

**Ambient Community Air Monitoring Weekly Report
For the Hawaii Department of Health – Clean Air Branch**

Lahaina, Maui

**1/25/2024 – 1/31/2024
[Report Updated: 7/2/2024]**

Due to ongoing debris removal operations in response to the Maui Wildfires, a Community Air Monitoring and Sampling Plan (CAMSP) has been drafted and sampling is being performed at four community locations across Lahaina listed below and shown on **Figure 1**:

- Leialii Hawaiian Homelands (AM-01)
- WW Pump Station #4 (AM-02)
- Lahaina Intermediate School (AM-03)
- Lahaina Boys & Girls Club (AM-04)

This approach includes ambient community air monitoring and sampling to monitor conditions and determine whether debris removal activities, managed by the U.S. Army Corps of Engineers (USACE), significantly impacts air quality in Lahaina. Data collected is made available to HDOH via online shared site and this weekly report. This approach to air monitoring and sampling will continue until debris removal activities are complete or until HDOH CAB advises otherwise.

Air quality monitoring for particulate matter was collected at all four community locations over a 24-hour period each day in accordance with the draft CAMSP. Additionally, daily air samples were collected at all community locations, as depicted in **Figure 1**. Summary analytical data is presented in **Tables 1 and 2**. **Appendix 1** provides detailed analytical results for all community locations where air sampling was performed. Analytical results were compared to site-specific screening levels for particulate matter, asbestos, and heavy metals as described in the draft CAMSP. A summary of meteorological data is presented in **Table 3**. Overall wind conditions for this week show approximately 1.7 mph in a generally SE direction.

Results for Community Locations:

Ambient air monitoring was performed to assess the presence of airborne particulates with a particle size diameter of 10 micrometers (μm), as this is the size that is recognized as being small enough to be inhaled into a person's lungs. This particle size diameter is recognized for health evaluations and is identified as "PM₁₀". Monitoring for PM₁₀ was conducted 24 hours a day, 7 days a week at each of the following locations: Leialii Hawaiian Homelands (January 25-31), WW Pump Station #4 (January 25-31), Lahaina Intermediate School (January 25-31), Lahaina Boys & Girls Club (January 25-31).

The PM₁₀ monitoring results were not found to have exceeded the screening level during this reporting period, as shown in **Table 2**.

Please note that ambient air monitoring for fine particulate matter, with a particle size diameter of 2.5 micrometers or less (PM_{2.5}) is not included in this report. This monitoring is being performed by the Department of Health/EPA at six locations in Lahaina and can be viewed at: <https://fire.airnow.gov/>.

There were 28 samples collected for asbestos fibers at community monitoring locations throughout this reporting period. Of the 28 samples collected, one was voided. The sample from WW Pump Station #4 on 1/29 was voided due to a damaged filter and was unable to be analyzed. All asbestos results were below the Site Screening Action Level (SSAL) of 0.003 fibers per cubic centimeter (fibers/cc) and less than the laboratory's analytical sensitivity (see Table 1). Notably, the laboratory commented "Numerous gypsum fibers present" on samples collected at the following monitoring stations:

- Leialii Hawaiian Homelands on January 25, 26, 27, 28, 29, 30, and 31

- WW Pump Station #4 on January 25, 26, 27, 28, 29, 30, and 31
- Lahaina Intermediate School on January 25, 26, 27, 28, 29, 30, and 31
- Lahaina Boys & Girls Club on January 25, 26, 27, 29, 30, and 31

Gypsum is a common ingredient in drywall, plaster and cement so its presence in the sample filters is likely due to debris removal operations or other disturbances of built-environment fire debris. The presence of gypsum fibers found in the samples were not sufficient to obscure asbestos analysis; nor are they indicative of a health and safety concern. Occupational health exposure thresholds (National Institute for Occupational Safety and Health [NIOSH] and OSHA) for gypsum are 5 milligrams per cubic meter (mg/m³) for respirable dust, and 10 mg/m³ and 15 mg/m³ respectively for total dust as time-weighted averages. While total dust sampling has not been conducted, the size-discriminated particulate sampling (PM₁₀) at these locations indicates these thresholds are not being approached and are orders of magnitude less than occupational gypsum exposure criteria.

Low levels of heavy metals were detected in ambient air samples at all community sampling locations. Although heavy metals were detected, all of the heavy metals concentrations were below the SSALs (see Table 1). The laboratory data sheets for the metals and asbestos samples collected from the community locations are found in **Appendix 1**.

Quality Control:

This section briefly discusses the quality control efforts made by Tetra Tech throughout the air monitoring and sampling process. All references and SOPs can be found provided with the CAMSP.

Tetra Tech is utilizing Met One Instruments, Inc., environmental beta attenuation mass monitors (E-BAM) to allow for comparison to the National Ambient Air Quality Standards (NAAQS) for particulates. E-BAMs are factory-calibrated annually and do not require daily calibration, except for a leak check and a flow audit, which were performed prior to sampling according to the manufacturer's procedures.

For asbestos sampling, Tetra Tech uses a Casella Vortex 3 or similar air sampling pump. Sampling flow rates will be determined and documented by pre- and post- calibration of each sampling pump using a primary calibration standard. Calibration and sampling are conducted in accordance with Tetra Tech SOPs 064-2, "Calibration of Air Sampling Pump" and 073-3, "Air Quality Monitoring" (Appendix A) and U.S. EPA ERT SOPs No. 2008, "General Air Monitoring and Sampling Guidelines" and 2015 "Asbestos Air Sampling," included in the CAMSP.

Tetra Tech is using Tisch Environmental High Volume Air Samplers, or equivalent, collocated with the real-time particulate monitors and asbestos samplers described above. Air samples for elemental metals at community locations are collected and analyzed in accordance with the following methods:

- U.S. EPA Compendium Method IO-2.1, Sampling of Ambient Air for Total Suspended Particulate Matter (SPM) and PM10 Using High Volume (HV) Sampler
- U.S. EPA Compendium Method IO-3.5: Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air: Determination of Metals in Ambient Particulate Matter Using Inductively Coupled Plasma/Mass Spectrometry (ICP/MS). EPA/625/R-96/010a
- U.S. EPA 40 Code of Federal Regulations (CFR) Part 50, Method for the Determination of Lead in Total Suspended Particulate Matter.
- U.S. EPA 40 CFR Part 58, Appendix E: Probe and Monitoring Path Siting Criteria for Ambient Air Quality Monitoring
- Standard Operating Procedures for Lead Monitoring Using a TSP High Volume Sampler

Field technicians conducted photographic and written documentation in accordance with Tetra Tech SOP No. 024- 4, "Recording of Notes in Field Logbook."

