15:47	75-25-2	
Bromomethane	ND	ug/kg	14.2	11.0	1	11/21/23 10:54	11/21/23 15:47	74-83-9	
2-Butanone (MEK)	ND	ug/kg	71.0	17.0	1	11/21/23 10:54	11/21/23 15:47	78-93-3	R1
n-Butylbenzene	ND	ug/kg	3.6	2.2	1	11/21/23 10:54	11/21/23 15:47	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.6	1.6	1	11/21/23 10:54	11/21/23 15:47	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.6	1.3	1	11/21/23 10:54	11/21/23 15:47	98-06-6	v1
Carbon tetrachloride	ND	ug/kg	3.6	1.3	1	11/21/23 10:54	11/21/23 15:47	56-23-5	IK

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC3-111723 Lab ID: 92699552004 Collected: 11/17/23 17:00 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B Volatiles									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
Chlorobenzene	ND	ug/kg	3.6	2.0	1	11/21/23 10:54	11/21/23 15:47	108-90-7	
Chloroethane	ND	ug/kg	7.1	2.7	1	11/21/23 10:54	11/21/23 15:47	75-00-3	
Chloroform	ND	ug/kg	3.6	3.0	1	11/21/23 10:54	11/21/23 15:47	67-66-3	
Chloromethane	ND	ug/kg	7.1	3.0	1	11/21/23 10:54	11/21/23 15:47	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.6	1.3	1	11/21/23 10:54	11/21/23 15:47	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.6	2.0	1	11/21/23 10:54	11/21/23 15:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.6	1.4	1	11/21/23 10:54	11/21/23 15:47	96-12-8	
Dibromochloromethane	ND	ug/kg	3.6	2.0	1	11/21/23 10:54	11/21/23 15:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.6	1.6	1	11/21/23 10:54	11/21/23 15:47	106-93-4	
Dibromomethane	ND	ug/kg	3.6	0.76	1	11/21/23 10:54	11/21/23 15:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.6	1.3	1	11/21/23 10:54	11/21/23 15:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.6	1.1	1	11/21/23 10:54	11/21/23 15:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.6	0.92	1	11/21/23 10:54	11/21/23 15:47	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	7.1	3.6	1	11/21/23 10:54	11/21/23 15:47	75-71-8	v1
1,1-Dichloroethane	ND	ug/kg	3.6	1.5	1	11/21/23 10:54	11/21/23 15:47	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.6	2.4	1	11/21/23 10:54	11/21/23 15:47	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.6	1.5	1	11/21/23 10:54	11/21/23 15:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.6	1.2	1	11/21/23 10:54	11/21/23 15:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.6	3.0	1	11/21/23 10:54	11/21/23 15:47	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.6	1.1	1	11/21/23 10:54	11/21/23 15:47	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.6	1.1	1	11/21/23 10:54	11/21/23 15:47	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.6	2.7	1	11/21/23 10:54	11/21/23 15:47	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.6	1.7	1	11/21/23 10:54	11/21/23 15:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.6	0.97	1	11/21/23 10:54	11/21/23 15:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.6	1.2	1	11/21/23 10:54	11/21/23 15:47	10061-02-6	
Diisopropyl ether	ND	ug/kg	3.6	0.96	1	11/21/23 10:54	11/21/23 15:47	108-20-3	
Ethylbenzene	3.3J	ug/kg	3.6	1.7	1	11/21/23 10:54	11/21/23 15:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	7.1	5.8	1	11/21/23 10:54	11/21/23 15:47	87-68-3	
2-Hexanone	ND	ug/kg	35.5	3.4	1	11/21/23 10:54	11/21/23 15:47	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.6	1.2	1	11/21/23 10:54	11/21/23 15:47	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.6	1.7	1	11/21/23 10:54	11/21/23 15:47	99-87-6	
Methylene Chloride	ND	ug/kg	14.2	9.7	1	11/21/23 10:54	11/21/23 15:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	35.5	3.4	1	11/21/23 10:54	11/21/23 15:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.6	1.3	1	11/21/23 10:54	11/21/23 15:47	1634-04-4	
Naphthalene	3.1J	ug/kg	3.6	1.9	1	11/21/23 10:54	11/21/23 15:47	91-20-3	R1
n-Propylbenzene	ND	ug/kg	3.6	1.3	1	11/21/23 10:54	11/21/23 15:47	103-65-1	
Styrene	ND	ug/kg	3.6	0.94	1	11/21/23 10:54	11/21/23 15:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.6	1.4	1	11/21/23 10:54	11/21/23 15:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.6	0.94	1	11/21/23 10:54	11/21/23 15:47	79-34-5	
Tetrachloroethene	1.8J	ug/kg	3.6	1.1	1	11/21/23 10:54	11/21/23 15:47	127-18-4	
Toluene	5.2	ug/kg	3.6	2.4	1	11/21/23 10:54	11/21/23 15:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.6	2.9	1	11/21/23 10:54	11/21/23 15:47	87-61-6	R1
1,2,4-Trichlorobenzene	ND	ug/kg	3.6	3.0	1	11/21/23 10:54	11/21/23 15:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.6	1.8	1	11/21/23 10:54	11/21/23 15:47	71-55-6	

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-LOC3-111723 Lab ID: 92699552004 Collected: 11/17/23 17:00 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D/5035A/5030B Volatiles</b>									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/kg	3.6	1.2	1	11/21/23 10:54	11/21/23 15:47	79-00-5	
Trichloroethene	ND	ug/kg	3.6	2.9	1	11/21/23 10:54	11/21/23 15:47	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.6	2.0	1	11/21/23 10:54	11/21/23 15:47	75-69-4	v1
1,2,3-Trichloropropane	ND	ug/kg	3.6	1.8	1	11/21/23 10:54	11/21/23 15:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.6	2.1	1	11/21/23 10:54	11/21/23 15:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.6	1.2	1	11/21/23 10:54	11/21/23 15:47	108-67-8	
Vinyl acetate	ND	ug/kg	35.5	7.3	1	11/21/23 10:54	11/21/23 15:47	108-05-4	
Vinyl chloride	ND	ug/kg	7.1	1.8	1	11/21/23 10:54	11/21/23 15:47	75-01-4	
Xylene (Total)	3.5J	ug/kg	7.1	2.0	1	11/21/23 10:54	11/21/23 15:47	1330-20-7	
m&p-Xylene	3.5J	ug/kg	7.1	2.4	1	11/21/23 10:54	11/21/23 15:47	179601-23-1	
o-Xylene	ND	ug/kg	3.6	1.6	1	11/21/23 10:54	11/21/23 15:47	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	101	%	70-130		1	11/21/23 10:54	11/21/23 15:47	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		1	11/21/23 10:54	11/21/23 15:47	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1	11/21/23 10:54	11/21/23 15:47	17060-07-0	
<b>Percent Moisture</b>									
Analytical Method: SW-846									
Pace Analytical Services - Charlotte									
Percent Moisture	15.7	%	0.10	0.10	1		11/21/23 13:50		N2

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-BACK-111723 Lab ID: 92699552005 Collected: 11/17/23 17:25 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
PCB-1016 (Aroclor 1016)	ND	ug/kg	49.0	19.5	1	11/21/23 10:41	11/21/23 15:17	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	49.0	33.0	1	11/21/23 10:41	11/21/23 15:17	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	49.0	21.8	1	11/21/23 10:41	11/21/23 15:17	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	49.0	11.9	1	11/21/23 10:41	11/21/23 15:17	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	49.0	13.2	1	11/21/23 10:41	11/21/23 15:17	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	49.0	21.5	1	11/21/23 10:41	11/21/23 15:17	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	49.0	21.7	1	11/21/23 10:41	11/21/23 15:17	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	99	%	10-174		1	11/21/23 10:41	11/21/23 15:17	2051-24-3	
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Asheville									
Aluminum	<b>1830</b>	mg/kg	8.3	1.8	1	11/21/23 10:50	11/22/23 12:30	7429-90-5	
Antimony	ND	mg/kg	2.1	1.2	1	11/21/23 10:50	11/22/23 12:30	7440-36-0	
Arsenic	<b>0.67J</b>	mg/kg	2.1	0.34	1	11/21/23 10:50	11/22/23 12:30	7440-38-2	
Barium	<b>14.3</b>	mg/kg	0.83	0.094	1	11/21/23 10:50	11/22/23 12:30	7440-39-3	
Beryllium	<b>0.045J</b>	mg/kg	0.083	0.011	1	11/21/23 10:50	11/22/23 12:30	7440-41-7	
Cadmium	ND	mg/kg	0.083	0.022	1	11/21/23 10:50	11/22/23 12:30	7440-43-9	
Calcium	<b>397</b>	mg/kg	20.8	4.7	1	11/21/23 10:50	11/22/23 12:30	7440-70-2	
Chromium	<b>12.4</b>	mg/kg	0.42	0.062	1	11/21/23 10:50	11/22/23 12:30	7440-47-3	
Cobalt	<b>1.2</b>	mg/kg	0.42	0.27	1	11/21/23 10:50	11/22/23 12:30	7440-48-4	
Copper	<b>4.2</b>	mg/kg	4.2	0.079	1	11/21/23 10:50	11/22/23 12:30	7440-50-8	
Iron	<b>7170</b>	mg/kg	41.6	3.7	1	11/21/23 10:50	11/22/23 12:30	7439-89-6	
Lead	<b>3.6</b>	mg/kg	0.83	0.22	1	11/21/23 10:50	11/22/23 12:30	7439-92-1	
Magnesium	<b>341</b>	mg/kg	8.3	0.57	1	11/21/23 10:50	11/22/23 12:30	7439-95-4	
Manganese	<b>36.4</b>	mg/kg	0.42	0.084	1	11/21/23 10:50	11/22/23 12:30	7439-96-5	
Nickel	<b>2.1</b>	mg/kg	0.42	0.071	1	11/21/23 10:50	11/22/23 12:30	7440-02-0	
Potassium	<b>115J</b>	mg/kg	416	10.1	1	11/21/23 10:50	11/22/23 12:30	7440-09-7	
Selenium	ND	mg/kg	0.83	0.64	1	11/21/23 10:50	11/22/23 12:30	7782-49-2	
Silver	ND	mg/kg	0.42	0.039	1	11/21/23 10:50	11/22/23 12:30	7440-22-4	
Sodium	<b>20.5J</b>	mg/kg	416	15.3	1	11/21/23 10:50	11/22/23 12:30	7440-23-5	
Thallium	ND	mg/kg	0.83	0.33	1	11/21/23 10:50	11/22/23 12:30	7440-28-0	
Vanadium	<b>29.9</b>	mg/kg	0.42	0.11	1	11/21/23 10:50	11/22/23 12:30	7440-62-2	
Zinc	<b>11.7</b>	mg/kg	0.83	0.50	1	11/21/23 10:50	11/22/23 12:30	7440-66-6	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Pace Analytical Services - Asheville									
Mercury	ND	mg/kg	0.0086	0.0053	1	11/21/23 11:38	11/21/23 12:45	7439-97-6	
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/kg	484	170	1	11/21/23 10:26	11/21/23 15:19	83-32-9	
Acenaphthylene	ND	ug/kg	484	170	1	11/21/23 10:26	11/21/23 15:19	208-96-8	
Aniline	ND	ug/kg	484	189	1	11/21/23 10:26	11/21/23 15:19	62-53-3	

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-BACK-111723 Lab ID: 92699552005 Collected: 11/17/23 17:25 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
Anthracene	ND	ug/kg	484	158	1	11/21/23 10:26	11/21/23 15:19	120-12-7	
Benzo(a)anthracene	ND	ug/kg	484	161	1	11/21/23 10:26	11/21/23 15:19	56-55-3	
Benzo(a)pyrene	ND	ug/kg	484	167	1	11/21/23 10:26	11/21/23 15:19	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	484	161	1	11/21/23 10:26	11/21/23 15:19	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	484	188	1	11/21/23 10:26	11/21/23 15:19	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	484	170	1	11/21/23 10:26	11/21/23 15:19	207-08-9	
Benzoic Acid	ND	ug/kg	2420	1040	1	11/21/23 10:26	11/21/23 15:19	65-85-0	v1
Benzyl alcohol	ND	ug/kg	967	366	1	11/21/23 10:26	11/21/23 15:19	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	484	186	1	11/21/23 10:26	11/21/23 15:19	101-55-3	
Butylbenzylphthalate	ND	ug/kg	484	204	1	11/21/23 10:26	11/21/23 15:19	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	967	340	1	11/21/23 10:26	11/21/23 15:19	59-50-7	
4-Chloroaniline	ND	ug/kg	967	380	1	11/21/23 10:26	11/21/23 15:19	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	484	201	1	11/21/23 10:26	11/21/23 15:19	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	484	182	1	11/21/23 10:26	11/21/23 15:19	111-44-4	
2-Chloronaphthalene	ND	ug/kg	484	192	1	11/21/23 10:26	11/21/23 15:19	91-58-7	
2-Chlorophenol	ND	ug/kg	484	182	1	11/21/23 10:26	11/21/23 15:19	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	484	180	1	11/21/23 10:26	11/21/23 15:19	7005-72-3	
Chrysene	ND	ug/kg	484	176	1	11/21/23 10:26	11/21/23 15:19	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	484	186	1	11/21/23 10:26	11/21/23 15:19	53-70-3	
Dibenzofuran	ND	ug/kg	484	174	1	11/21/23 10:26	11/21/23 15:19	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	484	174	1	11/21/23 10:26	11/21/23 15:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	484	171	1	11/21/23 10:26	11/21/23 15:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	484	185	1	11/21/23 10:26	11/21/23 15:19	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	967	327	1	11/21/23 10:26	11/21/23 15:19	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	484	189	1	11/21/23 10:26	11/21/23 15:19	120-83-2	
Diethylphthalate	ND	ug/kg	484	177	1	11/21/23 10:26	11/21/23 15:19	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	484	201	1	11/21/23 10:26	11/21/23 15:19	105-67-9	
Dimethylphthalate	ND	ug/kg	484	176	1	11/21/23 10:26	11/21/23 15:19	131-11-3	
Di-n-butylphthalate	ND	ug/kg	484	163	1	11/21/23 10:26	11/21/23 15:19	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	967	451	1	11/21/23 10:26	11/21/23 15:19	534-52-1	v1
2,4-Dinitrophenol	ND	ug/kg	2420	1490	1	11/21/23 10:26	11/21/23 15:19	51-28-5	v1
2,4-Dinitrotoluene	ND	ug/kg	484	186	1	11/21/23 10:26	11/21/23 15:19	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	484	177	1	11/21/23 10:26	11/21/23 15:19	606-20-2	
Di-n-octylphthalate	ND	ug/kg	484	191	1	11/21/23 10:26	11/21/23 15:19	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	484	188	1	11/21/23 10:26	11/21/23 15:19	117-81-7	
Fluoranthene	ND	ug/kg	484	166	1	11/21/23 10:26	11/21/23 15:19	206-44-0	
Fluorene	ND	ug/kg	484	170	1	11/21/23 10:26	11/21/23 15:19	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	484	210	1	11/21/23 10:26	11/21/23 15:19	87-68-3	
Hexachlorobenzene	ND	ug/kg	484	189	1	11/21/23 10:26	11/21/23 15:19	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	484	277	1	11/21/23 10:26	11/21/23 15:19	77-47-4	
Hexachloroethane	ND	ug/kg	484	185	1	11/21/23 10:26	11/21/23 15:19	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	484	191	1	11/21/23 10:26	11/21/23 15:19	193-39-5	
Isophorone	ND	ug/kg	484	215	1	11/21/23 10:26	11/21/23 15:19	78-59-1	
1-Methylnaphthalene	ND	ug/kg	484	170	1	11/21/23 10:26	11/21/23 15:19	90-12-0	

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-BACK-111723 Lab ID: 92699552005 Collected: 11/17/23 17:25 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
2-Methylnaphthalene	ND	ug/kg	484	193	1	11/21/23 10:26	11/21/23 15:19	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	484	198	1	11/21/23 10:26	11/21/23 15:19	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	484	195	1	11/21/23 10:26	11/21/23 15:19	15831-10-4	
Naphthalene	ND	ug/kg	484	164	1	11/21/23 10:26	11/21/23 15:19	91-20-3	
2-Nitroaniline	ND	ug/kg	2420	396	1	11/21/23 10:26	11/21/23 15:19	88-74-4	
3-Nitroaniline	ND	ug/kg	2420	380	1	11/21/23 10:26	11/21/23 15:19	99-09-2	
4-Nitroaniline	ND	ug/kg	967	368	1	11/21/23 10:26	11/21/23 15:19	100-01-6	
Nitrobenzene	ND	ug/kg	484	224	1	11/21/23 10:26	11/21/23 15:19	98-95-3	
2-Nitrophenol	ND	ug/kg	484	210	1	11/21/23 10:26	11/21/23 15:19	88-75-5	
4-Nitrophenol	ND	ug/kg	2420	935	1	11/21/23 10:26	11/21/23 15:19	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	484	163	1	11/21/23 10:26	11/21/23 15:19	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	484	182	1	11/21/23 10:26	11/21/23 15:19	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	484	171	1	11/21/23 10:26	11/21/23 15:19	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	484	230	1	11/21/23 10:26	11/21/23 15:19	108-60-1	
Pentachlorophenol	ND	ug/kg	967	473	1	11/21/23 10:26	11/21/23 15:19	87-86-5	
Phenanthrene	ND	ug/kg	484	158	1	11/21/23 10:26	11/21/23 15:19	85-01-8	
Phenol	ND	ug/kg	484	215	1	11/21/23 10:26	11/21/23 15:19	108-95-2	
Pyrene	ND	ug/kg	484	196	1	11/21/23 10:26	11/21/23 15:19	129-00-0	
Pyridine	ND	ug/kg	484	152	1	11/21/23 10:26	11/21/23 15:19	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/kg	484	191	1	11/21/23 10:26	11/21/23 15:19	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	484	221	1	11/21/23 10:26	11/21/23 15:19	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	484	199	1	11/21/23 10:26	11/21/23 15:19	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	55	%	10-130		1	11/21/23 10:26	11/21/23 15:19	4165-60-0	
2-Fluorobiphenyl (S)	32	%	10-130		1	11/21/23 10:26	11/21/23 15:19	321-60-8	
Terphenyl-d14 (S)	26	%	10-130		1	11/21/23 10:26	11/21/23 15:19	1718-51-0	
Phenol-d6 (S)	59	%	10-130		1	11/21/23 10:26	11/21/23 15:19	13127-88-3	
2-Fluorophenol (S)	56	%	10-130		1	11/21/23 10:26	11/21/23 15:19	367-12-4	
2,4,6-Tribromophenol (S)	51	%	10-130		1	11/21/23 10:26	11/21/23 15:19	118-79-6	
<b>8260D/5035A/5030B Volatiles</b>									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/kg	229	73.6	1	11/21/23 10:54	11/21/23 16:06	67-64-1	
Benzene	10.0J	ug/kg	11.5	4.6	1	11/21/23 10:54	11/21/23 16:06	71-43-2	
Bromobenzene	ND	ug/kg	11.5	3.7	1	11/21/23 10:54	11/21/23 16:06	108-86-1	
Bromochloromethane	ND	ug/kg	11.5	3.4	1	11/21/23 10:54	11/21/23 16:06	74-97-5	
Bromodichloromethane	ND	ug/kg	11.5	4.4	1	11/21/23 10:54	11/21/23 16:06	75-27-4	
Bromoform	ND	ug/kg	11.5	4.0	1	11/21/23 10:54	11/21/23 16:06	75-25-2	
Bromomethane	ND	ug/kg	45.8	35.5	1	11/21/23 10:54	11/21/23 16:06	74-83-9	
2-Butanone (MEK)	ND	ug/kg	229	55.0	1	11/21/23 10:54	11/21/23 16:06	78-93-3	
n-Butylbenzene	ND	ug/kg	11.5	7.2	1	11/21/23 10:54	11/21/23 16:06	104-51-8	
sec-Butylbenzene	ND	ug/kg	11.5	5.0	1	11/21/23 10:54	11/21/23 16:06	135-98-8	
tert-Butylbenzene	ND	ug/kg	11.5	4.1	1	11/21/23 10:54	11/21/23 16:06	98-06-6	v1
Carbon tetrachloride	ND	ug/kg	11.5	4.3	1	11/21/23 10:54	11/21/23 16:06	56-23-5	IK

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-BACK-111723 Lab ID: 92699552005 Collected: 11/17/23 17:25 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B Volatiles									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
Chlorobenzene	ND	ug/kg	11.5	6.6	1	11/21/23 10:54	11/21/23 16:06	108-90-7	
Chloroethane	ND	ug/kg	22.9	8.8	1	11/21/23 10:54	11/21/23 16:06	75-00-3	
Chloroform	ND	ug/kg	11.5	9.6	1	11/21/23 10:54	11/21/23 16:06	67-66-3	
Chloromethane	ND	ug/kg	22.9	9.6	1	11/21/23 10:54	11/21/23 16:06	74-87-3	
2-Chlorotoluene	ND	ug/kg	11.5	4.1	1	11/21/23 10:54	11/21/23 16:06	95-49-8	
4-Chlorotoluene	ND	ug/kg	11.5	6.4	1	11/21/23 10:54	11/21/23 16:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	11.5	4.4	1	11/21/23 10:54	11/21/23 16:06	96-12-8	
Dibromochloromethane	ND	ug/kg	11.5	6.4	1	11/21/23 10:54	11/21/23 16:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	11.5	5.0	1	11/21/23 10:54	11/21/23 16:06	106-93-4	
Dibromomethane	ND	ug/kg	11.5	2.5	1	11/21/23 10:54	11/21/23 16:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	11.5	4.1	1	11/21/23 10:54	11/21/23 16:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	11.5	3.6	1	11/21/23 10:54	11/21/23 16:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	11.5	3.0	1	11/21/23 10:54	11/21/23 16:06	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	22.9	11.7	1	11/21/23 10:54	11/21/23 16:06	75-71-8	v1
1,1-Dichloroethane	ND	ug/kg	11.5	4.7	1	11/21/23 10:54	11/21/23 16:06	75-34-3	
1,2-Dichloroethane	ND	ug/kg	11.5	7.6	1	11/21/23 10:54	11/21/23 16:06	107-06-2	
1,1-Dichloroethene	ND	ug/kg	11.5	4.7	1	11/21/23 10:54	11/21/23 16:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	11.5	3.9	1	11/21/23 10:54	11/21/23 16:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	11.5	9.7	1	11/21/23 10:54	11/21/23 16:06	156-60-5	
1,2-Dichloropropane	ND	ug/kg	11.5	3.4	1	11/21/23 10:54	11/21/23 16:06	78-87-5	
1,3-Dichloropropane	ND	ug/kg	11.5	3.6	1	11/21/23 10:54	11/21/23 16:06	142-28-9	
2,2-Dichloropropane	ND	ug/kg	11.5	8.7	1	11/21/23 10:54	11/21/23 16:06	594-20-7	
1,1-Dichloropropene	ND	ug/kg	11.5	5.5	1	11/21/23 10:54	11/21/23 16:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	11.5	3.1	1	11/21/23 10:54	11/21/23 16:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	11.5	3.9	1	11/21/23 10:54	11/21/23 16:06	10061-02-6	
Diisopropyl ether	ND	ug/kg	11.5	3.1	1	11/21/23 10:54	11/21/23 16:06	108-20-3	
Ethylbenzene	11.1J	ug/kg	11.5	5.3	1	11/21/23 10:54	11/21/23 16:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	22.9	18.7	1	11/21/23 10:54	11/21/23 16:06	87-68-3	
2-Hexanone	ND	ug/kg	115	11.0	1	11/21/23 10:54	11/21/23 16:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	11.5	3.9	1	11/21/23 10:54	11/21/23 16:06	98-82-8	
p-Isopropyltoluene	ND	ug/kg	11.5	5.6	1	11/21/23 10:54	11/21/23 16:06	99-87-6	
Methylene Chloride	ND	ug/kg	45.8	31.4	1	11/21/23 10:54	11/21/23 16:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	115	11.0	1	11/21/23 10:54	11/21/23 16:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	11.5	4.3	1	11/21/23 10:54	11/21/23 16:06	1634-04-4	
Naphthalene	ND	ug/kg	11.5	6.0	1	11/21/23 10:54	11/21/23 16:06	91-20-3	
n-Propylbenzene	ND	ug/kg	11.5	4.1	1	11/21/23 10:54	11/21/23 16:06	103-65-1	
Styrene	ND	ug/kg	11.5	3.0	1	11/21/23 10:54	11/21/23 16:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	11.5	4.4	1	11/21/23 10:54	11/21/23 16:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	11.5	3.0	1	11/21/23 10:54	11/21/23 16:06	79-34-5	
Tetrachloroethene	7.1J	ug/kg	11.5	3.6	1	11/21/23 10:54	11/21/23 16:06	127-18-4	
Toluene	17.9	ug/kg	11.5	7.9	1	11/21/23 10:54	11/21/23 16:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	11.5	9.3	1	11/21/23 10:54	11/21/23 16:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	11.5	9.6	1	11/21/23 10:54	11/21/23 16:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	11.5	6.0	1	11/21/23 10:54	11/21/23 16:06	71-55-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-BACK-111723 Lab ID: 92699552005 Collected: 11/17/23 17:25 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D/5035A/5030B Volatiles</b>									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/kg	11.5	3.8	1	11/21/23 10:54	11/21/23 16:06	79-00-5	
Trichloroethene	ND	ug/kg	11.5	9.2	1	11/21/23 10:54	11/21/23 16:06	79-01-6	
Trichlorofluoromethane	ND	ug/kg	11.5	6.3	1	11/21/23 10:54	11/21/23 16:06	75-69-4	v1
1,2,3-Trichloropropane	ND	ug/kg	11.5	5.8	1	11/21/23 10:54	11/21/23 16:06	96-18-4	
1,2,4-Trimethylbenzene	6.9J	ug/kg	11.5	6.8	1	11/21/23 10:54	11/21/23 16:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	11.5	3.9	1	11/21/23 10:54	11/21/23 16:06	108-67-8	
Vinyl acetate	ND	ug/kg	115	23.6	1	11/21/23 10:54	11/21/23 16:06	108-05-4	
Vinyl chloride	ND	ug/kg	22.9	5.8	1	11/21/23 10:54	11/21/23 16:06	75-01-4	
Xylene (Total)	12.1J	ug/kg	22.9	6.5	1	11/21/23 10:54	11/21/23 16:06	1330-20-7	
m&p-Xylene	12.1J	ug/kg	22.9	7.8	1	11/21/23 10:54	11/21/23 16:06	179601-23-1	
o-Xylene	ND	ug/kg	11.5	5.1	1	11/21/23 10:54	11/21/23 16:06	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	101	%	70-130		1	11/21/23 10:54	11/21/23 16:06	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1	11/21/23 10:54	11/21/23 16:06	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1	11/21/23 10:54	11/21/23 16:06	17060-07-0	
<b>Percent Moisture</b>									
Analytical Method: SW-846									
Pace Analytical Services - Charlotte									
Percent Moisture	32.4	%	0.10	0.10	1		11/21/23 13:50		N2

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-BACK-111723-DUP Lab ID: 92699552006 Collected: 11/17/23 17:25 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
PCB-1016 (Aroclor 1016)	ND	ug/kg	46.5	18.5	1	11/21/23 10:41	11/21/23 15:30	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	46.5	31.3	1	11/21/23 10:41	11/21/23 15:30	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	46.5	20.7	1	11/21/23 10:41	11/21/23 15:30	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	46.5	11.3	1	11/21/23 10:41	11/21/23 15:30	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	46.5	12.6	1	11/21/23 10:41	11/21/23 15:30	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	46.5	20.5	1	11/21/23 10:41	11/21/23 15:30	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	46.5	20.6	1	11/21/23 10:41	11/21/23 15:30	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	58	%	10-174		1	11/21/23 10:41	11/21/23 15:30	2051-24-3	
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Asheville									
Aluminum	1810	mg/kg	7.9	1.7	1	11/21/23 10:50	11/22/23 12:47	7429-90-5	
Antimony	ND	mg/kg	2.0	1.1	1	11/21/23 10:50	11/22/23 12:47	7440-36-0	
Arsenic	0.80J	mg/kg	2.0	0.32	1	11/21/23 10:50	11/22/23 12:47	7440-38-2	
Barium	15.1	mg/kg	0.79	0.090	1	11/21/23 10:50	11/22/23 12:47	7440-39-3	
Beryllium	0.040J	mg/kg	0.079	0.010	1	11/21/23 10:50	11/22/23 12:47	7440-41-7	
Cadmium	ND	mg/kg	0.079	0.021	1	11/21/23 10:50	11/22/23 12:47	7440-43-9	
Calcium	296	mg/kg	19.8	4.4	1	11/21/23 10:50	11/22/23 12:47	7440-70-2	
Chromium	10.4	mg/kg	0.40	0.059	1	11/21/23 10:50	11/22/23 12:47	7440-47-3	
Cobalt	0.35J	mg/kg	0.40	0.26	1	11/21/23 10:50	11/22/23 12:47	7440-48-4	
Copper	4.1	mg/kg	4.0	0.075	1	11/21/23 10:50	11/22/23 12:47	7440-50-8	
Iron	9560	mg/kg	396	35.7	10	11/21/23 10:50	11/22/23 12:50	7439-89-6	
Lead	3.7	mg/kg	0.79	0.21	1	11/21/23 10:50	11/22/23 12:47	7439-92-1	
Magnesium	402	mg/kg	7.9	0.54	1	11/21/23 10:50	11/22/23 12:47	7439-95-4	
Manganese	45.6	mg/kg	0.40	0.080	1	11/21/23 10:50	11/22/23 12:47	7439-96-5	
Nickel	1.9	mg/kg	0.40	0.067	1	11/21/23 10:50	11/22/23 12:47	7440-02-0	
Potassium	124J	mg/kg	396	9.6	1	11/21/23 10:50	11/22/23 12:47	7440-09-7	
Selenium	ND	mg/kg	0.79	0.61	1	11/21/23 10:50	11/22/23 12:47	7782-49-2	
Silver	ND	mg/kg	0.40	0.037	1	11/21/23 10:50	11/22/23 12:47	7440-22-4	
Sodium	19.5J	mg/kg	396	14.5	1	11/21/23 10:50	11/22/23 12:47	7440-23-5	
Thallium	ND	mg/kg	0.79	0.31	1	11/21/23 10:50	11/22/23 12:47	7440-28-0	
Vanadium	27.9	mg/kg	0.40	0.11	1	11/21/23 10:50	11/22/23 12:47	7440-62-2	
Zinc	12.2	mg/kg	0.79	0.48	1	11/21/23 10:50	11/22/23 12:47	7440-66-6	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Pace Analytical Services - Asheville									
Mercury	ND	mg/kg	0.0080	0.0049	1	11/21/23 11:38	11/21/23 12:47	7439-97-6	
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/kg	478	168	1	11/21/23 10:26	11/21/23 15:46	83-32-9	
Acenaphthylene	ND	ug/kg	478	168	1	11/21/23 10:26	11/21/23 15:46	208-96-8	
Aniline	ND	ug/kg	478	187	1	11/21/23 10:26	11/21/23 15:46	62-53-3	