Following receipt of air sampling results from the off-site analytical laboratories, analytical data is maintained in an electronic database and compared to the SSALs. Level 1 data verification is completed on all analytical data and results are reviewed by an industrial hygienist.

Attachments



■ Air Sampling Locations
 Lahaina Fire Perimeter

N

 0 0.3 0.6
 Miles

Figure 1
 Air Sampling Locations

 Hawaii DOH
 2023 Lahaina Wildfire

Basemap: ESRI ArcGIS World Street Map

Table 1
HDOH CAB Ambient Community Monitoring and Sampling
Analytical Sampling Results by Date
Maui Wildfire, Lahaina
1/25/2024-1/31/2024
[Report Updated: 7/2/2024]

| Analyte | Asbestos | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Copper | Lead | Manganese | Molybdenum | Nickel | Selenium | Thallium | Vanadium | Zinc | |
|-----------------------------------------|-------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------|
| Units | s/cc | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | |
| Screening Level* | 0.0030 ¹ | 0.7 | 0.05 | 1.2 | 0.05 | 0.02 | 12 | 0.01 | 240 | 1.5 | 0.12 | 4.8 | 0.02 | 48 | 24 | 0.24 | 1200 | |
| 1/25/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0024 | 0.000462 | 0.00572 | 0.0141 | 0.0000342 | ND | 0.00806 | 0.00248 | 0.0478 | 0.00401 | 0.0456 | 0.00139 | 0.0123 | 0.000495 | 0.00000195 | 0.00355 | 0.0876 |
| | WW Pump Station #4 (AM-02) | <0.0024 | 0.0000427 | 0.000272 | 0.000983 | ND | ND | ND | 0.0000693 | 0.0199 | 0.000806 | ND | 0.000582 | ND | 0.000356 | ND | 0.000209 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0027 | 0.0000628 | 0.0000959 | 0.00175 | 0.00000633 | ND | 0.00248 | 0.000234 | 0.0456 | 0.00136 | 0.00383 | 0.00128 | 0.00106 | 0.000335 | 0.000000624 | 0.000379 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0024 | 0.0000459 | 0.000128 | ND | ND | ND | ND | 0.0000611 | 0.0268 | 0.000375 | ND | 0.00102 | ND | 0.00031 | ND | 0.00016 | ND |
| 1/26/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0024 | 0.0000566 | 0.000381 | 0.00211 | 0.0000029 | ND | ND | 0.000129 | 0.0204 | 0.000242 | 0.00255 | 0.00107 | 0.000732 | 0.000113 | 0.000000563 | 0.000246 | ND |
| | WW Pump Station #4 (AM-02) | <0.0030 | 0.0000475 | 0.000258 | 0.00129 | ND | ND | ND | 0.000122 | 0.0158 | 0.00454 | ND | 0.00108 | ND | 0.000114 | 0.000000943 | 0.000114 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0024 | 0.000062 | 0.0000565 | 0.00162 | 0.00000437 | ND | ND | 0.0000974 | 0.0376 | 0.000548 | 0.00163 | 0.00171 | 0.000656 | 0.000115 | 0.000000737 | 0.000173 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0027 | 0.000049 | 0.000131 | 0.00127 | ND | ND | ND | 0.0000478 | 0.0313 | 0.000336 | ND | 0.00136 | ND | 0.000114 | 0.000000612 | 0.000103 | ND |
| 1/27/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0024 | 0.0000677 | 0.000545 | 0.00401 | 0.0000103 | ND | 0.00245 | 0.000698 | 0.0342 | 0.000438 | 0.013 | 0.00153 | 0.00446 | 0.000223 | 0.000000711 | 0.000834 | ND |
| | WW Pump Station #4 (AM-02) | <0.0024 | 0.0000463 | 0.000196 | ND | ND | ND | ND | 0.0000374 | 0.0124 | 0.000196 | ND | 0.000832 | ND | 0.000215 | ND | 0.000141 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0024 | 0.0000577 | 0.000061 | 0.00149 | ND | ND | ND | 0.0000779 | 0.025 | 0.000191 | ND | 0.0016 | 0.000794 | 0.000209 | ND | 0.00019 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0027 | 0.0000551 | 0.000227 | 0.00106 | ND | ND | ND | 0.0000589 | 0.0267 | 0.000456 | ND | 0.00111 | ND | 0.000204 | ND | 0.000152 | ND |
| 1/28/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0024 | 0.0000986 | 0.000749 | 0.00464 | 0.00000833 | ND | 0.0027 | 0.000485 | 0.0489 | 0.00116 | 0.00951 | 0.0017 | 0.00258 | 0.000399 | 0.000000798 | 0.000966 | ND |
| | WW Pump Station #4 (AM-02) | <0.0024 | ND | 0.000202 | ND | ND | ND | ND | 0.0000571 | 0.00618 | 0.000216 | ND | 0.000444 | ND | 0.000371 | 0.000000513 | 0.000252 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0024 | 0.0000429 | 0.000083 | 0.00125 | 0.00000293 | ND | ND | 0.000106 | 0.016 | 0.000184 | 0.00179 | 0.000797 | 0.000568 | 0.000357 | 0.000000663 | 0.000266 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0027 | 0.000039 | 0.000361 | ND | ND | ND | ND | 0.0000674 | 0.0183 | 0.000416 | ND | 0.000965 | ND | 0.000348 | 0.000000651 | 0.00025 | ND |
| 1/29/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0024 | 0.000101 | 0.00166 | 0.00548 | 0.0000187 | ND | 0.00448 | 0.000986 | 0.0366 | 0.00112 | 0.0195 | 0.00157 | 0.00475 | 0.000424 | 0.0000011 | 0.00208 | ND |
| | WW Pump Station #4 (AM-02) | <0.0024 | 0.000031 | 0.000154 | ND | ND | ND | ND | 0.0000478 | 0.00736 | 0.000202 | ND | 0.000442 | ND | 0.000312 | 0.000000474 | 0.000184 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0024 | 0.0000532 | 0.0000987 | 0.00166 | 0.0000441 | ND | 0.00189 | 0.000186 | 0.0112 | 0.000308 | 0.00302 | 0.000478 | 0.00076 | 0.000368 | 0.000000604 | 0.000309 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0027 | 0.0000378 | 0.0002 | ND | ND | ND | ND | 0.0000557 | 0.0229 | 0.000365 | ND | 0.00128 | ND | 0.000357 | 0.000000574 | 0.000187 | ND |
| 1/30/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0024 | 0.000098 | 0.00175 | 0.00566 | 0.0000156 | ND | 0.0044 | 0.000884 | 0.0348 | 0.00106 | 0.0187 | 0.00158 | 0.00487 | 0.000262 | 0.000000956 | 0.00165 | ND |
| | WW Pump Station #4 (AM-02) | <0.0024 | 0.000036 | 0.00022 | 0.000984 | ND | ND | ND | 0.0000467 | 0.0156 | 0.000211 | ND | 0.00109 | ND | 0.000207 | 0.000000473 | 0.000157 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0024 | 0.0000727 | 0.000065 | 0.00145 | 0.0000033 | ND | ND | 0.000112 | 0.0273 | 0.000172 | 0.00203 | 0.00134 | 0.000724 | 0.000189 | ND | 0.000246 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0024 | 0.0000549 | 0.000121 | 0.00117 | ND | ND | ND | 0.0000646 | 0.0174 | 0.000246 | ND | 0.0011 | ND | 0.000164 | ND | 0.000189 | ND |
| 1/31/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0024 | 0.00012 | 0.0031 | 0.00376 | 0.00000543 | ND | 0.00229 | 0.000439 | 0.0573 | 0.00216 | 0.00547 | 0.0023 | 0.00112 | 0.000107 | 0.00000105 | 0.000503 | ND |
| | WW Pump Station #4 (AM-02) | <0.0024 | 0.000198 | 0.000335 | 0.00585 | 0.00000802 | ND | 0.00178 | 0.000233 | 0.0398 | 0.000606 | 0.00653 | 0.00188 | 0.000916 | 0.000145 | 0.00000079 | 0.000663 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0024 | 0.0000636 | 0.0000721 | 0.00189 | 0.00000665 | ND | ND | 0.00014 | 0.0376 | ND | 0.003 | 0.00179 | 0.000758 | 0.000125 | ND | 0.000477 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0024 | 0.000089 | 0.000209 | 0.003 | 0.00000541 | ND | 0.00186 | 0.000195 | 0.0226 | 0.000603 | 0.00501 | 0.00134 | 0.000937 | 0.000147 | 0.000000509 | 0.000681 | ND |
| 95% Upper Confidence Limit ² | | NA | 0.0001 | 0.00095 | 0.00414 | 0.000016 | NA | 0.00459 | 0.00044 | 0.0344 | 0.00119 | 0.019 | 0.00147 | 0.00416 | 0.00031 | 0.000001 | 0.000075 | NA |