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-BACK-111723-DUP Lab ID: 92699552006 Collected: 11/17/23 17:25 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
Anthracene	ND	ug/kg	478	156	1	11/21/23 10:26	11/21/23 15:46	120-12-7	
Benzo(a)anthracene	ND	ug/kg	478	159	1	11/21/23 10:26	11/21/23 15:46	56-55-3	
Benzo(a)pyrene	ND	ug/kg	478	165	1	11/21/23 10:26	11/21/23 15:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	478	159	1	11/21/23 10:26	11/21/23 15:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	478	185	1	11/21/23 10:26	11/21/23 15:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	478	168	1	11/21/23 10:26	11/21/23 15:46	207-08-9	
Benzoic Acid	ND	ug/kg	2390	1030	1	11/21/23 10:26	11/21/23 15:46	65-85-0	v1
Benzyl alcohol	ND	ug/kg	956	362	1	11/21/23 10:26	11/21/23 15:46	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	478	184	1	11/21/23 10:26	11/21/23 15:46	101-55-3	
Butylbenzylphthalate	ND	ug/kg	478	201	1	11/21/23 10:26	11/21/23 15:46	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	956	336	1	11/21/23 10:26	11/21/23 15:46	59-50-7	
4-Chloroaniline	ND	ug/kg	956	375	1	11/21/23 10:26	11/21/23 15:46	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	478	198	1	11/21/23 10:26	11/21/23 15:46	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	478	180	1	11/21/23 10:26	11/21/23 15:46	111-44-4	
2-Chloronaphthalene	ND	ug/kg	478	190	1	11/21/23 10:26	11/21/23 15:46	91-58-7	
2-Chlorophenol	ND	ug/kg	478	180	1	11/21/23 10:26	11/21/23 15:46	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	478	178	1	11/21/23 10:26	11/21/23 15:46	7005-72-3	
Chrysene	ND	ug/kg	478	174	1	11/21/23 10:26	11/21/23 15:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	478	184	1	11/21/23 10:26	11/21/23 15:46	53-70-3	
Dibenzofuran	ND	ug/kg	478	172	1	11/21/23 10:26	11/21/23 15:46	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	478	172	1	11/21/23 10:26	11/21/23 15:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	478	170	1	11/21/23 10:26	11/21/23 15:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	478	183	1	11/21/23 10:26	11/21/23 15:46	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	956	323	1	11/21/23 10:26	11/21/23 15:46	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	478	187	1	11/21/23 10:26	11/21/23 15:46	120-83-2	
Diethylphthalate	ND	ug/kg	478	175	1	11/21/23 10:26	11/21/23 15:46	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	478	198	1	11/21/23 10:26	11/21/23 15:46	105-67-9	
Dimethylphthalate	ND	ug/kg	478	174	1	11/21/23 10:26	11/21/23 15:46	131-11-3	
Di-n-butylphthalate	ND	ug/kg	478	161	1	11/21/23 10:26	11/21/23 15:46	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	956	446	1	11/21/23 10:26	11/21/23 15:46	534-52-1	v1
2,4-Dinitrophenol	ND	ug/kg	2390	1480	1	11/21/23 10:26	11/21/23 15:46	51-28-5	v1
2,4-Dinitrotoluene	ND	ug/kg	478	184	1	11/21/23 10:26	11/21/23 15:46	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	478	175	1	11/21/23 10:26	11/21/23 15:46	606-20-2	
Di-n-octylphthalate	ND	ug/kg	478	188	1	11/21/23 10:26	11/21/23 15:46	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	478	185	1	11/21/23 10:26	11/21/23 15:46	117-81-7	
Fluoranthene	ND	ug/kg	478	164	1	11/21/23 10:26	11/21/23 15:46	206-44-0	
Fluorene	ND	ug/kg	478	168	1	11/21/23 10:26	11/21/23 15:46	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	478	207	1	11/21/23 10:26	11/21/23 15:46	87-68-3	
Hexachlorobenzene	ND	ug/kg	478	187	1	11/21/23 10:26	11/21/23 15:46	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	478	274	1	11/21/23 10:26	11/21/23 15:46	77-47-4	
Hexachloroethane	ND	ug/kg	478	183	1	11/21/23 10:26	11/21/23 15:46	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	478	188	1	11/21/23 10:26	11/21/23 15:46	193-39-5	
Isophorone	ND	ug/kg	478	213	1	11/21/23 10:26	11/21/23 15:46	78-59-1	
1-Methylnaphthalene	ND	ug/kg	478	168	1	11/21/23 10:26	11/21/23 15:46	90-12-0	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-BACK-111723-DUP Lab ID: 92699552006 Collected: 11/17/23 17:25 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
2-Methylnaphthalene	ND	ug/kg	478	191	1	11/21/23 10:26	11/21/23 15:46	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	478	196	1	11/21/23 10:26	11/21/23 15:46	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	478	193	1	11/21/23 10:26	11/21/23 15:46	15831-10-4	
Naphthalene	ND	ug/kg	478	162	1	11/21/23 10:26	11/21/23 15:46	91-20-3	
2-Nitroaniline	ND	ug/kg	2390	391	1	11/21/23 10:26	11/21/23 15:46	88-74-4	
3-Nitroaniline	ND	ug/kg	2390	375	1	11/21/23 10:26	11/21/23 15:46	99-09-2	
4-Nitroaniline	ND	ug/kg	956	364	1	11/21/23 10:26	11/21/23 15:46	100-01-6	
Nitrobenzene	ND	ug/kg	478	222	1	11/21/23 10:26	11/21/23 15:46	98-95-3	
2-Nitrophenol	ND	ug/kg	478	207	1	11/21/23 10:26	11/21/23 15:46	88-75-5	
4-Nitrophenol	ND	ug/kg	2390	924	1	11/21/23 10:26	11/21/23 15:46	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	478	161	1	11/21/23 10:26	11/21/23 15:46	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	478	180	1	11/21/23 10:26	11/21/23 15:46	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	478	170	1	11/21/23 10:26	11/21/23 15:46	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	478	227	1	11/21/23 10:26	11/21/23 15:46	108-60-1	
Pentachlorophenol	ND	ug/kg	956	468	1	11/21/23 10:26	11/21/23 15:46	87-86-5	
Phenanthrene	ND	ug/kg	478	156	1	11/21/23 10:26	11/21/23 15:46	85-01-8	
Phenol	ND	ug/kg	478	213	1	11/21/23 10:26	11/21/23 15:46	108-95-2	
Pyrene	ND	ug/kg	478	194	1	11/21/23 10:26	11/21/23 15:46	129-00-0	
Pyridine	ND	ug/kg	478	151	1	11/21/23 10:26	11/21/23 15:46	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/kg	478	188	1	11/21/23 10:26	11/21/23 15:46	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	478	219	1	11/21/23 10:26	11/21/23 15:46	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	478	197	1	11/21/23 10:26	11/21/23 15:46	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	55	%	10-130		1	11/21/23 10:26	11/21/23 15:46	4165-60-0	
2-Fluorobiphenyl (S)	30	%	10-130		1	11/21/23 10:26	11/21/23 15:46	321-60-8	
Terphenyl-d14 (S)	25	%	10-130		1	11/21/23 10:26	11/21/23 15:46	1718-51-0	
Phenol-d6 (S)	58	%	10-130		1	11/21/23 10:26	11/21/23 15:46	13127-88-3	
2-Fluorophenol (S)	56	%	10-130		1	11/21/23 10:26	11/21/23 15:46	367-12-4	
2,4,6-Tribromophenol (S)	46	%	10-130		1	11/21/23 10:26	11/21/23 15:46	118-79-6	
<b>8260D/5035A/5030B Volatiles</b>									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/kg	161	51.8	1	11/21/23 10:54	11/21/23 16:24	67-64-1	
Benzene	16.3	ug/kg	8.1	3.2	1	11/21/23 10:54	11/21/23 16:24	71-43-2	
Bromobenzene	ND	ug/kg	8.1	2.6	1	11/21/23 10:54	11/21/23 16:24	108-86-1	
Bromochloromethane	ND	ug/kg	8.1	2.4	1	11/21/23 10:54	11/21/23 16:24	74-97-5	
Bromodichloromethane	ND	ug/kg	8.1	3.1	1	11/21/23 10:54	11/21/23 16:24	75-27-4	
Bromoform	ND	ug/kg	8.1	2.8	1	11/21/23 10:54	11/21/23 16:24	75-25-2	
Bromomethane	ND	ug/kg	32.3	25.0	1	11/21/23 10:54	11/21/23 16:24	74-83-9	
2-Butanone (MEK)	ND	ug/kg	161	38.7	1	11/21/23 10:54	11/21/23 16:24	78-93-3	
n-Butylbenzene	ND	ug/kg	8.1	5.1	1	11/21/23 10:54	11/21/23 16:24	104-51-8	
sec-Butylbenzene	ND	ug/kg	8.1	3.6	1	11/21/23 10:54	11/21/23 16:24	135-98-8	
tert-Butylbenzene	ND	ug/kg	8.1	2.9	1	11/21/23 10:54	11/21/23 16:24	98-06-6	v1
Carbon tetrachloride	ND	ug/kg	8.1	3.0	1	11/21/23 10:54	11/21/23 16:24	56-23-5	IK

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-BACK-111723-DUP Lab ID: 92699552006 Collected: 11/17/23 17:25 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B Volatiles									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
Chlorobenzene	ND	ug/kg	8.1	4.6	1	11/21/23 10:54	11/21/23 16:24	108-90-7	
Chloroethane	ND	ug/kg	16.1	6.2	1	11/21/23 10:54	11/21/23 16:24	75-00-3	
Chloroform	ND	ug/kg	8.1	6.7	1	11/21/23 10:54	11/21/23 16:24	67-66-3	
Chloromethane	ND	ug/kg	16.1	6.8	1	11/21/23 10:54	11/21/23 16:24	74-87-3	
2-Chlorotoluene	ND	ug/kg	8.1	2.9	1	11/21/23 10:54	11/21/23 16:24	95-49-8	
4-Chlorotoluene	ND	ug/kg	8.1	4.5	1	11/21/23 10:54	11/21/23 16:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	8.1	3.1	1	11/21/23 10:54	11/21/23 16:24	96-12-8	
Dibromochloromethane	ND	ug/kg	8.1	4.5	1	11/21/23 10:54	11/21/23 16:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	8.1	3.6	1	11/21/23 10:54	11/21/23 16:24	106-93-4	
Dibromomethane	ND	ug/kg	8.1	1.7	1	11/21/23 10:54	11/21/23 16:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	8.1	2.9	1	11/21/23 10:54	11/21/23 16:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	8.1	2.5	1	11/21/23 10:54	11/21/23 16:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	8.1	2.1	1	11/21/23 10:54	11/21/23 16:24	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	16.1	8.2	1	11/21/23 10:54	11/21/23 16:24	75-71-8	v1
1,1-Dichloroethane	ND	ug/kg	8.1	3.3	1	11/21/23 10:54	11/21/23 16:24	75-34-3	
1,2-Dichloroethane	ND	ug/kg	8.1	5.3	1	11/21/23 10:54	11/21/23 16:24	107-06-2	
1,1-Dichloroethene	ND	ug/kg	8.1	3.3	1	11/21/23 10:54	11/21/23 16:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	8.1	2.8	1	11/21/23 10:54	11/21/23 16:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	8.1	6.9	1	11/21/23 10:54	11/21/23 16:24	156-60-5	
1,2-Dichloropropane	ND	ug/kg	8.1	2.4	1	11/21/23 10:54	11/21/23 16:24	78-87-5	
1,3-Dichloropropane	ND	ug/kg	8.1	2.5	1	11/21/23 10:54	11/21/23 16:24	142-28-9	
2,2-Dichloropropane	ND	ug/kg	8.1	6.1	1	11/21/23 10:54	11/21/23 16:24	594-20-7	
1,1-Dichloropropene	ND	ug/kg	8.1	3.9	1	11/21/23 10:54	11/21/23 16:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	8.1	2.2	1	11/21/23 10:54	11/21/23 16:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	8.1	2.8	1	11/21/23 10:54	11/21/23 16:24	10061-02-6	
Diisopropyl ether	ND	ug/kg	8.1	2.2	1	11/21/23 10:54	11/21/23 16:24	108-20-3	
Ethylbenzene	7.9J	ug/kg	8.1	3.8	1	11/21/23 10:54	11/21/23 16:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	16.1	13.2	1	11/21/23 10:54	11/21/23 16:24	87-68-3	
2-Hexanone	ND	ug/kg	80.7	7.8	1	11/21/23 10:54	11/21/23 16:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	8.1	2.7	1	11/21/23 10:54	11/21/23 16:24	98-82-8	
p-Isopropyltoluene	ND	ug/kg	8.1	4.0	1	11/21/23 10:54	11/21/23 16:24	99-87-6	
Methylene Chloride	ND	ug/kg	32.3	22.1	1	11/21/23 10:54	11/21/23 16:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	80.7	7.8	1	11/21/23 10:54	11/21/23 16:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	8.1	3.0	1	11/21/23 10:54	11/21/23 16:24	1634-04-4	
Naphthalene	ND	ug/kg	8.1	4.2	1	11/21/23 10:54	11/21/23 16:24	91-20-3	
n-Propylbenzene	ND	ug/kg	8.1	2.9	1	11/21/23 10:54	11/21/23 16:24	103-65-1	
Styrene	ND	ug/kg	8.1	2.1	1	11/21/23 10:54	11/21/23 16:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	8.1	3.1	1	11/21/23 10:54	11/21/23 16:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	8.1	2.1	1	11/21/23 10:54	11/21/23 16:24	79-34-5	
Tetrachloroethene	ND	ug/kg	8.1	2.5	1	11/21/23 10:54	11/21/23 16:24	127-18-4	
Toluene	88.0	ug/kg	8.1	5.6	1	11/21/23 10:54	11/21/23 16:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	8.1	6.5	1	11/21/23 10:54	11/21/23 16:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	8.1	6.8	1	11/21/23 10:54	11/21/23 16:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	8.1	4.2	1	11/21/23 10:54	11/21/23 16:24	71-55-6	

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-BACK-111723-DUP Lab ID: 92699552006 Collected: 11/17/23 17:25 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D/5035A/5030B Volatiles</b>									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/kg	8.1	2.7	1	11/21/23 10:54	11/21/23 16:24	79-00-5	
Trichloroethene	ND	ug/kg	8.1	6.5	1	11/21/23 10:54	11/21/23 16:24	79-01-6	
Trichlorofluoromethane	ND	ug/kg	8.1	4.4	1	11/21/23 10:54	11/21/23 16:24	75-69-4	v1
1,2,3-Trichloropropane	ND	ug/kg	8.1	4.1	1	11/21/23 10:54	11/21/23 16:24	96-18-4	
1,2,4-Trimethylbenzene	5.1J	ug/kg	8.1	4.8	1	11/21/23 10:54	11/21/23 16:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	8.1	2.7	1	11/21/23 10:54	11/21/23 16:24	108-67-8	
Vinyl acetate	ND	ug/kg	80.7	16.6	1	11/21/23 10:54	11/21/23 16:24	108-05-4	
Vinyl chloride	ND	ug/kg	16.1	4.1	1	11/21/23 10:54	11/21/23 16:24	75-01-4	
Xylene (Total)	10.5J	ug/kg	16.1	4.6	1	11/21/23 10:54	11/21/23 16:24	1330-20-7	
m&p-Xylene	10.5J	ug/kg	16.1	5.5	1	11/21/23 10:54	11/21/23 16:24	179601-23-1	
o-Xylene	ND	ug/kg	8.1	3.6	1	11/21/23 10:54	11/21/23 16:24	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	100	%	70-130		1	11/21/23 10:54	11/21/23 16:24	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		1	11/21/23 10:54	11/21/23 16:24	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1	11/21/23 10:54	11/21/23 16:24	17060-07-0	
<b>Percent Moisture</b>									
Analytical Method: SW-846									
Pace Analytical Services - Charlotte									
Percent Moisture	29.8	%	0.10	0.10	1		11/21/23 13:50		N2

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire  
Pace Project No.: 92699552

Sample: PSMF-TB-111723 Lab ID: 92699552007 Collected: 11/17/23 22:00 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/kg	334	117	1	11/21/23 10:26	11/21/23 16:14	83-32-9	
Acenaphthylene	ND	ug/kg	334	117	1	11/21/23 10:26	11/21/23 16:14	208-96-8	
Aniline	ND	ug/kg	334	131	1	11/21/23 10:26	11/21/23 16:14	62-53-3	
Anthracene	ND	ug/kg	334	109	1	11/21/23 10:26	11/21/23 16:14	120-12-7	
Benzo(a)anthracene	ND	ug/kg	334	111	1	11/21/23 10:26	11/21/23 16:14	56-55-3	
Benzo(a)pyrene	ND	ug/kg	334	115	1	11/21/23 10:26	11/21/23 16:14	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	334	111	1	11/21/23 10:26	11/21/23 16:14	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	334	130	1	11/21/23 10:26	11/21/23 16:14	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	334	117	1	11/21/23 10:26	11/21/23 16:14	207-08-9	
Benzoic Acid	ND	ug/kg	1670	718	1	11/21/23 10:26	11/21/23 16:14	65-85-0	v1
Benzyl alcohol	ND	ug/kg	668	253	1	11/21/23 10:26	11/21/23 16:14	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	334	129	1	11/21/23 10:26	11/21/23 16:14	101-55-3	
Butylbenzylphthalate	ND	ug/kg	334	141	1	11/21/23 10:26	11/21/23 16:14	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	668	235	1	11/21/23 10:26	11/21/23 16:14	59-50-7	
4-Chloroaniline	ND	ug/kg	668	262	1	11/21/23 10:26	11/21/23 16:14	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	334	139	1	11/21/23 10:26	11/21/23 16:14	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	334	126	1	11/21/23 10:26	11/21/23 16:14	111-44-4	
2-Chloronaphthalene	ND	ug/kg	334	133	1	11/21/23 10:26	11/21/23 16:14	91-58-7	
2-Chlorophenol	ND	ug/kg	334	126	1	11/21/23 10:26	11/21/23 16:14	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	334	125	1	11/21/23 10:26	11/21/23 16:14	7005-72-3	
Chrysene	ND	ug/kg	334	121	1	11/21/23 10:26	11/21/23 16:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	334	129	1	11/21/23 10:26	11/21/23 16:14	53-70-3	
Dibenzofuran	ND	ug/kg	334	120	1	11/21/23 10:26	11/21/23 16:14	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	334	120	1	11/21/23 10:26	11/21/23 16:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	334	118	1	11/21/23 10:26	11/21/23 16:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	334	128	1	11/21/23 10:26	11/21/23 16:14	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	668	226	1	11/21/23 10:26	11/21/23 16:14	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	334	131	1	11/21/23 10:26	11/21/23 16:14	120-83-2	
Diethylphthalate	ND	ug/kg	334	122	1	11/21/23 10:26	11/21/23 16:14	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	334	139	1	11/21/23 10:26	11/21/23 16:14	105-67-9	
Dimethylphthalate	ND	ug/kg	334	121	1	11/21/23 10:26	11/21/23 16:14	131-11-3	
Di-n-butylphthalate	ND	ug/kg	334	112	1	11/21/23 10:26	11/21/23 16:14	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	668	312	1	11/21/23 10:26	11/21/23 16:14	534-52-1	v1
2,4-Dinitrophenol	ND	ug/kg	1670	1030	1	11/21/23 10:26	11/21/23 16:14	51-28-5	v1
2,4-Dinitrotoluene	ND	ug/kg	334	129	1	11/21/23 10:26	11/21/23 16:14	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	334	122	1	11/21/23 10:26	11/21/23 16:14	606-20-2	
Di-n-octylphthalate	ND	ug/kg	334	132	1	11/21/23 10:26	11/21/23 16:14	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	334	130	1	11/21/23 10:26	11/21/23 16:14	117-81-7	
Fluoranthene	ND	ug/kg	334	114	1	11/21/23 10:26	11/21/23 16:14	206-44-0	
Fluorene	ND	ug/kg	334	117	1	11/21/23 10:26	11/21/23 16:14	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	334	145	1	11/21/23 10:26	11/21/23 16:14	87-68-3	
Hexachlorobenzene	ND	ug/kg	334	131	1	11/21/23 10:26	11/21/23 16:14	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	334	191	1	11/21/23 10:26	11/21/23 16:14	77-47-4	
Hexachloroethane	ND	ug/kg	334	128	1	11/21/23 10:26	11/21/23 16:14	67-72-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-TB-111723 Lab ID: 92699552007 Collected: 11/17/23 22:00 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Microwave</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3546									
Pace Analytical Services - Charlotte									
Indeno(1,2,3-cd)pyrene	ND	ug/kg	334	132	1	11/21/23 10:26	11/21/23 16:14	193-39-5	
Isophorone	ND	ug/kg	334	149	1	11/21/23 10:26	11/21/23 16:14	78-59-1	
1-Methylnaphthalene	ND	ug/kg	334	117	1	11/21/23 10:26	11/21/23 16:14	90-12-0	
2-Methylnaphthalene	ND	ug/kg	334	134	1	11/21/23 10:26	11/21/23 16:14	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	334	137	1	11/21/23 10:26	11/21/23 16:14	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	334	135	1	11/21/23 10:26	11/21/23 16:14	15831-10-4	
Naphthalene	ND	ug/kg	334	113	1	11/21/23 10:26	11/21/23 16:14	91-20-3	
2-Nitroaniline	ND	ug/kg	1670	273	1	11/21/23 10:26	11/21/23 16:14	88-74-4	
3-Nitroaniline	ND	ug/kg	1670	262	1	11/21/23 10:26	11/21/23 16:14	99-09-2	
4-Nitroaniline	ND	ug/kg	668	254	1	11/21/23 10:26	11/21/23 16:14	100-01-6	
Nitrobenzene	ND	ug/kg	334	155	1	11/21/23 10:26	11/21/23 16:14	98-95-3	
2-Nitrophenol	ND	ug/kg	334	145	1	11/21/23 10:26	11/21/23 16:14	88-75-5	
4-Nitrophenol	ND	ug/kg	1670	646	1	11/21/23 10:26	11/21/23 16:14	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	334	112	1	11/21/23 10:26	11/21/23 16:14	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	334	126	1	11/21/23 10:26	11/21/23 16:14	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	334	118	1	11/21/23 10:26	11/21/23 16:14	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	334	159	1	11/21/23 10:26	11/21/23 16:14	108-60-1	
Pentachlorophenol	ND	ug/kg	668	327	1	11/21/23 10:26	11/21/23 16:14	87-86-5	
Phenanthrene	ND	ug/kg	334	109	1	11/21/23 10:26	11/21/23 16:14	85-01-8	
Phenol	ND	ug/kg	334	149	1	11/21/23 10:26	11/21/23 16:14	108-95-2	
Pyrene	ND	ug/kg	334	136	1	11/21/23 10:26	11/21/23 16:14	129-00-0	
Pyridine	ND	ug/kg	334	105	1	11/21/23 10:26	11/21/23 16:14	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/kg	334	132	1	11/21/23 10:26	11/21/23 16:14	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	334	153	1	11/21/23 10:26	11/21/23 16:14	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	334	138	1	11/21/23 10:26	11/21/23 16:14	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	58	%	10-130		1	11/21/23 10:26	11/21/23 16:14	4165-60-0	
2-Fluorobiphenyl (S)	56	%	10-130		1	11/21/23 10:26	11/21/23 16:14	321-60-8	
Terphenyl-d14 (S)	65	%	10-130		1	11/21/23 10:26	11/21/23 16:14	1718-51-0	
Phenol-d6 (S)	57	%	10-130		1	11/21/23 10:26	11/21/23 16:14	13127-88-3	
2-Fluorophenol (S)	56	%	10-130		1	11/21/23 10:26	11/21/23 16:14	367-12-4	
2,4,6-Tribromophenol (S)	60	%	10-130		1	11/21/23 10:26	11/21/23 16:14	118-79-6	
<b>8260D/5035A/5030B Volatiles</b>									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/kg	100	32.2	1	11/21/23 10:54	11/21/23 17:38	67-64-1	
Benzene	10.0	ug/kg	5.0	2.0	1	11/21/23 10:54	11/21/23 17:38	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1.6	1	11/21/23 10:54	11/21/23 17:38	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1.5	1	11/21/23 10:54	11/21/23 17:38	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1.9	1	11/21/23 10:54	11/21/23 17:38	75-27-4	
Bromoform	ND	ug/kg	5.0	1.8	1	11/21/23 10:54	11/21/23 17:38	75-25-2	
Bromomethane	ND	ug/kg	20.1	15.6	1	11/21/23 10:54	11/21/23 17:38	74-83-9	
2-Butanone (MEK)	ND	ug/kg	100	24.1	1	11/21/23 10:54	11/21/23 17:38	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	3.2	1	11/21/23 10:54	11/21/23 17:38	104-51-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Sample: PSMF-TB-111723 Lab ID: 92699552007 Collected: 11/17/23 22:00 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B Volatiles									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
sec-Butylbenzene	ND	ug/kg	5.0	2.2	1	11/21/23 10:54	11/21/23 17:38	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1.8	1	11/21/23 10:54	11/21/23 17:38	98-06-6	v1
Carbon tetrachloride	ND	ug/kg	5.0	1.9	1	11/21/23 10:54	11/21/23 17:38	56-23-5	IK
Chlorobenzene	ND	ug/kg	5.0	2.9	1	11/21/23 10:54	11/21/23 17:38	108-90-7	
Chloroethane	ND	ug/kg	10.0	3.9	1	11/21/23 10:54	11/21/23 17:38	75-00-3	
Chloroform	ND	ug/kg	5.0	4.2	1	11/21/23 10:54	11/21/23 17:38	67-66-3	
Chloromethane	ND	ug/kg	10.0	4.2	1	11/21/23 10:54	11/21/23 17:38	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1.8	1	11/21/23 10:54	11/21/23 17:38	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	2.8	1	11/21/23 10:54	11/21/23 17:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1.9	1	11/21/23 10:54	11/21/23 17:38	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	2.8	1	11/21/23 10:54	11/21/23 17:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	2.2	1	11/21/23 10:54	11/21/23 17:38	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1.1	1	11/21/23 10:54	11/21/23 17:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1.8	1	11/21/23 10:54	11/21/23 17:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1.6	1	11/21/23 10:54	11/21/23 17:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1.3	1	11/21/23 10:54	11/21/23 17:38	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.0	5.1	1	11/21/23 10:54	11/21/23 17:38	75-71-8	v1
1,1-Dichloroethane	ND	ug/kg	5.0	2.1	1	11/21/23 10:54	11/21/23 17:38	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	3.3	1	11/21/23 10:54	11/21/23 17:38	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	2.1	1	11/21/23 10:54	11/21/23 17:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1.7	1	11/21/23 10:54	11/21/23 17:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	4.3	1	11/21/23 10:54	11/21/23 17:38	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1.5	1	11/21/23 10:54	11/21/23 17:38	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1.6	1	11/21/23 10:54	11/21/23 17:38	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	3.8	1	11/21/23 10:54	11/21/23 17:38	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	2.4	1	11/21/23 10:54	11/21/23 17:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1.4	1	11/21/23 10:54	11/21/23 17:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1.7	1	11/21/23 10:54	11/21/23 17:38	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.0	1.4	1	11/21/23 10:54	11/21/23 17:38	108-20-3	
Ethylbenzene	8.5	ug/kg	5.0	2.3	1	11/21/23 10:54	11/21/23 17:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	10.0	8.2	1	11/21/23 10:54	11/21/23 17:38	87-68-3	
2-Hexanone	ND	ug/kg	50.2	4.8	1	11/21/23 10:54	11/21/23 17:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1.7	1	11/21/23 10:54	11/21/23 17:38	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	2.5	1	11/21/23 10:54	11/21/23 17:38	99-87-6	
Methylene Chloride	ND	ug/kg	20.1	13.8	1	11/21/23 10:54	11/21/23 17:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50.2	4.8	1	11/21/23 10:54	11/21/23 17:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1.9	1	11/21/23 10:54	11/21/23 17:38	1634-04-4	
Naphthalene	ND	ug/kg	5.0	2.6	1	11/21/23 10:54	11/21/23 17:38	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1.8	1	11/21/23 10:54	11/21/23 17:38	103-65-1	
Styrene	ND	ug/kg	5.0	1.3	1	11/21/23 10:54	11/21/23 17:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1.9	1	11/21/23 10:54	11/21/23 17:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1.3	1	11/21/23 10:54	11/21/23 17:38	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1.6	1	11/21/23 10:54	11/21/23 17:38	127-18-4	
Toluene	13.2	ug/kg	5.0	3.5	1	11/21/23 10:54	11/21/23 17:38	108-88-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Parker Street Mill Fire  
Pace Project No.: 92699552