Notes:

¹ Asbestos result determined by transmission electron microscopy (TEM) in accordance with ISO Method 10312.

² 95% UCL determined through 'best fit' lognormal or normal parametric statistics via W test

Data unavailable, voided sample due to damaged filter. Asbestos sample from WW pump station #4 on 1/29 was not analyzed due to the damaged filter

Laboratory metals data provided in nanograms per cubic meter, however data shown in Table 1 has been converted to micrograms per cubic meter so data was comparable to SSALS

mg/m³ = milligrams per cubic meter

NA = Not Applicable

ND = Not detected at or above the laboratory reporting limit

s/cc = structures per cubic centimeter

The asbestos results in this report have been reanalyzed by the lab in accordance with the updated SSALS

This report has been updated with new SSALS in accordance with CAMSP Rev 2, May 2024

Table 2
HDOH CAB Ambient Community Monitoring and Sampling
Particulate Monitoring Results for PM₁₀
Maui Wildfire, Lahaina
1/25/2024 - 1/31/2024
[Report Updated: 7/2/2024]

| Screening Level | | 150 µg/m ³ |
|-----------------|-------------------------------------|-----------------------|
| 1/25/2024 | Leialii Hawaiian Homelands (AM-01) | 6.1 |
| | WW Pump Station #4 (AM-02) | 7.6 |
| | Lahaina Intermediate School (AM-03) | 80 |
| | Lahaina Boys & Girls Club (AM-04) | 5.0 |
| 1/26/2024 | Leialii Hawaiian Homelands (AM-01) | 5.5 |
| | WW Pump Station #4 (AM-02) | 6.0 |
| | Lahaina Intermediate School (AM-03) | 58 |
| | Lahaina Boys & Girls Club (AM-04) | 5.8 |
| 1/27/2024 | Leialii Hawaiian Homelands (AM-01) | 8.0 |
| | WW Pump Station #4 (AM-02) | 7.3 |
| | Lahaina Intermediate School (AM-03) | 86 |
| | Lahaina Boys & Girls Club (AM-04) | 13. |
| 1/28/2024 | Leialii Hawaiian Homelands (AM-01) | 8.8 |
| | WW Pump Station #4 (AM-02) | 12 |
| | Lahaina Intermediate School (AM-03) | 7.7 |
| | Lahaina Boys & Girls Club (AM-04) | 9.4 |
| 1/29/2024 | Leialii Hawaiian Homelands (AM-01) | 13 |
| | WW Pump Station #4 (AM-02) | 12 |
| | Lahaina Intermediate School (AM-03) | 8.6 |
| | Lahaina Boys & Girls Club (AM-04) | 9.9 |
| 1/30/2024 | Leialii Hawaiian Homelands (AM-01) | 6.3 |
| | WW Pump Station #4 (AM-02) | 5.7 |
| | Lahaina Intermediate School (AM-03) | 130 |
| | Lahaina Boys & Girls Club (AM-04) | 3.7 |
| 1/31/2024 | Leialii Hawaiian Homelands (AM-01) | 15 |
| | WW Pump Station #4 (AM-02) | 11 |
| | Lahaina Intermediate School (AM-03) | 12 |
| | Lahaina Boys & Girls Club (AM-04) | 9.0 |

Notes:

µg/m³ = micrograms per cubic meter

24 hour TWA calculation results are shown in two significant figures

Results are based on 24 hour TWA calculation

Results from WW Pump Station #4 on 1/29 have been revised from previously submitted report.

Table 3
Maui Wildfire - Lahaina
Meteorological Data
1/25/2024-1/31/2024
[Report Updated: 7/2/2024]

| Date | Station ID | Weather Station Name | Wind Speed (mph) | Wind Direction (angle) | Temperature (°F) | Rel Humidity (%) | Baro Pressure (mBar) |
|-----------|------------|-----------------------------|------------------|------------------------|------------------|------------------|----------------------|
| 1/25/2024 | AM-01 | Leialii Hawaiian Homelands | 1.8 | SE | 75 | 81 | 757.2 |
| 1/25/2024 | AM-02 | WW Pump Station #4 | 1.2 | SE | 75 | 85 | 759.8 |
| 1/25/2024 | AM-03 | Lahaina Intermediate School | 3.0 | SE | 78 | 88 | 750.3 |
| 1/25/2024 | AM-04 | Lahaina Boys & Girls Club | 1.0 | SE | 74 | 84 | 759.4 |
| 1/26/2024 | AM-01 | Leialii Hawaiian Homelands | 1.7 | SSE | 75 | 79 | 757.4 |
| 1/26/2024 | AM-02 | WW Pump Station #4 | 1.1 | ESE | 76 | 83 | 759.9 |
| 1/26/2024 | AM-03 | Lahaina Intermediate School | 2.2 | ESE | 79 | 85 | 750.3 |
| 1/26/2024 | AM-04 | Lahaina Boys & Girls Club | 1.1 | SE | 74 | 82 | 759.4 |
| 1/27/2024 | AM-01 | Leialii Hawaiian Homelands | 2.0 | SSE | 76 | 78 | 757.1 |
| 1/27/2024 | AM-02 | WW Pump Station #4 | 1.8 | SSE | 77 | 81 | 759.6 |
| 1/27/2024 | AM-03 | Lahaina Intermediate School | 2.3 | SE | 80 | 86 | 750.1 |
| 1/27/2024 | AM-04 | Lahaina Boys & Girls Club | 1.3 | SSE | 76 | 80 | 759.2 |
| 1/28/2024 | AM-01 | Leialii Hawaiian Homelands | 1.9 | S | 78 | 77 | 756.7 |
| 1/28/2024 | AM-02 | WW Pump Station #4 | 2.2 | S | 78 | 81 | 759.2 |
| 1/28/2024 | AM-03 | Lahaina Intermediate School | 2.8 | SSE | 81 | 86 | 749.7 |
| 1/28/2024 | AM-04 | Lahaina Boys & Girls Club | 1.7 | S | 77 | 80 | 758.8 |
| 1/29/2024 | AM-01 | Leialii Hawaiian Homelands | 2.1 | SSE | 77 | 79 | 756.8 |
| 1/29/2024 | AM-02 | WW Pump Station #4 | 2.0 | SSE | 78 | 83 | 759.3 |
| 1/29/2024 | AM-03 | Lahaina Intermediate School | 3.2 | SSE | 81 | 87 | 749.8 |
| 1/29/2024 | AM-04 | Lahaina Boys & Girls Club | 1.4 | SSE | 78 | 80 | 758.9 |
| 1/30/2024 | AM-01 | Leialii Hawaiian Homelands | 1.7 | SSE | 74 | 80 | 758.6 |
| 1/30/2024 | AM-02 | WW Pump Station #4 | 1.1 | SE | 76 | 83 | 761.1 |
| 1/30/2024 | AM-03 | Lahaina Intermediate School | 1.0 | SSE | 79 | 88 | 751.5 |
| 1/30/2024 | AM-04 | Lahaina Boys & Girls Club | 1.0 | S | 74 | 85 | 760.5 |
| 1/31/2024 | AM-01 | Leialii Hawaiian Homelands | 0.8 | ESE | 76 | 69 | 759.1 |
| 1/31/2024 | AM-02 | WW Pump Station #4 | 0.8 | SE | 76 | 77 | 761.6 |
| 1/31/2024 | AM-03 | Lahaina Intermediate School | 1.1 | E | 80 | 76 | 752.0 |
| 1/31/2024 | AM-04 | Lahaina Boys & Girls Club | 0.8 | SSE | 74 | 77 | 761.0 |

Notes:

°F - Fahrenheit
mBar - millibar
mph - miles per hour

Appendix 1



EMSL Analytical, Inc.
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<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order ID: 042402316
Client: Tetra Tech
Project ID: HDOH Lahaina Community
Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0001 | | | Customer Sample: MFL-AM01-012524-AB | | | | | | | | |
|--------------------------------|--------------|----------------|-------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| A1 | H4 | None Detected | | | | | | | | | |
| A2 | D3 | None Detected | | | | | | | | | |
| A2 | H6 | None Detected | | | | | | | | | |
| A3 | H5 | None Detected | | | | | | | | | |
| A3 | G3 | None Detected | | | | | | | | | |

Abbreviations used:
 XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled
 XCGBLD - Crosses Countable Grid Bar Length Doubled



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

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EMSL Order ID: 042402316

Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042402316-0002 | | | | | Customer Sample: | | MFL-AM02-012524-AB | | |
|-----------------|--------------|----------------|------------------|-------|-----------------|-------|------------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| A5 | I4 | None Detected | | | | | | | | | |
| A5 | C5 | None Detected | | | | | | | | | |
| A6 | D7 | None Detected | | | | | | | | | |
| A6 | J3 | None Detected | | | | | | | | | |
| A7 | F7 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order ID: 042402316
Client: Tetra Tech
Project ID: HDOH Lahaina Community
Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0003 | | | Customer Sample: MFL-AM03-012524-AB | | | | | | | | |
|---------------------------------------|--------------|----------------|--------------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| B5 | D4 | None Detected | | | | | | | | | |
| B5 | G6 | None Detected | | | | | | | | | |
| B6 | J6 | None Detected | | | | | | | | | |
| B6 | B5 | None Detected | | | | | | | | | |
| B7 | C6 | None Detected | | | | | | | | | |

Abbreviations used:
 XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled
 XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order ID: 042402316
Client: Tetra Tech
Project ID: HDOH Lahaina Community
Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0004 | | | Customer Sample: MFL-AM04-012524-AB | | | | | | | | |
|---------------------------------------|--------------|----------------|--------------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| C1 | G7 | None Detected | | | | | | | | | |
| C1 | J3 | None Detected | | | | | | | | | |
| C2 | A4 | None Detected | | | | | | | | | |
| C2 | I4 | None Detected | | | | | | | | | |
| C3 | D7 | None Detected | | | | | | | | | |

Abbreviations used:
 XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled
 XCGBLD - Crosses Countable Grid Bar Length Doubled



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<http://www.EMSL.com> / cinnaaslab@EMSL.com

EMSL Order: 042402316
Customer ID: TTDC42
Customer PO: 1206126
Project ID: N/A

Attn: Chelsea Saber
 Tetra Tech
 1560 Broadway, Suite 1400
 Denver, CO, 80202

Phone: (703) 489-2674
Fax: N/A
Received Date: 02/05/2024 10:00 AM
Analysis Date: 02/09/2024
Report Date: 04/19/2024

Project: HDOH Lahaina Community Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Customer Sample Number: MFL-FB01-012524-AB

| | | | |
|----------------------------------------------------------|----------------|--------------------------------------------------------|-------------|
| EMSL Sample Number: | 042402316-0005 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 0.0 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (µm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0128 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 10 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 1
 Target Analytical Sensitivity (Structures/cc): 0.0034

Analytical Sensitivity (Structures/cc): N/A **Limit of Detection (Structures/cc):** N/A

| TOTAL STRUCTURES (All Sizes) | | | | | | | |
|----------------------------------|------------------|---------------------|-------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 23.36 | | | |
| Total Amphibole | ADX | 0 | 0 | < 23.36 | | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.36 | | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | | |
| Total All Structures | - | 0 | 0 | < 23.36 | | | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|-------------------------------------------------------------------------------|------------------|-----------------|-------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.36 | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.36 | | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.36 | | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.36 | | | |

Comment

Approved Signatory

Concentrations and 95% Confidence Intervals are based on a Poissonian distribution. Structure counts above 31 may be better expressed with a Gaussian distribution. EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced except in full without the written approval of EMSL. EMSL is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client.