Sample: PSMF-TB-111723 Lab ID: 92699552007 Collected: 11/17/23 22:00 Received: 11/20/23 12:27 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260D/5035A/5030B Volatiles</b>									
Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Charlotte									
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	4.1	1	11/21/23 10:54	11/21/23 17:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	4.2	1	11/21/23 10:54	11/21/23 17:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	2.6	1	11/21/23 10:54	11/21/23 17:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1.7	1	11/21/23 10:54	11/21/23 17:38	79-00-5	
Trichloroethene	ND	ug/kg	5.0	4.0	1	11/21/23 10:54	11/21/23 17:38	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	2.8	1	11/21/23 10:54	11/21/23 17:38	75-69-4	v1
1,2,3-Trichloropropane	ND	ug/kg	5.0	2.5	1	11/21/23 10:54	11/21/23 17:38	96-18-4	
1,2,4-Trimethylbenzene	3.0J	ug/kg	5.0	3.0	1	11/21/23 10:54	11/21/23 17:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1.7	1	11/21/23 10:54	11/21/23 17:38	108-67-8	
Vinyl acetate	ND	ug/kg	50.2	10.3	1	11/21/23 10:54	11/21/23 17:38	108-05-4	
Vinyl chloride	ND	ug/kg	10.0	2.6	1	11/21/23 10:54	11/21/23 17:38	75-01-4	
Xylene (Total)	8.0J	ug/kg	10.0	2.9	1	11/21/23 10:54	11/21/23 17:38	1330-20-7	
m&p-Xylene	8.0J	ug/kg	10.0	3.4	1	11/21/23 10:54	11/21/23 17:38	179601-23-1	
o-Xylene	ND	ug/kg	5.0	2.2	1	11/21/23 10:54	11/21/23 17:38	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	101	%	70-130		1	11/21/23 10:54	11/21/23 17:38	2037-26-5	u8
4-Bromofluorobenzene (S)	103	%	70-130		1	11/21/23 10:54	11/21/23 17:38	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1	11/21/23 10:54	11/21/23 17:38	17060-07-0	
<b>Percent Moisture</b>									
Analytical Method: SW-846									
Pace Analytical Services - Charlotte									
Percent Moisture	0.21	%	0.10	0.10	1		11/21/23 13:50		N2

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire  
Pace Project No.: 92699552

QC Batch: 814757 Analysis Method: EPA 7471B  
QC Batch Method: EPA 7471B Analysis Description: 7471 Mercury  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92699552001, 92699552002, 92699552004, 92699552005, 92699552006

METHOD BLANK: 4217988 Matrix: Solid  
Associated Lab Samples: 92699552001, 92699552002, 92699552004, 92699552005, 92699552006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0060	0.0037	11/21/23 12:31	

LABORATORY CONTROL SAMPLE: 4217989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.083	0.082	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4217990 4217991

Parameter	Units	92699552004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.084	0.084	0.087	0.088	102	104	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire  
Pace Project No.: 92699552

QC Batch:	815284	Analysis Method:	EPA 7471B
QC Batch Method:	EPA 7471B	Analysis Description:	7471 Mercury
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92699552003

METHOD BLANK: 4220670 Matrix: Solid  
Associated Lab Samples: 92699552003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0060	0.0037	11/23/23 17:29	

LABORATORY CONTROL SAMPLE: 4220671

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.083	0.089	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4220672 4220673

Parameter	Units	92699552003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.1	0.1	0.11	0.12	110	118	75-125	7	20	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire  
Pace Project No.: 92699552

QC Batch: 814719 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3050B Analysis Description: 6010 MET  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92699552001, 92699552002, 92699552004, 92699552005, 92699552006

METHOD BLANK: 4217797 Matrix: Solid  
Associated Lab Samples: 92699552001, 92699552002, 92699552004, 92699552005, 92699552006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	mg/kg	ND	10.0	2.2	11/22/23 11:45	
Antimony	mg/kg	ND	2.5	1.4	11/22/23 11:45	
Arsenic	mg/kg	ND	2.5	0.41	11/22/23 11:45	
Barium	mg/kg	ND	1.0	0.11	11/22/23 11:45	
Beryllium	mg/kg	ND	0.10	0.013	11/22/23 11:45	
Cadmium	mg/kg	ND	0.10	0.026	11/22/23 11:45	
Calcium	mg/kg	ND	25.0	5.6	11/22/23 11:45	
Chromium	mg/kg	ND	0.50	0.075	11/22/23 11:45	
Cobalt	mg/kg	ND	0.50	0.33	11/22/23 11:45	
Copper	mg/kg	ND	5.0	0.095	11/22/23 11:45	
Iron	mg/kg	ND	50.0	4.5	11/22/23 11:45	
Lead	mg/kg	ND	1.0	0.26	11/22/23 11:45	
Magnesium	mg/kg	ND	10.0	0.69	11/22/23 11:45	
Manganese	mg/kg	ND	0.50	0.10	11/22/23 11:45	
Nickel	mg/kg	ND	0.50	0.085	11/22/23 11:45	
Potassium	mg/kg	ND	500	12.2	11/22/23 11:45	
Selenium	mg/kg	ND	1.0	0.77	11/22/23 11:45	
Silver	mg/kg	ND	0.50	0.047	11/22/23 11:45	
Sodium	mg/kg	ND	500	18.4	11/22/23 11:45	
Thallium	mg/kg	ND	1.0	0.39	11/22/23 11:45	
Vanadium	mg/kg	ND	0.50	0.14	11/22/23 11:45	
Zinc	mg/kg	ND	1.0	0.60	11/22/23 11:45	

LABORATORY CONTROL SAMPLE: 4217798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	500	516	103	80-120	
Antimony	mg/kg	50	50.7	101	80-120	
Arsenic	mg/kg	50	50.2	100	80-120	
Barium	mg/kg	50	53.8	108	80-120	
Beryllium	mg/kg	50	51.8	104	80-120	
Cadmium	mg/kg	50	51.1	102	80-120	
Calcium	mg/kg	500	533	107	80-120	
Chromium	mg/kg	50	52.4	105	80-120	
Cobalt	mg/kg	50	51.9	104	80-120	
Copper	mg/kg	50	52.9	106	80-120	
Iron	mg/kg	500	541	108	80-120	
Lead	mg/kg	50	51.0	102	80-120	
Magnesium	mg/kg	500	502	100	80-120	

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire

Pace Project No.: 92699552

LABORATORY CONTROL SAMPLE: 4217798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese	mg/kg	50	53.5	107	80-120	
Nickel	mg/kg	50	51.6	103	80-120	
Potassium	mg/kg	500	535	107	80-120	
Selenium	mg/kg	50	48.2	96	80-120	
Silver	mg/kg	25	26.0	104	80-120	
Sodium	mg/kg	500	549	110	80-120	
Thallium	mg/kg	50	51.3	103	80-120	
Vanadium	mg/kg	50	51.7	103	80-120	
Zinc	mg/kg	50	51.6	103	80-120	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 4217799 4217800

Parameter	Units	92699552004	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits			
Aluminum	mg/kg	5400	462	464	8770	10300	731	1060	75-125	16	20	M1
Antimony	mg/kg	ND	46.2	46.4	22.1	21.3	48	46	75-125	3	20	M1
Arsenic	mg/kg	2.8	46.2	46.4	44.4	44.1	90	89	75-125	1	20	
Barium	mg/kg	31.1	46.2	46.4	72.3	87.7	89	122	75-125	19	20	
Beryllium	mg/kg	0.11	46.2	46.4	43.4	43.1	94	93	75-125	1	20	
Cadmium	mg/kg	0.029J	46.2	46.4	42.8	42.4	93	91	75-125	1	20	
Calcium	mg/kg	1720	462	464	2300	2840	124	241	75-125	21	20	M1, R1
Chromium	mg/kg	67.9	46.2	46.4	112	119	96	111	75-125	6	20	
Cobalt	mg/kg	5.4	46.2	46.4	72.7	56.7	146	111	75-125	25	20	M1, R1
Copper	mg/kg	18.1	46.2	46.4	67.5	78.3	107	130	75-125	15	20	M1
Iron	mg/kg	30600	462	464	42500	44500	2570	3000	75-125	5	20	M1
Lead	mg/kg	28.0	46.2	46.4	59.8	55.3	69	59	75-125	8	20	M1
Magnesium	mg/kg	1530	462	464	2540	3120	218	343	75-125	21	20	M1, R1
Manganese	mg/kg	249	46.2	46.4	264	556	32	663	75-125	71	20	M1, R1
Nickel	mg/kg	6.8	46.2	46.4	56.4	56.1	107	106	75-125	1	20	
Potassium	mg/kg	230J	462	464	673	813	96	126	75-125	19	20	M1
Selenium	mg/kg	ND	46.2	46.4	39.2	38.0	84	82	75-125	3	20	
Silver	mg/kg	ND	23.1	23.1	23.0	22.7	100	98	75-125	1	20	
Sodium	mg/kg	45.1J	462	464	482	516	95	101	75-125	7	20	
Thallium	mg/kg	ND	46.2	46.4	43.6	43.0	94	93	75-125	1	20	
Vanadium	mg/kg	103	46.2	46.4	150	159	102	122	75-125	6	20	
Zinc	mg/kg	53.0	46.2	46.4	104	108	110	118	75-125	4	20	

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire  
Pace Project No.: 92699552

QC Batch:	814978	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3050B	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92699552003

METHOD BLANK: 4219148 Matrix: Solid

Associated Lab Samples: 92699552003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	mg/kg	ND	10.0	2.2	11/22/23 12:52	
Antimony	mg/kg	ND	2.5	1.4	11/22/23 12:52	
Arsenic	mg/kg	ND	2.5	0.41	11/22/23 12:52	
Barium	mg/kg	ND	1.0	0.11	11/22/23 12:52	
Beryllium	mg/kg	ND	0.10	0.013	11/22/23 12:52	
Cadmium	mg/kg	ND	0.10	0.026	11/22/23 12:52	
Calcium	mg/kg	ND	25.0	5.6	11/22/23 12:52	
Chromium	mg/kg	ND	0.50	0.075	11/22/23 12:52	
Cobalt	mg/kg	ND	0.50	0.33	11/22/23 12:52	
Copper	mg/kg	ND	5.0	0.095	11/22/23 12:52	
Iron	mg/kg	ND	50.0	4.5	11/22/23 12:52	
Lead	mg/kg	ND	1.0	0.26	11/22/23 12:52	
Magnesium	mg/kg	ND	10.0	0.69	11/22/23 12:52	
Manganese	mg/kg	ND	0.50	0.10	11/22/23 12:52	
Nickel	mg/kg	ND	0.50	0.085	11/22/23 12:52	
Potassium	mg/kg	ND	500	12.2	11/22/23 12:52	
Selenium	mg/kg	ND	1.0	0.77	11/22/23 12:52	
Silver	mg/kg	ND	0.50	0.047	11/22/23 12:52	
Sodium	mg/kg	ND	500	18.4	11/22/23 12:52	
Thallium	mg/kg	ND	1.0	0.39	11/22/23 12:52	
Vanadium	mg/kg	ND	0.50	0.14	11/22/23 12:52	
Zinc	mg/kg	ND	1.0	0.60	11/22/23 12:52	

LABORATORY CONTROL SAMPLE: 4219149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	500	482	96	80-120	
Antimony	mg/kg	50	45.4	91	80-120	
Arsenic	mg/kg	50	47.1	94	80-120	
Barium	mg/kg	50	47.4	95	80-120	
Beryllium	mg/kg	50	48.3	97	80-120	
Cadmium	mg/kg	50	48.1	96	80-120	
Calcium	mg/kg	500	475	95	80-120	
Chromium	mg/kg	50	49.2	98	80-120	
Cobalt	mg/kg	50	49.2	98	80-120	
Copper	mg/kg	50	49.7	99	80-120	
Iron	mg/kg	500	481	96	80-120	
Lead	mg/kg	50	48.0	96	80-120	
Magnesium	mg/kg	500	472	94	80-120	

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire  
Pace Project No.: 92699552

LABORATORY CONTROL SAMPLE: 4219149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese	mg/kg	50	47.3	95	80-120	
Nickel	mg/kg	50	48.6	97	80-120	
Potassium	mg/kg	500	465J	93	80-120	
Selenium	mg/kg	50	45.0	90	80-120	
Silver	mg/kg	25	24.6	98	80-120	
Sodium	mg/kg	500	480J	96	80-120	
Thallium	mg/kg	50	48.4	97	80-120	
Vanadium	mg/kg	50	48.5	97	80-120	
Zinc	mg/kg	50	48.6	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4219150 4219151

Parameter	Units	92699552003	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Aluminum	mg/kg	4750	482	458	5960	5700	251	207	75-125	5	20
Antimony	mg/kg	ND	48.2	45.8	24.8	24.1	51	52	75-125	3	20
Arsenic	mg/kg	2.2	48.2	45.8	44.8	42.2	88	88	75-125	6	20
Barium	mg/kg	32.4	48.2	45.8	80.5	67.7	100	77	75-125	17	20
Beryllium	mg/kg	0.060J	48.2	45.8	45.2	41.7	94	91	75-125	8	20
Cadmium	mg/kg	1.3	48.2	45.8	44.8	40.8	90	86	75-125	9	20
Calcium	mg/kg	1340	482	458	1800	4610	96	715	75-125	87	20
Chromium	mg/kg	65.4	48.2	45.8	112	86.3	97	46	75-125	26	20
Cobalt	mg/kg	7.3	48.2	45.8	47.4	41.9	83	76	75-125	12	20
Copper	mg/kg	15.6	48.2	45.8	59.5	71.9	91	123	75-125	19	20
Iron	mg/kg	22000	482	458	15600	33500	-1340	2510	75-125	73	20
Lead	mg/kg	10.4	48.2	45.8	52.9	47.9	88	82	75-125	10	20
Magnesium	mg/kg	2590	482	458	2090	3980	-104	303	75-125	62	20
Manganese	mg/kg	245	48.2	45.8	230	217	-31	-61	75-125	6	20
Nickel	mg/kg	7.8	48.2	45.8	50.2	48.5	88	89	75-125	4	20
Potassium	mg/kg	251J	482	458	860	705	126	99	75-125	20	20
Selenium	mg/kg	ND	48.2	45.8	41.7	37.2	87	81	75-125	11	20
Silver	mg/kg	ND	24.1	22.8	23.5	22.1	98	97	75-125	6	20
Sodium	mg/kg	38.6J	482	458	495	464	95	93	75-125	6	20
Thallium	mg/kg	ND	48.2	45.8	45.4	41.7	94	91	75-125	8	20
Vanadium	mg/kg	50.8	48.2	45.8	86.8	110	75	130	75-125	24	20
Zinc	mg/kg	84.8	48.2	45.8	114	112	60	61	75-125	1	20

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire

Pace Project No.: 92699552

QC Batch:	814862	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	8260D 5035A 5030B
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92699552001, 92699552002, 92699552003, 92699552004, 92699552005, 92699552006, 92699552007