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EMSL Order ID: 042402316

Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042402316-0005 | | | | | Customer Sample: | | MFL-FB01-012524-AB | | |
|-----------------|--------------|----------------|------------------|-------|-----------------|-------|------------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| B1 | A1 | None Detected | | | | | | | | | |
| B1 | C3 | None Detected | | | | | | | | | |
| B1 | E4 | None Detected | | | | | | | | | |
| B1 | G2 | None Detected | | | | | | | | | |
| B1 | I3 | None Detected | | | | | | | | | |
| B2 | A5 | None Detected | | | | | | | | | |
| B2 | C6 | None Detected | | | | | | | | | |
| B2 | E7 | None Detected | | | | | | | | | |
| B2 | G8 | None Detected | | | | | | | | | |
| B2 | I9 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order ID: 042402316
Client: Tetra Tech
Project ID: HDOH Lahaina Community
Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0006 | | | Customer Sample: MFL-AM01-012624-AB | | | | | | | | |
|---------------------------------------|--------------|----------------|--------------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| B5 | I5 | None Detected | | | | | | | | | |
| B5 | D3 | None Detected | | | | | | | | | |
| B6 | C8 | None Detected | | | | | | | | | |
| B6 | G6 | None Detected | | | | | | | | | |
| B7 | D5 | None Detected | | | | | | | | | |

Abbreviations used:
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EMSL Order: 042402316
Customer ID: TTDC42
Customer PO: 1206126
Project ID:

Attn: Chelsea Saber
Tetra Tech
1560 Broadway, Suite 1400
Denver, CO, 80202

Phone: (703) 489-2674
Fax:
Received Date: 02/05/2024 10:00 AM
Analysis Date: 02/06/2024
Report Date: 02/10/2024

Project: HDOH Lahaina Community Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|----------------------------------------------------------|---------------------------|------------------------------------------------------------|
| Customer Sample Number: | MFL-AM02-012624-AB | Sample Description: |
| EMSL Sample Number: | 042402316-0007 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L) : 7316.8 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): 385 |
| Minimum Length (µm): | ≥ 0.5 | Grid Opening Area (mm ²): 0.0129 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: 4 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | |
| Estimated Particulate Loading on Filter %: | 3 | |
| Target Analytical Sensitivity (Structures/cc): | 0.003 | |
| Analytical Sensitivity (Structures/cc): | 0.0010 | Limit of Detection (Structures/cc): 0.0030 |

| TOTAL STRUCTURES (All Sizes) | | | | | | | |
|----------------------------------|------------------|---------------------|----------|------------------------------|----------------------|---------------------------------|-----------------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Total Amphibole | ADX | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Actinolite | ADX | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Amosite | ADX | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Anthophyllite | ADX | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Crocidolite | ADX | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Tremolite | ADX | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Other Minerals | - | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Total All Structures | - | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |

| PCM EQUIVALENT (PCMe) STRUCTURES (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|-----------------------------------------------------------------------------------|------------------|---------------------|----------|------------------------------|----------------------|---------------------------------|-----------------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Actinolite | ADX | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Amosite | ADX | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Anthophyllite | ADX | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Crocidolite | ADX | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Tremolite | ADX | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Other Minerals | - | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |
| Total All Structures (PCMe) | - | 0 | 0 | < 57.95 | < 0.0030 | Not Applicable | - 0.0030 |

Comment
Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042402316
Client: Tetra Tech
Project ID: HDOH Lahaina Community
Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0007 | | | Customer Sample: MFL-AM02-012624-AB | | | | | | | | |
|--------------------------------|--------------|----------------|-------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| D5 | D2 | None Detected | | | | | | | | | |
| D5 | J3 | None Detected | | | | | | | | | |
| D7 | I8 | None Detected | | | | | | | | | |
| D7 | C5 | None Detected | | | | | | | | | |

Abbreviations used:
 XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled
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**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0008 | | | Customer Sample: MFL-AM03-012624-AB | | | | | | | | |
|---------------------------------------|--------------|----------------|--------------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| C1 | D7 | None Detected | | | | | | | | | |
| C1 | I9 | None Detected | | | | | | | | | |
| C2 | B9 | None Detected | | | | | | | | | |
| C2 | I8 | None Detected | | | | | | | | | |
| C3 | H3 | None Detected | | | | | | | | | |

Abbreviations used:
 XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled
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EMSL Order ID: 042402316

Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0009 | | | Customer Sample: MFL-AM04-012624-AB | | | | | | | | |
|--------------------------------|--------------|----------------|-------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| C4 | B5 | None Detected | | | | | | | | | |
| C4 | I5 | None Detected | | | | | | | | | |
| C5 | C7 | None Detected | | | | | | | | | |
| C5 | I5 | None Detected | | | | | | | | | |
| C6 | E4 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order: 042402316
Customer ID: TTDC42
Customer PO: 1206126
Project ID: N/A

Attn: Chelsea Saber
 Tetra Tech
 1560 Broadway, Suite 1400
 Denver, CO, 80202

Phone: (703) 489-2674
Fax: N/A
Received Date: 02/05/2024 10:00 AM
Analysis Date: 02/09/2024
Report Date: 04/19/2024

Project: HDOH Lahaina Community Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

| | | | |
|----------------------------------------------------------|---------------------------|--------------------------------------------------------|-------------|
| Customer Sample Number: | MFL-FB01-012624-AB | | |
| EMSL Sample Number: | 042402316-0010 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 0.0 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (µm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0128 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 10 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 1
 Target Analytical Sensitivity (Structures/cc): 0.0034

Analytical Sensitivity (Structures/cc): N/A **Limit of Detection (Structures/cc):** N/A

| TOTAL STRUCTURES (All Sizes) | | | | | | | |
|----------------------------------|------------------|---------------------|----------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 23.36 | | | |
| Total Amphibole | ADX | 0 | 0 | < 23.36 | | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.36 | | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | | |
| Total All Structures | - | 0 | 0 | < 23.36 | | | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|-------------------------------------------------------------------------------|------------------|-----------------|----------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.36 | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.36 | | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.36 | | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.36 | | | |

Comment

Approved Signatory

Concentrations and 95% Confidence Intervals are based on a Poissonian distribution. Structure counts above 31 may be better expressed with a Gaussian distribution. EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced except in full without the written approval of EMSL. EMSL is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client.