METHOD BLANK: 4218595

Matrix: Solid

Associated Lab Samples: 92699552001, 92699552002, 92699552003, 92699552004, 92699552005, 92699552006, 92699552007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	1.9	11/21/23 12:43	
1,1,1-Trichloroethane	ug/kg	ND	5.0	2.6	11/21/23 12:43	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	1.3	11/21/23 12:43	
1,1,2-Trichloroethane	ug/kg	ND	5.0	1.7	11/21/23 12:43	
1,1-Dichloroethane	ug/kg	ND	5.0	2.1	11/21/23 12:43	
1,1-Dichloroethene	ug/kg	ND	5.0	2.1	11/21/23 12:43	
1,1-Dichloropropene	ug/kg	ND	5.0	2.4	11/21/23 12:43	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	4.0	11/21/23 12:43	
1,2,3-Trichloropropane	ug/kg	ND	5.0	2.5	11/21/23 12:43	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	4.2	11/21/23 12:43	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	3.0	11/21/23 12:43	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	1.9	11/21/23 12:43	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	2.2	11/21/23 12:43	
1,2-Dichlorobenzene	ug/kg	ND	5.0	1.8	11/21/23 12:43	
1,2-Dichloroethane	ug/kg	ND	5.0	3.3	11/21/23 12:43	
1,2-Dichloropropane	ug/kg	ND	5.0	1.5	11/21/23 12:43	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	1.7	11/21/23 12:43	
1,3-Dichlorobenzene	ug/kg	ND	5.0	1.6	11/21/23 12:43	
1,3-Dichloropropane	ug/kg	ND	5.0	1.6	11/21/23 12:43	
1,4-Dichlorobenzene	ug/kg	ND	5.0	1.3	11/21/23 12:43	
2,2-Dichloropropane	ug/kg	ND	5.0	3.8	11/21/23 12:43	
2-Butanone (MEK)	ug/kg	ND	100	24.0	11/21/23 12:43	
2-Chlorotoluene	ug/kg	ND	5.0	1.8	11/21/23 12:43	
2-Hexanone	ug/kg	ND	50.0	4.8	11/21/23 12:43	
4-Chlorotoluene	ug/kg	ND	5.0	2.8	11/21/23 12:43	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	4.8	11/21/23 12:43	
Acetone	ug/kg	ND	100	32.1	11/21/23 12:43	
Benzene	ug/kg	ND	5.0	2.0	11/21/23 12:43	
Bromobenzene	ug/kg	ND	5.0	1.6	11/21/23 12:43	
Bromochloromethane	ug/kg	ND	5.0	1.5	11/21/23 12:43	
Bromodichloromethane	ug/kg	ND	5.0	1.9	11/21/23 12:43	
Bromoform	ug/kg	ND	5.0	1.8	11/21/23 12:43	
Bromomethane	ug/kg	ND	20.0	15.5	11/21/23 12:43	
Carbon tetrachloride	ug/kg	ND	5.0	1.9	11/21/23 12:43	IK
Chlorobenzene	ug/kg	ND	5.0	2.9	11/21/23 12:43	
Chloroethane	ug/kg	ND	10.0	3.9	11/21/23 12:43	
Chloroform	ug/kg	ND	5.0	4.2	11/21/23 12:43	
Chloromethane	ug/kg	ND	10.0	4.2	11/21/23 12:43	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	1.7	11/21/23 12:43	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	1.4	11/21/23 12:43	

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire

Pace Project No.: 92699552

METHOD BLANK: 4218595

Matrix: Solid

Associated Lab Samples: 92699552001, 92699552002, 92699552003, 92699552004, 92699552005, 92699552006, 92699552007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	5.0	2.8	11/21/23 12:43	
Dibromomethane	ug/kg	ND	5.0	1.1	11/21/23 12:43	
Dichlorodifluoromethane	ug/kg	ND	10.0	5.1	11/21/23 12:43	v1
Diisopropyl ether	ug/kg	ND	5.0	1.4	11/21/23 12:43	
Ethylbenzene	ug/kg	ND	5.0	2.3	11/21/23 12:43	
Hexachloro-1,3-butadiene	ug/kg	ND	10.0	8.2	11/21/23 12:43	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	1.7	11/21/23 12:43	
m&p-Xylene	ug/kg	ND	10.0	3.4	11/21/23 12:43	
Methyl-tert-butyl ether	ug/kg	ND	5.0	1.9	11/21/23 12:43	
Methylene Chloride	ug/kg	ND	20.0	13.7	11/21/23 12:43	
n-Butylbenzene	ug/kg	ND	5.0	3.2	11/21/23 12:43	
n-Propylbenzene	ug/kg	ND	5.0	1.8	11/21/23 12:43	
Naphthalene	ug/kg	ND	5.0	2.6	11/21/23 12:43	
o-Xylene	ug/kg	ND	5.0	2.2	11/21/23 12:43	
p-Isopropyltoluene	ug/kg	ND	5.0	2.5	11/21/23 12:43	
sec-Butylbenzene	ug/kg	ND	5.0	2.2	11/21/23 12:43	
Styrene	ug/kg	ND	5.0	1.3	11/21/23 12:43	
tert-Butylbenzene	ug/kg	ND	5.0	1.8	11/21/23 12:43	v1
Tetrachloroethene	ug/kg	ND	5.0	1.6	11/21/23 12:43	
Toluene	ug/kg	ND	5.0	3.4	11/21/23 12:43	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	4.2	11/21/23 12:43	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	1.7	11/21/23 12:43	
Trichloroethene	ug/kg	ND	5.0	4.0	11/21/23 12:43	
Trichlorofluoromethane	ug/kg	ND	5.0	2.8	11/21/23 12:43	v1
Vinyl acetate	ug/kg	ND	50.0	10.3	11/21/23 12:43	
Vinyl chloride	ug/kg	ND	10.0	2.5	11/21/23 12:43	
Xylene (Total)	ug/kg	ND	10.0	2.8	11/21/23 12:43	
1,2-Dichloroethane-d4 (S)	%	104	70-130		11/21/23 12:43	
4-Bromofluorobenzene (S)	%	101	70-130		11/21/23 12:43	
Toluene-d8 (S)	%	100	70-130		11/21/23 12:43	

LABORATORY CONTROL SAMPLE: 4218596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	500	561	112	70-130	
1,1,1-Trichloroethane	ug/kg	500	556	111	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	500	519	104	70-130	
1,1,2-Trichloroethane	ug/kg	500	526	105	70-130	
1,1-Dichloroethane	ug/kg	500	529	106	70-130	
1,1-Dichloroethene	ug/kg	500	586	117	70-132	
1,1-Dichloropropene	ug/kg	500	577	115	70-130	
1,2,3-Trichlorobenzene	ug/kg	500	527	105	62-136	
1,2,3-Trichloropropane	ug/kg	500	493	99	70-130	
1,2,4-Trichlorobenzene	ug/kg	500	552	110	70-130	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire

Pace Project No.: 92699552

LABORATORY CONTROL SAMPLE: 4218596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	500	558	112	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	500	502	100	65-130	
1,2-Dibromoethane (EDB)	ug/kg	500	534	107	70-130	
1,2-Dichlorobenzene	ug/kg	500	537	107	70-130	
1,2-Dichloroethane	ug/kg	500	513	103	70-130	
1,2-Dichloropropane	ug/kg	500	518	104	70-130	
1,3,5-Trimethylbenzene	ug/kg	500	570	114	70-130	
1,3-Dichlorobenzene	ug/kg	500	553	111	70-130	
1,3-Dichloropropane	ug/kg	500	496	99	70-130	
1,4-Dichlorobenzene	ug/kg	500	546	109	70-130	
2,2-Dichloropropane	ug/kg	500	524	105	60-130	
2-Butanone (MEK)	ug/kg	1000	918	92	66-130	
2-Chlorotoluene	ug/kg	500	546	109	70-130	
2-Hexanone	ug/kg	1000	957	96	68-130	
4-Chlorotoluene	ug/kg	500	557	111	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	1000	948	95	70-130	
Acetone	ug/kg	1000	938	94	60-130	
Benzene	ug/kg	500	530	106	70-130	
Bromobenzene	ug/kg	500	556	111	70-130	
Bromochloromethane	ug/kg	500	558	112	70-130	
Bromodichloromethane	ug/kg	500	521	104	70-130	
Bromoform	ug/kg	500	532	106	70-130	
Bromomethane	ug/kg	500	538	108	43-175	
Carbon tetrachloride	ug/kg	500	591	118	70-130	IK
Chlorobenzene	ug/kg	500	534	107	70-130	
Chloroethane	ug/kg	500	545	109	70-145	
Chloroform	ug/kg	500	527	105	70-130	
Chloromethane	ug/kg	500	565	113	66-146	
cis-1,2-Dichloroethene	ug/kg	500	527	105	70-130	
cis-1,3-Dichloropropene	ug/kg	500	509	102	70-130	
Dibromochloromethane	ug/kg	500	536	107	70-130	
Dibromomethane	ug/kg	500	553	111	70-130	
Dichlorodifluoromethane	ug/kg	500	626	125	42-197	v1
Diisopropyl ether	ug/kg	500	489	98	68-130	
Ethylbenzene	ug/kg	500	503	101	70-130	
Hexachloro-1,3-butadiene	ug/kg	500	550	110	70-130	
Isopropylbenzene (Cumene)	ug/kg	500	564	113	70-130	
m&p-Xylene	ug/kg	1000	1100	110	70-130	
Methyl-tert-butyl ether	ug/kg	500	487	97	70-130	
Methylene Chloride	ug/kg	500	481	96	65-130	
n-Butylbenzene	ug/kg	500	570	114	70-130	
n-Propylbenzene	ug/kg	500	559	112	70-130	
Naphthalene	ug/kg	500	564	113	65-135	
o-Xylene	ug/kg	500	558	112	70-130	
p-Isopropyltoluene	ug/kg	500	583	117	70-130	
sec-Butylbenzene	ug/kg	500	564	113	70-130	
Styrene	ug/kg	500	560	112	70-130	

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire

Pace Project No.: 92699552

LABORATORY CONTROL SAMPLE: 4218596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	500	607	121	70-130	v1
Tetrachloroethene	ug/kg	500	562	112	70-130	
Toluene	ug/kg	500	530	106	70-130	
trans-1,2-Dichloroethene	ug/kg	500	550	110	70-130	
trans-1,3-Dichloropropene	ug/kg	500	485	97	70-130	
Trichloroethene	ug/kg	500	569	114	70-130	
Trichlorofluoromethane	ug/kg	500	633	127	62-140	v1
Vinyl acetate	ug/kg	1000	990	99	70-140	
Vinyl chloride	ug/kg	500	501	100	70-152	
Xylene (Total)	ug/kg	1500	1650	110	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 4218597 4218598

Parameter	Units	92699552004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	355	355	418	483	118	136	22-166	14	30	
1,1,1-Trichloroethane	ug/kg	ND	355	355	413	490	116	138	23-172	17	30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	355	355	394	454	111	128	21-158	14	30	
1,1,2-Trichloroethane	ug/kg	ND	355	355	391	476	110	134	25-160	19	30	
1,1-Dichloroethane	ug/kg	ND	355	355	398	468	112	132	22-166	16	30	
1,1-Dichloroethene	ug/kg	ND	355	355	428	499	120	141	18-183	15	30	
1,1-Dichloropropene	ug/kg	ND	355	355	433	511	122	144	20-181	16	30	
1,2,3-Trichlorobenzene	ug/kg	ND	355	355	217	324	61	91	10-161	40	30	R1
1,2,3-Trichloropropane	ug/kg	ND	355	355	368	431	104	121	21-147	16	30	
1,2,4-Trichlorobenzene	ug/kg	ND	355	355	332	431	94	121	10-159	26	30	
1,2,4-Trimethylbenzene	ug/kg	ND	355	355	420	490	118	138	17-170	15	30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	355	355	319	408	90	115	10-135	24	30	
1,2-Dibromoethane (EDB)	ug/kg	ND	355	355	399	462	112	130	30-154	15	30	
1,2-Dichlorobenzene	ug/kg	ND	355	355	392	468	110	132	26-162	18	30	
1,2-Dichloroethane	ug/kg	ND	355	355	380	461	107	130	23-161	19	30	
1,2-Dichloropropane	ug/kg	ND	355	355	394	474	111	133	29-165	18	30	
1,3,5-Trimethylbenzene	ug/kg	ND	355	355	416	494	117	139	20-172	17	30	
1,3-Dichlorobenzene	ug/kg	ND	355	355	399	463	112	130	22-164	15	30	
1,3-Dichloropropane	ug/kg	ND	355	355	380	442	107	124	27-156	15	30	
1,4-Dichlorobenzene	ug/kg	ND	355	355	392	462	110	130	20-161	16	30	
2,2-Dichloropropane	ug/kg	ND	355	355	385	457	109	129	10-159	17	30	
2-Butanone (MEK)	ug/kg	ND	710	710	498	796	70	112	13-143	46	30	R1
2-Chlorotoluene	ug/kg	ND	355	355	402	477	113	134	21-166	17	30	
2-Hexanone	ug/kg	ND	710	710	680	816	96	115	19-145	18	30	
4-Chlorotoluene	ug/kg	ND	355	355	399	475	112	134	19-163	17	30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	710	710	715	873	101	123	21-151	20	30	

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire

Pace Project No.: 92699552

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4218597 4218598											
Parameter	Units	92699552004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Acetone	ug/kg	ND	710	710	530	641	75	90	10-133	19	30
Benzene	ug/kg	3.9	355	355	402	479	112	134	29-156	18	30
Bromobenzene	ug/kg	ND	355	355	395	470	111	132	25-161	17	30
Bromochloromethane	ug/kg	ND	355	355	399	467	112	132	27-158	16	30
Bromodichloromethane	ug/kg	ND	355	355	394	475	111	134	23-158	19	30
Bromoform	ug/kg	ND	355	355	395	466	111	131	19-152	17	30
Bromomethane	ug/kg	ND	355	355	252	308	71	87	10-152	20	30
Carbon tetrachloride	ug/kg	ND	355	355	87.3	105	25	30	18-172	18	30 IK
Chlorobenzene	ug/kg	ND	355	355	399	461	112	130	26-166	14	30
Chloroethane	ug/kg	ND	355	355	170	203	48	57	10-130	18	30
Chloroform	ug/kg	ND	355	355	390	465	110	131	25-161	17	30
Chloromethane	ug/kg	ND	355	355	460	540	130	152	27-197	16	30
cis-1,2-Dichloroethene	ug/kg	ND	355	355	391	463	110	130	28-165	17	30
cis-1,3-Dichloropropene	ug/kg	ND	355	355	385	458	108	129	23-159	17	30
Dibromochloromethane	ug/kg	ND	355	355	398	462	112	130	21-151	15	30
Dibromomethane	ug/kg	ND	355	355	402	490	113	138	38-158	20	30
Dichlorodifluoromethane	ug/kg	ND	355	355	487	565	137	159	10-200	15	30 v1
Diisopropyl ether	ug/kg	ND	355	355	369	438	104	123	23-160	17	30
Ethylbenzene	ug/kg	3.3J	355	355	386	439	108	123	22-163	13	30
Hexachloro-1,3-butadiene	ug/kg	ND	355	355	409	515	115	145	10-192	23	30
Isopropylbenzene (Cumene)	ug/kg	ND	355	355	435	496	123	140	24-173	13	30
m&p-Xylene	ug/kg	3.5J	710	710	826	949	116	133	22-171	14	30
Methyl-tert-butyl ether	ug/kg	ND	355	355	346	418	97	118	25-153	19	30
Methylene Chloride	ug/kg	ND	355	355	374	439	105	124	10-165	16	30
n-Butylbenzene	ug/kg	ND	355	355	426	502	120	141	10-186	16	30
n-Propylbenzene	ug/kg	ND	355	355	410	480	115	135	16-171	16	30
Naphthalene	ug/kg	3.1J	355	355	259	370	72	103	10-159	35	30 R1
o-Xylene	ug/kg	ND	355	355	420	484	118	136	23-171	14	30
p-Isopropyltoluene	ug/kg	ND	355	355	430	507	121	143	13-184	16	30
sec-Butylbenzene	ug/kg	ND	355	355	428	502	121	141	16-182	16	30
Styrene	ug/kg	ND	355	355	419	486	118	137	25-169	15	30
tert-Butylbenzene	ug/kg	ND	355	355	342	407	96	115	20-174	17	30 v1
Tetrachloroethene	ug/kg	1.8J	355	355	401	448	112	126	14-171	11	30
Toluene	ug/kg	5.2	355	355	402	483	112	135	24-166	18	30
trans-1,2-Dichloroethene	ug/kg	ND	355	355	400	474	113	134	24-170	17	30
trans-1,3-Dichloropropene	ug/kg	ND	355	355	367	443	103	125	22-157	19	30
Trichloroethene	ug/kg	ND	355	355	424	503	119	142	23-176	17	30
Trichlorofluoromethane	ug/kg	ND	355	355	237	257	67	73	10-138	8	30 v1
Vinyl acetate	ug/kg	ND	710	710	725	854	102	120	11-166	16	30
Vinyl chloride	ug/kg	ND	355	355	465	547	131	154	21-200	16	30
Xylene (Total)	ug/kg	3.5J	1060	1060	1250	1430	117	134	23-170	14	30
1,2-Dichloroethane-d4 (S)	%						99	99	70-130		
4-Bromofluorobenzene (S)	%						103	99	70-130		
Toluene-d8 (S)	%						100	100	70-130		