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EMSL Order ID: 042402316

Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0010 | | Customer Sample: MFL-FB01-012624-AB | | | | | | | | | |
|--------------------------------|--------------|-------------------------------------|------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| D1 | G10 | None Detected | | | | | | | | | |
| D1 | F8 | None Detected | | | | | | | | | |
| D1 | E4 | None Detected | | | | | | | | | |
| D1 | D1 | None Detected | | | | | | | | | |
| D1 | D5 | None Detected | | | | | | | | | |
| D2 | A6 | None Detected | | | | | | | | | |
| D2 | C7 | None Detected | | | | | | | | | |
| D2 | E9 | None Detected | | | | | | | | | |
| D2 | G8 | None Detected | | | | | | | | | |
| D2 | I4 | None Detected | | | | | | | | | |

Abbreviations used:
XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled
XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order ID: 042402316
Client: Tetra Tech
Project ID: HDOH Lahaina Community
Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0011 | | | Customer Sample: MFL-AM01-012724-AB | | | | | | | | |
|--------------------------------|--------------|----------------|-------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| D5 | J8 | None Detected | | | | | | | | | |
| D5 | D2 | None Detected | | | | | | | | | |
| D6 | C8 | None Detected | | | | | | | | | |
| D6 | H5 | None Detected | | | | | | | | | |
| D7 | C5 | None Detected | | | | | | | | | |

Abbreviations used:
 XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled
 XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order ID: 042402316

Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0012 | | Customer Sample: MFL-AM02-012724-AB | | | | | | | | | |
|--------------------------------|--------------|-------------------------------------|------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| G2 | A8 | None Detected | | | | | | | | | |
| G2 | G7 | None Detected | | | | | | | | | |
| G3 | C9 | None Detected | | | | | | | | | |
| G3 | H5 | None Detected | | | | | | | | | |
| G4 | E4 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order ID: 042402316

Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0013 | | | Customer Sample: MFL-AM03-012724-AB | | | | | | | | |
|--------------------------------|--------------|----------------|-------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| G6 | J3 | None Detected | | | | | | | | | |
| G6 | H6 | None Detected | | | | | | | | | |
| G7 | A5 | None Detected | | | | | | | | | |
| G7 | H2 | None Detected | | | | | | | | | |
| G7 | H6 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order ID: 042402316
 Client: Tetra Tech
 Project ID: HDOH Lahaina Community
 Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0014 | | | Customer Sample: MFL-AM04-012724-AB | | | | | | | | |
|--------------------------------|--------------|----------------|-------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| H1 | H8 | None Detected | | | | | | | | | |
| H1 | C6 | None Detected | | | | | | | | | |
| H2 | F2 | None Detected | | | | | | | | | |
| H2 | H6 | None Detected | | | | | | | | | |
| H3 | B7 | None Detected | | | | | | | | | |

Abbreviations used:
 XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled
 XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order: 042402316
Customer ID: TTDC42
Customer PO: 1206126
Project ID: N/A

Attn: Chelsea Saber
 Tetra Tech
 1560 Broadway, Suite 1400
 Denver, CO, 80202

Phone: (703) 489-2674
Fax: N/A
Received Date: 02/05/2024 10:00 AM
Analysis Date: 02/06/2024
Report Date: 04/19/2024

Project: HDOH Lahaina Community Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

| | | | |
|----------------------------------------------------------|---------------------------|--------------------------------------------------------|-------------|
| Customer Sample Number: | MFL-FB01-012724-AB | | |
| EMSL Sample Number: | 042402316-0015 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 0.0 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (µm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0129 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 10 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 1
 Target Analytical Sensitivity (Structures/cc): 0.0034

Analytical Sensitivity (Structures/cc): N/A **Limit of Detection (Structures/cc):** N/A

| TOTAL STRUCTURES (All Sizes) | | | | | | | |
|----------------------------------|------------------|---------------------|----------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 23.18 | | | |
| Total Amphibole | ADX | 0 | 0 | < 23.18 | | | |
| Actinolite | ADX | 0 | 0 | < 23.18 | | | |
| Amosite | ADX | 0 | 0 | < 23.18 | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | | | |
| Crocidolite | ADX | 0 | 0 | < 23.18 | | | |
| Tremolite | ADX | 0 | 0 | < 23.18 | | | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.18 | | | |
| Other Minerals | - | 0 | 0 | < 23.18 | | | |
| Total All Structures | - | 0 | 0 | < 23.18 | | | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|-------------------------------------------------------------------------------|------------------|-----------------|----------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.18 | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.18 | | | |
| Actinolite | ADX | 0 | 0 | < 23.18 | | | |
| Amosite | ADX | 0 | 0 | < 23.18 | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | | | |
| Crocidolite | ADX | 0 | 0 | < 23.18 | | | |
| Tremolite | ADX | 0 | 0 | < 23.18 | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.18 | | | |
| Other Minerals | - | 0 | 0 | < 23.18 | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.18 | | | |

Comment

Approved Signatory

Concentrations and 95% Confidence Intervals are based on a Poissonian distribution. Structure counts above 31 may be better expressed with a Gaussian distribution. EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced except in full without the written approval of EMSL. EMSL is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client.



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EMSL Order ID: 042402316

Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042402316-0015 | | Customer Sample: | | MFL-FB01-012724-AB | | | | | |
|-----------------|--------------|----------------|------------------|------------------|-----------------|--------------------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| H5 | A6 | None Detected | | | | | | | | | |
| H5 | C7 | None Detected | | | | | | | | | |
| H5 | E4 | None Detected | | | | | | | | | |
| H5 | G5 | None Detected | | | | | | | | | |
| H5 | I8 | None Detected | | | | | | | | | |
| H6 | J6 | None Detected | | | | | | | | | |
| H6 | H8 | None Detected | | | | | | | | | |
| H6 | F9 | None Detected | | | | | | | | | |
| H6 | D2 | None Detected | | | | | | | | | |
| H6 | B4 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

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Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042402316-0016 | | Customer Sample: | | MFL-AM01-012824-AB | | | | | |
|-----------------|--------------|----------------|------------------|------------------|-----------------|--------------------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| I1 | B4 | None Detected | | | | | | | | | |
| I2 | A7 | None Detected | | | | | | | | | |
| I2 | I10 | None Detected | | | | | | | | | |
| I3 | F3 | None Detected | | | | | | | | | |
| I3 | B4 | None Detected | | | | | | | | | |

Abbreviations used:

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Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0017 | | | Customer Sample: MFL-AM02-012824-AB | | | | | | | | |
|--------------------------------|--------------|----------------|-------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| E1 | J2 | None Detected | | | | | | | | | |
| E1 | C6 | None Detected | | | | | | | | | |
| E2 | B6 | None Detected | | | | | | | | | |
| E2 | I4 | None Detected | | | | | | | | | |
| E3 | F7 | None Detected | | | | | | | | | |

Abbreviations used:

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Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042402316-0018 | | Customer Sample: | | MFL-AM03-012824-AB | | | | | |
|-----------------|--------------|----------------|------------------|------------------|-----------------|--------------------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| E5 | J8 | None Detected | | | | | | | | | |
| E5 | E7 | None Detected | | | | | | | | | |
| E6 | D8 | None Detected | | | | | | | | | |
| E6 | J7 | None Detected | | | | | | | | | |
| E7 | D5 | None Detected | | | | | | | | | |

Abbreviations used:

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Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0019 | | | Customer Sample: MFL-AM04-012824-AB | | | | | | | | |
|--------------------------------|--------------|----------------|-------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| J5 | B5 | None Detected | | | | | | | | | |
| J5 | I6 | None Detected | | | | | | | | | |
| J6 | J6 | None Detected | | | | | | | | | |
| J6 | B5 | None Detected | | | | | | | | | |
| J6 | E4 | None Detected | | | | | | | | | |

Abbreviations used:

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EMSL Order: 042402316
Customer ID: TTDC42
Customer PO: 1206126
Project ID: N/A

Attn: Chelsea Saber
 Tetra Tech
 1560 Broadway, Suite 1400
 Denver, CO, 80202

Phone: (703) 489-2674
Fax: N/A
Received Date: 02/05/2024 10:00 AM
Analysis Date: 02/09/2024
Report Date: 04/19/2024

Project: HDOH Lahaina Community Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Customer Sample Number: MFL-FB01-012824-AB

| | | | |
|----------------------------------------------------------|----------------|--------------------------------------------------------|----------|
| EMSL Sample Number: | 042402316-0020 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 0.0 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (µm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0128 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 10 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | A. Burke |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 0
 Target Analytical Sensitivity (Structures/cc): 0.0034

Analytical Sensitivity (Structures/cc): N/A **Limit of Detection (Structures/cc):** N/A

| TOTAL STRUCTURES (All Sizes) | | | | | | | |
|----------------------------------|------------------|---------------------|-------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 23.36 | | | |
| Total Amphibole | ADX | 0 | 0 | < 23.36 | | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.36 | | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | | |
| Total All Structures | - | 0 | 0 | < 23.36 | | | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|-------------------------------------------------------------------------------|------------------|-----------------|-------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.36 | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.36 | | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.36 | | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.36 | | | |

Comment

Approved Signatory

Concentrations and 95% Confidence Intervals are based on a Poissonian distribution. Structure counts above 31 may be better expressed with a Gaussian distribution. EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced except in full without the written approval of EMSL. EMSL is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client.



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EMSL Order ID: 042402316

Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042402316-0020 | | | | | | Customer Sample: | | MFL-FB01-012824-AB | |
|-----------------|--------------|----------------|------------------|-------|-----------------|-------|-------------|------------------|-----------------------|--------------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| F1 | I5 | None Detected | | | | | | | | | |
| F1 | G7 | None Detected | | | | | | | | | |
| F1 | F4 | None Detected | | | | | | | | | |
| F1 | D6 | None Detected | | | | | | | | | |
| F1 | A5 | None Detected | | | | | | | | | |
| F2 | A6 | None Detected | | | | | | | | | |
| F2 | C5 | None Detected | | | | | | | | | |
| F2 | E3 | None Detected | | | | | | | | | |
| F2 | H4 | None Detected | | | | | | | | | |
| F2 | H7 | None Detected | | | | | | | | | |

Abbreviations used:
XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled
XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order: 042402316
Customer ID: TTDC42
Customer PO: 1206126
Project ID: N/A

Attn: Chelsea Saber
 Tetra Tech
 1560 Broadway, Suite 1400
 Denver, CO, 80202

Phone: (703) 489-2674
Fax: N/A
Received Date: 02/05/2024 10:00 AM
Analysis Date: 02/09/2024 & 04/17/2024
Report Date: 04/19/2024

Project: HDOH Lahaina Community Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Customer Sample Number: MFL-AM01-012924-AB

| | | | |
|----------------------------------------------------------|----------------|--------------------------------------------------------|---------------------|
| EMSL Sample Number: | 042402316-0021 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7088.8 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (µm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0128 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | A. Burke & G. Barry |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 6
 Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008 **Limit of Detection (Structures/cc): 0.0024**

| TOTAL STRUCTURES (All Sizes) | | | | | | | |
|----------------------------------|------------------|---------------------|-------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|-------------------------------------------------------------------------------|------------------|-----------------|-------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |

Comment
 Numerous gypsum fibers present.

Approved Signatory

Concentrations and 95% Confidence Intervals are based on a Poissonian distribution. Structure counts above 31 may be better expressed with a Gaussian distribution. EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced except in full without the written approval of EMSL. EMSL is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client.



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EMSL Order ID: 042402316

Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042402316-0021 | | | | | Customer Sample: | | MFL-AM01-012924-AB | | |
|-----------------|--------------|----------------|------------------|-------|-----------------|-------|------------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| F5 | G3 | None Detected | | | | | | | | | |
| F5 | C6 | None Detected | | | | | | | | | |
| F6 | H8 | None Detected | | | | | | | | | |
| F6 | B5 | None Detected | | | | | | | | | |
| F6 | E8 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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Attn: Chelsea Saber
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Phone: (703) 489-2674
Fax: N/A
Received Date: 02/05/2024 10:00 AM
Analysis Date: N/A
Report Date: 04/19/2024

Project: HDOH Lahaina Community Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Customer Sample Number: MFL-AM02-012924-AB

| | | | |
|----------------------------------------------------------|----------------|--------------------------------------------------------|--------|
| EMSL Sample Number: | 042402316-0022 | Sample Matrix: | Air |
| Magnification used for fiber counting: | N/A | Volume (L): | 7283.1 |
| Aspect ratio for fiber definition: | N/A | Area of original collection filter (mm ²): | 385 |
| Minimum Length (µm): | N/A | Grid Opening Area (mm ²): | 0.0000 |
| Chi ² Test for Random Distribution on Filter: | N/A | Grid Openings Analyzed: | N/A |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | N/A |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: N/A
 Target Analytical Sensitivity (Structures/cc): 0.0034