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire  
Pace Project No.: 92699552

QC Batch: 814703 Analysis Method: EPA 8082A  
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92699552001, 92699552002, 92699552003, 92699552004, 92699552005, 92699552006

METHOD BLANK: 4217691 Matrix: Solid  
Associated Lab Samples: 92699552001, 92699552002, 92699552003, 92699552004, 92699552005, 92699552006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.4	13.3	11/21/23 16:20	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.4	22.5	11/21/23 16:20	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.4	14.9	11/21/23 16:20	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.4	8.1	11/21/23 16:20	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.4	9.0	11/21/23 16:20	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.4	14.7	11/21/23 16:20	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.4	14.8	11/21/23 16:20	
Decachlorobiphenyl (S)	%	105	10-174		11/21/23 16:20	

LABORATORY CONTROL SAMPLE: 4217692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	144	86	36-130	
PCB-1260 (Aroclor 1260)	ug/kg	167	134	80	38-133	
Decachlorobiphenyl (S)	%			96	10-174	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4217693 4217694

Parameter	Units	92699552004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	ND	197	201	168	138	85	68	10-144	20	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	197	201	159	127	81	63	10-141	23	30	
Decachlorobiphenyl (S)	%						85	66	10-174			

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire  
Pace Project No.: 92699552

QC Batch:	814702	Analysis Method:	EPA 8270E
QC Batch Method:	EPA 3546	Analysis Description:	8270E Solid MSSV Microwave
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92699552001, 92699552002, 92699552003, 92699552004, 92699552005, 92699552006, 92699552007

METHOD BLANK:	4217678	Matrix:	Solid
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Associated Lab Samples: 92699552001, 92699552002, 92699552003, 92699552004, 92699552005, 92699552006, 92699552007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	328	129	11/21/23 12:34	
1,2-Dichlorobenzene	ug/kg	ND	328	118	11/21/23 12:34	
1,3-Dichlorobenzene	ug/kg	ND	328	116	11/21/23 12:34	
1,4-Dichlorobenzene	ug/kg	ND	328	125	11/21/23 12:34	
1-Methylnaphthalene	ug/kg	ND	328	115	11/21/23 12:34	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	328	156	11/21/23 12:34	
2,4,5-Trichlorophenol	ug/kg	ND	328	150	11/21/23 12:34	
2,4,6-Trichlorophenol	ug/kg	ND	328	135	11/21/23 12:34	
2,4-Dichlorophenol	ug/kg	ND	328	128	11/21/23 12:34	
2,4-Dimethylphenol	ug/kg	ND	328	136	11/21/23 12:34	
2,4-Dinitrophenol	ug/kg	ND	1640	1010	11/21/23 12:34	v1
2,4-Dinitrotoluene	ug/kg	ND	328	126	11/21/23 12:34	
2,6-Dinitrotoluene	ug/kg	ND	328	120	11/21/23 12:34	
2-Chloronaphthalene	ug/kg	ND	328	130	11/21/23 12:34	
2-Chlorophenol	ug/kg	ND	328	123	11/21/23 12:34	
2-Methylnaphthalene	ug/kg	ND	328	131	11/21/23 12:34	
2-Methylphenol(o-Cresol)	ug/kg	ND	328	134	11/21/23 12:34	
2-Nitroaniline	ug/kg	ND	1640	268	11/21/23 12:34	
2-Nitrophenol	ug/kg	ND	328	142	11/21/23 12:34	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	328	132	11/21/23 12:34	
3,3'-Dichlorobenzidine	ug/kg	ND	656	222	11/21/23 12:34	
3-Nitroaniline	ug/kg	ND	1640	257	11/21/23 12:34	
4,6-Dinitro-2-methylphenol	ug/kg	ND	656	306	11/21/23 12:34	v1
4-Bromophenylphenyl ether	ug/kg	ND	328	126	11/21/23 12:34	
4-Chloro-3-methylphenol	ug/kg	ND	656	230	11/21/23 12:34	
4-Chloroaniline	ug/kg	ND	656	257	11/21/23 12:34	
4-Chlorophenylphenyl ether	ug/kg	ND	328	122	11/21/23 12:34	
4-Nitroaniline	ug/kg	ND	656	249	11/21/23 12:34	
4-Nitrophenol	ug/kg	ND	1640	634	11/21/23 12:34	
Acenaphthene	ug/kg	ND	328	115	11/21/23 12:34	
Acenaphthylene	ug/kg	ND	328	115	11/21/23 12:34	
Aniline	ug/kg	ND	328	128	11/21/23 12:34	
Anthracene	ug/kg	ND	328	107	11/21/23 12:34	
Benzo(a)anthracene	ug/kg	ND	328	109	11/21/23 12:34	
Benzo(a)pyrene	ug/kg	ND	328	113	11/21/23 12:34	
Benzo(b)fluoranthene	ug/kg	ND	328	109	11/21/23 12:34	
Benzo(g,h,i)perylene	ug/kg	ND	328	127	11/21/23 12:34	
Benzo(k)fluoranthene	ug/kg	ND	328	115	11/21/23 12:34	
Benzoic Acid	ug/kg	ND	1640	704	11/21/23 12:34	v1
Benzyl alcohol	ug/kg	ND	656	248	11/21/23 12:34	

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire

Pace Project No.: 92699552

METHOD BLANK: 4217678

Matrix: Solid

Associated Lab Samples: 92699552001, 92699552002, 92699552003, 92699552004, 92699552005, 92699552006, 92699552007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/kg	ND	328	136	11/21/23 12:34	
bis(2-Chloroethyl) ether	ug/kg	ND	328	123	11/21/23 12:34	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	328	127	11/21/23 12:34	
Butylbenzylphthalate	ug/kg	ND	328	138	11/21/23 12:34	
Chrysene	ug/kg	ND	328	119	11/21/23 12:34	
Di-n-butylphthalate	ug/kg	ND	328	110	11/21/23 12:34	
Di-n-octylphthalate	ug/kg	ND	328	129	11/21/23 12:34	
Dibenz(a,h)anthracene	ug/kg	ND	328	126	11/21/23 12:34	
Dibenzofuran	ug/kg	ND	328	118	11/21/23 12:34	
Diethylphthalate	ug/kg	ND	328	120	11/21/23 12:34	
Dimethylphthalate	ug/kg	ND	328	119	11/21/23 12:34	
Fluoranthene	ug/kg	ND	328	112	11/21/23 12:34	
Fluorene	ug/kg	ND	328	115	11/21/23 12:34	
Hexachloro-1,3-butadiene	ug/kg	ND	328	142	11/21/23 12:34	
Hexachlorobenzene	ug/kg	ND	328	128	11/21/23 12:34	
Hexachlorocyclopentadiene	ug/kg	ND	328	188	11/21/23 12:34	
Hexachloroethane	ug/kg	ND	328	125	11/21/23 12:34	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	328	129	11/21/23 12:34	
Isophorone	ug/kg	ND	328	146	11/21/23 12:34	
N-Nitroso-di-n-propylamine	ug/kg	ND	328	123	11/21/23 12:34	
N-Nitrosodimethylamine	ug/kg	ND	328	110	11/21/23 12:34	
N-Nitrosodiphenylamine	ug/kg	ND	328	116	11/21/23 12:34	
Naphthalene	ug/kg	ND	328	111	11/21/23 12:34	
Nitrobenzene	ug/kg	ND	328	152	11/21/23 12:34	
Pentachlorophenol	ug/kg	ND	656	321	11/21/23 12:34	
Phenanthrene	ug/kg	ND	328	107	11/21/23 12:34	
Phenol	ug/kg	ND	328	146	11/21/23 12:34	
Pyrene	ug/kg	ND	328	133	11/21/23 12:34	
Pyridine	ug/kg	ND	328	103	11/21/23 12:34	
2,4,6-Tribromophenol (S)	%	69	10-130		11/21/23 12:34	
2-Fluorobiphenyl (S)	%	63	10-130		11/21/23 12:34	
2-Fluorophenol (S)	%	64	10-130		11/21/23 12:34	
Nitrobenzene-d5 (S)	%	66	10-130		11/21/23 12:34	
Phenol-d6 (S)	%	64	10-130		11/21/23 12:34	
Terphenyl-d14 (S)	%	69	10-130		11/21/23 12:34	

LABORATORY CONTROL SAMPLE: 4217679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1690	1050	62	40-130	
1,2-Dichlorobenzene	ug/kg	1690	1060	62	37-130	
1,3-Dichlorobenzene	ug/kg	1690	1050	62	36-130	
1,4-Dichlorobenzene	ug/kg	1690	1060	62	36-130	
1-Methylnaphthalene	ug/kg	1690	1100	65	46-130	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire  
Pace Project No.: 92699552

LABORATORY CONTROL SAMPLE: 4217679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2'-Oxybis(1-chloropropane)	ug/kg	1690	1030	61	12-130	
2,4,5-Trichlorophenol	ug/kg	1690	1120	66	49-130	
2,4,6-Trichlorophenol	ug/kg	1690	1080	64	48-130	
2,4-Dichlorophenol	ug/kg	1690	1080	63	45-130	
2,4-Dimethylphenol	ug/kg	1690	1130	67	45-130	
2,4-Dinitrophenol	ug/kg	8470	6040	71	23-130 v1	
2,4-Dinitrotoluene	ug/kg	1690	1160	69	50-130	
2,6-Dinitrotoluene	ug/kg	1690	1140	67	53-130	
2-Chloronaphthalene	ug/kg	1690	1020	60	46-130	
2-Chlorophenol	ug/kg	1690	1160	69	39-130	
2-Methylnaphthalene	ug/kg	1690	1120	66	45-130	
2-Methylphenol(o-Cresol)	ug/kg	1690	1100	65	38-130	
2-Nitroaniline	ug/kg	3390	2250	66	43-130	
2-Nitrophenol	ug/kg	1690	1180	70	43-130	
3&4-Methylphenol(m&p Cresol)	ug/kg	1690	1090	65	34-130	
3,3'-Dichlorobenzidine	ug/kg	3390	2390	70	68-130	
3-Nitroaniline	ug/kg	3390	2170	64	36-130	
4,6-Dinitro-2-methylphenol	ug/kg	3390	2680	79	38-130 v1	
4-Bromophenylphenyl ether	ug/kg	1690	1210	71	52-130	
4-Chloro-3-methylphenol	ug/kg	3390	2260	67	45-130	
4-Chloroaniline	ug/kg	3390	2210	65	41-130	
4-Chlorophenylphenyl ether	ug/kg	1690	1150	68	46-130	
4-Nitroaniline	ug/kg	3390	2400	71	40-130	
4-Nitrophenol	ug/kg	8470	5350	63	34-130	
Acenaphthene	ug/kg	1690	1090	64	47-130	
Acenaphthylene	ug/kg	1690	1120	66	50-130	
Aniline	ug/kg	1690	1070	63	33-130	
Anthracene	ug/kg	1690	1190	70	46-130	
Benzo(a)anthracene	ug/kg	1690	1260	74	49-130	
Benzo(a)pyrene	ug/kg	1690	1120	66	45-130	
Benzo(b)fluoranthene	ug/kg	1690	1080	64	45-130	
Benzo(g,h,i)perylene	ug/kg	1690	1200	71	44-130	
Benzo(k)fluoranthene	ug/kg	1690	1080	64	46-130	
Benzoic Acid	ug/kg	8470	4960	59	14-130 v1	
Benzyl alcohol	ug/kg	3390	2170	64	39-130	
bis(2-Chloroethoxy)methane	ug/kg	1690	1100	65	41-130	
bis(2-Chloroethyl) ether	ug/kg	1690	1080	63	34-130	
bis(2-Ethylhexyl)phthalate	ug/kg	1690	1250	73	39-130	
Butylbenzylphthalate	ug/kg	1690	1230	72	48-130	
Chrysene	ug/kg	1690	1270	75	50-130	
Di-n-butylphthalate	ug/kg	1690	1220	72	46-130	
Di-n-octylphthalate	ug/kg	1690	1320	78	49-130	
Dibenz(a,h)anthracene	ug/kg	1690	1200	71	46-130	
Dibenzofuran	ug/kg	1690	1110	65	49-130	
Diethylphthalate	ug/kg	1690	1160	69	49-130	
Dimethylphthalate	ug/kg	1690	1150	68	50-130	
Fluoranthene	ug/kg	1690	1250	74	49-130	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire  
Pace Project No.: 92699552

LABORATORY CONTROL SAMPLE: 4217679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/kg	1690	1150	68	47-130	
Hexachloro-1,3-butadiene	ug/kg	1690	1060	63	36-130	
Hexachlorobenzene	ug/kg	1690	1190	70	52-130	
Hexachlorocyclopentadiene	ug/kg	1690	965	57	10-130	
Hexachloroethane	ug/kg	1690	1030	61	36-130	
Indeno(1,2,3-cd)pyrene	ug/kg	1690	1160	69	44-130	
Isophorone	ug/kg	1690	1090	64	40-130	
N-Nitroso-di-n-propylamine	ug/kg	1690	1090	64	34-130	
N-Nitrosodimethylamine	ug/kg	1690	1080	63	29-130	
N-Nitrosodiphenylamine	ug/kg	1690	1180	70	47-130	
Naphthalene	ug/kg	1690	1110	65	43-130	
Nitrobenzene	ug/kg	1690	1050	62	41-130	
Pentachlorophenol	ug/kg	3390	2230	66	35-130	
Phenanthrene	ug/kg	1690	1220	72	50-130	
Phenol	ug/kg	1690	1100	65	39-130	
Pyrene	ug/kg	1690	1210	71	51-130	
Pyridine	ug/kg	1690	952	56	21-130	
2,4,6-Tribromophenol (S)	%			73	10-130	
2-Fluorobiphenyl (S)	%			60	10-130	
2-Fluorophenol (S)	%			63	10-130	
Nitrobenzene-d5 (S)	%			62	10-130	
Phenol-d6 (S)	%			63	10-130	
Terphenyl-d14 (S)	%			68	10-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4217680 4217681

Parameter	Units	92699552004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trichlorobenzene	ug/kg	ND	1990	1960	1040	908	52	46	22-130	13	30	
1,2-Dichlorobenzene	ug/kg	ND	1990	1960	1040	929	52	47	22-130	11	30	
1,3-Dichlorobenzene	ug/kg	ND	1990	1960	1030	913	51	47	22-130	12	30	
1,4-Dichlorobenzene	ug/kg	ND	1990	1960	1040	922	52	47	21-130	12	30	
1-Methylnaphthalene	ug/kg	ND	1990	1960	1170	1010	58	52	27-130	14	30	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	1990	1960	1050	953	53	49	10-130	10	30	
2,4,5-Trichlorophenol	ug/kg	ND	1990	1960	1090	1030	54	52	18-130	6	30	
2,4,6-Trichlorophenol	ug/kg	ND	1990	1960	1070	1020	53	52	17-130	4	30	
2,4-Dichlorophenol	ug/kg	ND	1990	1960	1140	1100	57	56	19-130	3	30	
2,4-Dimethylphenol	ug/kg	ND	1990	1960	1190	1050	59	54	17-130	12	30	
2,4-Dinitrophenol	ug/kg	ND	9990	9790	ND	ND	11	12	10-130		30	v1
2,4-Dinitrotoluene	ug/kg	ND	1990	1960	1110	1010	55	52	31-130	9	30	
2,6-Dinitrotoluene	ug/kg	ND	1990	1960	1090	999	54	51	33-130	9	30	
2-Chloronaphthalene	ug/kg	ND	1990	1960	973	852	49	44	26-130	13	30	
2-Chlorophenol	ug/kg	ND	1990	1960	1180	1170	59	60	19-130	1	30	
2-Methylnaphthalene	ug/kg	ND	1990	1960	1150	1000	58	51	26-130	14	30	

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire

Pace Project No.: 92699552

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4217680 4217681											
Parameter	Units	92699552004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
2-Methylphenol(o-Cresol)	ug/kg	ND	1990	1960	1170	1170	58	60	19-130	1	30
2-Nitroaniline	ug/kg	ND	4000	3920	2140	2090	54	53	29-130	2	30
2-Nitrophenol	ug/kg	ND	1990	1960	1190	1130	60	58	16-130	6	30
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	1990	1960	1180	1190	59	61	14-130	1	30
3,3'-Dichlorobenzidine	ug/kg	ND	4000	3920	2170	1850	54	47	16-130	16	30
3-Nitroaniline	ug/kg	ND	4000	3920	2330	2320	58	59	28-130	1	30
4,6-Dinitro-2-methylphenol	ug/kg	ND	4000	3920	1050	995	26	25	10-131	5	30 v1
4-Bromophenylphenyl ether	ug/kg	ND	1990	1960	1110	961	55	49	32-130	14	30
4-Chloro-3-methylphenol	ug/kg	ND	4000	3920	2380	2320	59	59	26-130	2	30
4-Chloroaniline	ug/kg	ND	4000	3920	2360	2260	59	58	19-130	5	30
4-Chlorophenylphenyl ether	ug/kg	ND	1990	1960	1090	948	55	48	29-130	14	30
4-Nitroaniline	ug/kg	ND	4000	3920	2360	2450	59	63	22-130	4	30
4-Nitrophenol	ug/kg	ND	9990	9790	4880	5110	49	52	10-130	4	30
Acenaphthene	ug/kg	ND	1990	1960	1060	925	53	47	29-130	14	30
Acenaphthylene	ug/kg	ND	1990	1960	1090	948	55	48	27-130	14	30
Aniline	ug/kg	ND	1990	1960	1110	1030	56	53	10-130	7	30
Anthracene	ug/kg	ND	1990	1960	1120	969	56	49	26-130	15	30
Benzo(a)anthracene	ug/kg	ND	1990	1960	1300	1040	65	53	31-130	21	30
Benzo(a)pyrene	ug/kg	ND	1990	1960	1110	898	56	46	24-130	21	30
Benzo(b)fluoranthene	ug/kg	ND	1990	1960	1130	916	57	47	12-137	21	30
Benzo(g,h,i)perylene	ug/kg	ND	1990	1960	1090	864	55	44	16-130	23	30
Benzo(k)fluoranthene	ug/kg	ND	1990	1960	1060	892	53	46	27-130	17	30
Benzoic Acid	ug/kg	ND	9990	9790	1600J	896J	16	9	10-130		30 M1,v1
Benzyl alcohol	ug/kg	ND	4000	3920	2240	2350	56	60	25-130	5	30
bis(2-Chloroethoxy)methane	ug/kg	ND	1990	1960	1100	1010	55	51	26-130	9	30
bis(2-Chloroethyl) ether	ug/kg	ND	1990	1960	1110	1050	56	54	23-130	6	30
bis(2-Ethylhexyl)phthalate	ug/kg	ND	1990	1960	1320	1200	66	61	20-130	10	30
Butylbenzylphthalate	ug/kg	ND	1990	1960	1310	1180	65	60	28-130	10	30
Chrysene	ug/kg	ND	1990	1960	1270	1040	64	53	29-130	20	30
Di-n-butylphthalate	ug/kg	ND	1990	1960	1150	1000	57	51	29-130	13	30
Di-n-octylphthalate	ug/kg	ND	1990	1960	1280	1150	64	58	30-130	11	30
Dibenz(a,h)anthracene	ug/kg	ND	1990	1960	1030	894	52	46	27-130	14	30
Dibenzofuran	ug/kg	ND	1990	1960	1050	924	53	47	33-130	13	30
Diethylphthalate	ug/kg	ND	1990	1960	1100	976	55	50	34-130	12	30
Dimethylphthalate	ug/kg	ND	1990	1960	1070	990	54	51	35-130	8	30
Fluoranthene	ug/kg	ND	1990	1960	1270	1060	60	51	26-130	18	30
Fluorene	ug/kg	ND	1990	1960	1110	969	55	49	27-130	13	30
Hexachloro-1,3-butadiene	ug/kg	ND	1990	1960	1040	873	52	45	19-130	17	30
Hexachlorobenzene	ug/kg	ND	1990	1960	1080	958	54	49	31-130	12	30
Hexachlorocyclopentadiene	ug/kg	ND	1990	1960	566	389	28	20	10-130	37	30 R1
Hexachloroethane	ug/kg	ND	1990	1960	950	836	48	43	21-130	13	30
Indeno(1,2,3-cd)pyrene	ug/kg	ND	1990	1960	1060	864	53	44	16-130	20	30
Isophorone	ug/kg	ND	1990	1960	1100	1030	55	53	29-130	6	30
N-Nitroso-di-n-propylamine	ug/kg	ND	1990	1960	1150	1100	58	56	22-130	5	30

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire

Pace Project No.: 92699552

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4217680				4217681								
Parameter	Units	92699552004	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
N-Nitrosodimethylamine	ug/kg	ND	1990	1960	1010	1070	51	55	15-130	6	30	
N-Nitrosodiphenylamine	ug/kg	ND	1990	1960	1100	954	55	49	30-130	14	30	
Naphthalene	ug/kg	ND	1990	1960	1100	964	55	49	24-130	13	30	
Nitrobenzene	ug/kg	ND	1990	1960	1060	972	53	50	25-130	9	30	
Pentachlorophenol	ug/kg	ND	4000	3920	1960	1950	49	50	10-130	0	30	
Phenanthrene	ug/kg	ND	1990	1960	1280	1030	64	53	28-130	22	30	
Phenol	ug/kg	ND	1990	1960	1130	1190	57	61	18-130	5	30	
Pyrene	ug/kg	ND	1990	1960	1550	1210	74	58	27-130	24	30	
Pyridine	ug/kg	ND	1990	1960	960	949	48	48	10-130	1	30	
2,4,6-Tribromophenol (S)	%						44	47	10-130			
2-Fluorobiphenyl (S)	%						28	33	10-130			
2-Fluorophenol (S)	%						45	52	10-130			
Nitrobenzene-d5 (S)	%						43	47	10-130			
Phenol-d6 (S)	%						47	57	10-130			
Terphenyl-d14 (S)	%						36	47	10-130			

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## QUALITY CONTROL DATA

Project: Parker Street Mill Fire

Pace Project No.: 92699552

QC Batch: 814565

Analysis Method: SW-846

QC Batch Method: SW-846

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92699552001, 92699552002, 92699552003, 92699552004, 92699552005, 92699552006, 92699552007

SAMPLE DUPLICATE: 4217175

Parameter	Units	92699292001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.8	17.2	3	25	N2

SAMPLE DUPLICATE: 4218361

Parameter	Units	92699494001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	24.9	26.6	7	25	N2

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## QUALIFIERS

Project: Parker Street Mill Fire  
Pace Project No.: 92699552

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

IK	The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.
u8	Data does not meet all conditions for compliance monitoring due to use of soil jars.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Parker Street Mill Fire

Pace Project No.: 92699552

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92699552001	PSMF-LOC2-111723	EPA 3546	814703	EPA 8082A	815001
92699552002	PSMF-LOC1-111723	EPA 3546	814703	EPA 8082A	815001
92699552003	PSMF-LOC1-111723-DUP	EPA 3546	814703	EPA 8082A	815001
92699552004	PSMF-LOC3-111723	EPA 3546	814703	EPA 8082A	815001
92699552005	PSMF-BACK-111723	EPA 3546	814703	EPA 8082A	815001
92699552006	PSMF-BACK-111723-DUP	EPA 3546	814703	EPA 8082A	815001
92699552001	PSMF-LOC2-111723	EPA 3050B	814719	EPA 6010D	814835
92699552002	PSMF-LOC1-111723	EPA 3050B	814719	EPA 6010D	814835
92699552003	PSMF-LOC1-111723-DUP	EPA 3050B	814978	EPA 6010D	814990
92699552004	PSMF-LOC3-111723	EPA 3050B	814719	EPA 6010D	814835
92699552005	PSMF-BACK-111723	EPA 3050B	814719	EPA 6010D	814835
92699552006	PSMF-BACK-111723-DUP	EPA 3050B	814719	EPA 6010D	814835
92699552001	PSMF-LOC2-111723	EPA 7471B	814757	EPA 7471B	814777
92699552002	PSMF-LOC1-111723	EPA 7471B	814757	EPA 7471B	814777
92699552003	PSMF-LOC1-111723-DUP	EPA 7471B	815284	EPA 7471B	815285
92699552004	PSMF-LOC3-111723	EPA 7471B	814757	EPA 7471B	814777
92699552005	PSMF-BACK-111723	EPA 7471B	814757	EPA 7471B	814777
92699552006	PSMF-BACK-111723-DUP	EPA 7471B	814757	EPA 7471B	814777
92699552001	PSMF-LOC2-111723	EPA 3546	814702	EPA 8270E	814825
92699552002	PSMF-LOC1-111723	EPA 3546	814702	EPA 8270E	814825
92699552003	PSMF-LOC1-111723-DUP	EPA 3546	814702	EPA 8270E	814825
92699552004	PSMF-LOC3-111723	EPA 3546	814702	EPA 8270E	814825
92699552005	PSMF-BACK-111723	EPA 3546	814702	EPA 8270E	814825
92699552006	PSMF-BACK-111723-DUP	EPA 3546	814702	EPA 8270E	814825
92699552007	PSMF-TB-111723	EPA 3546	814702	EPA 8270E	814825
92699552001	PSMF-LOC2-111723	EPA 5035A/5030B	814862	EPA 8260D	814957
92699552002	PSMF-LOC1-111723	EPA 5035A/5030B	814862	EPA 8260D	814957
92699552003	PSMF-LOC1-111723-DUP	EPA 5035A/5030B	814862	EPA 8260D	814957
92699552004	PSMF-LOC3-111723	EPA 5035A/5030B	814862	EPA 8260D	814957
92699552005	PSMF-BACK-111723	EPA 5035A/5030B	814862	EPA 8260D	814957
92699552006	PSMF-BACK-111723-DUP	EPA 5035A/5030B	814862	EPA 8260D	814957
92699552007	PSMF-TB-111723	EPA 5035A/5030B	814862	EPA 8260D	814957
92699552001	PSMF-LOC2-111723	SW-846	814565		
92699552002	PSMF-LOC1-111723	SW-846	814565		
92699552003	PSMF-LOC1-111723-DUP	SW-846	814565		
92699552004	PSMF-LOC3-111723	SW-846	814565		
92699552005	PSMF-BACK-111723	SW-846	814565		
92699552006	PSMF-BACK-111723-DUP	SW-846	814565		
92699552007	PSMF-TB-111723	SW-846	814565		

## REPORT OF LABORATORY ANALYSIS

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page:   of		
Company:	TE Tetra Tech	Report To:	Jessica Vickers	Attention:				
Address:	1955 Evergreen Blvd Ste 300	Copy To:	Josiah Williams	Company Name:	TETRA TECH	REGULATORY AGENCY		
Duluth, GA	30090			Address:	1955 EVERGREEN BLVD	<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER	<input type="checkbox"/> DRINKING WATER
Email To:	Jessica.Vickers@tetra-tech.com	Purchase Order No.:		P.O. Order Ref:	200, 576 300 Duluth, GA	<input type="checkbox"/> UST	<input type="checkbox"/> RCRA	<input type="checkbox"/> OTHER
Phone:	678-775-3094	Fax:		Project Name:	Parker Street Mill Fire	Site Location		
Requested Due Date/TAT:	24 hrs	Project Number:	103X90320082073	P.O. Project Manager:		STATE:	NC	

[illegible]

TETRA T64		11/6/23	1237	SG	11/20/23	12:27
SAMPLER NAME AND SIGNATURE						
PRINT NAME OF SAMPLER:		Brandon Mangy's				
SIGNATURE OF SAMPLER:		[Signature]				
DATE Signed (MM/DD/YY):		11/17/23				
Temp in °C						
Received on Ice (Y/N)						
Custody Sealed Cooler (Y/N)						
Samples Intact (Y/N)						

MO#: 92699552



**9269135-2**



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

## Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐Sample Condition  
Upon Receipt

Client Name:

Project #:

WO#: 92699552

PM: ABP

Due Date: 11/22/23

CLIENT: 92-TETRA GA

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client  
☐ Commercial ☐ Pace ☐ Other:Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Date/Initials Person Examining Contents: 11-20-23 JCL

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen?

☐ Yes ☐ No ☒ N/A

Thermometer:

☒ IR Gun ID:

236

Type of Ice:

☒ Wet☐ Blue☐ None

Cooler Temp:

2.2

Correction Factor:

Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

2.2

USDA Regulated Soil ( ☐ N/A, water sample)Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	TAT 24hrs
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: SL			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Project

W0#: 92699552

PM: ABP

Due Date: 11/22/23

CLIENT: 92-TETRA GA

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	WGLU	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1									2																				
2									2																				
3									2																				
4									6																				
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7																													
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11																													
12																													

## pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.