Analytical Sensitivity (Structures/cc): Not Analyzed **Limit of Detection (Structures/cc):** Not Analyzed

| TOTAL STRUCTURES (All Sizes) | | | | | | | |
|----------------------------------|------------------|---------------------|-------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | Not Analyzed | | | | | |
| Total Amphibole | ADX | Not Analyzed | | | | | |
| Actinolite | ADX | Not Analyzed | | | | | |
| Amosite | ADX | Not Analyzed | | | | | |
| Anthophyllite | ADX | Not Analyzed | | | | | |
| Crocidolite | ADX | Not Analyzed | | | | | |
| Tremolite | ADX | Not Analyzed | | | | | |
| Total Asbestos Structures | CD/ADX | Not Analyzed | | | | | |
| Other Minerals | - | Not Analyzed | | | | | |
| Total All Structures | - | Not Analyzed | | | | | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|-------------------------------------------------------------------------------|------------------|---------------------|-------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | Not Analyzed | | | | | |
| Total Amphibole (PCMe) | ADX | Not Analyzed | | | | | |
| Actinolite | ADX | Not Analyzed | | | | | |
| Amosite | ADX | Not Analyzed | | | | | |
| Anthophyllite | ADX | Not Analyzed | | | | | |
| Crocidolite | ADX | Not Analyzed | | | | | |
| Tremolite | ADX | Not Analyzed | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | Not Analyzed | | | | | |
| Other Minerals | - | Not Analyzed | | | | | |
| Total All Structures (PCMe) | - | Not Analyzed | | | | | |

Comment
 Filter received damaged. Unable to analyze.

Approved Signatory

Concentrations and 95% Confidence Intervals are based on a Poissonian distribution. Structure counts above 31 may be better expressed with a Gaussian distribution. EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced except in full without the written approval of EMSL. EMSL is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client.



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<http://www.EMSL.com> / cinnaaslab@EMSL.com

EMSL Order: 042402316
Customer ID: TTDC42
Customer PO: 1206126
Project ID: N/A

Attn: Chelsea Saber
 Tetra Tech
 1560 Broadway, Suite 1400
 Denver, CO, 80202

Phone: (703) 489-2674
Fax: N/A
Received Date: 02/05/2024 10:00 AM
Analysis Date: 02/09/2024 & 04/17/2024
Report Date: 04/19/2024

Project: HDOH Lahaina Community Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Customer Sample Number: MFL-AM03-012924-AB

| | | | |
|----------------------------------------------------------|----------------|--------------------------------------------------------|---------------------|
| EMSL Sample Number: | 042402316-0023 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7109.0 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (µm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0128 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | A. Burke & G. Barry |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 6
 Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008 **Limit of Detection (Structures/cc): 0.0024**

| TOTAL STRUCTURES (All Sizes) | | | | | | | |
|----------------------------------|------------------|---------------------|-------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|-------------------------------------------------------------------------------|------------------|-----------------|-------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042402316

Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0023 | | | Customer Sample: MFL-AM03-012924-AB | | | | | | | | |
|--------------------------------|--------------|----------------|-------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| G1 | B6 | None Detected | | | | | | | | | |
| G1 | F7 | None Detected | | | | | | | | | |
| G2 | C6 | None Detected | | | | | | | | | |
| G2 | I5 | None Detected | | | | | | | | | |
| G2 | G2 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order ID: 042402316

Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0024 | | | Customer Sample: MFL-AM04-012924-AB | | | | | | | | |
|--------------------------------|--------------|----------------|-------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| B3 | A6 | None Detected | | | | | | | | | |
| B3 | C9 | None Detected | | | | | | | | | |
| B4 | H3 | None Detected | | | | | | | | | |
| B4 | B5 | None Detected | | | | | | | | | |
| B1 | I7 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order: 042402316
Customer ID: TTDC42
Customer PO: 1206126
Project ID: N/A

Attn: Chelsea Saber
 Tetra Tech
 1560 Broadway, Suite 1400
 Denver, CO, 80202

Phone: (703) 489-2674
Fax: N/A
Received Date: 02/05/2024 10:00 AM
Analysis Date: 02/09/2024
Report Date: 04/19/2024

Project: HDOH Lahaina Community Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Customer Sample Number: MFL-FB01-012924-AB

| | | | |
|----------------------------------------------------------|----------------|--------------------------------------------------------|----------|
| EMSL Sample Number: | 042402316-0025 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 10,000 | Volume (L): | 0.0 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (µm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0128 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 10 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | A. Burke |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 2
 Target Analytical Sensitivity (Structures/cc): 0.0034

Analytical Sensitivity (Structures/cc): N/A **Limit of Detection (Structures/cc):** N/A

| TOTAL STRUCTURES (All Sizes) | | | | | | | |
|----------------------------------|------------------|---------------------|----------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 23.36 | | | |
| Total Amphibole | ADX | 0 | 0 | < 23.36 | | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.36 | | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | | |
| Total All Structures | - | 0 | 0 | < 23.36 | | | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|-------------------------------------------------------------------------------|------------------|-----------------|----------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.36 | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.36 | | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.36 | | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.36 | | | |

Comment

Approved Signatory

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EMSL Order ID: 042402316

Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042402316-0025 | | Customer Sample: | | MFL-FB01-012924-AB | | | | | |
|-----------------|--------------|----------------|------------------|------------------|-----------------|--------------------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| G5 | J7 | None Detected | | | | | | | | | |
| G5 | G8 | None Detected | | | | | | | | | |
| G5 | F9 | None Detected | | | | | | | | | |
| G5 | D7 | None Detected | | | | | | | | | |
| G5 | B8 | None Detected | | | | | | | | | |
| G6 | B6 | None Detected | | | | | | | | | |
| G6 | C4 | None Detected | | | | | | | | | |
| G6 | E2 | None Detected | | | | | | | | | |
| G6 | G3 | None Detected | | | | | | | | | |
| G6 | H5 | None Detected | | | | | | | | | |

Abbreviations used:
XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled
XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order ID: 042402316

Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042402316-0026 | | Customer Sample: | | MFL-AM01-013024-AB | | | | | |
|-----------------|--------------|----------------|------------------|------------------|-----------------|--------------------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| H2 | I6 | None Detected | | | | | | | | | |
| H2 | D5 | None Detected | | | | | | | | | |
| H3 | D7 | None Detected | | | | | | | | | |
| H3 | G4 | None Detected | | | | | | | | | |
| H3 | J6 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order: 042402316
Customer ID: TTDC42
Customer PO: 1206126
Project ID: N/A

Attn: Chelsea Saber
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 1560 Broadway, Suite 1400
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Phone: (703) 489-2674
Fax: N/A
Received Date: 02/05/2024 10:00 AM
Analysis Date: 02/09/2024 & 04/17/2024
Report Date: 04/19/2024

Project: HDOH Lahaina Community Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Customer Sample Number: MFL-AM02-013024-AB

| | | | |
|----------------------------------------------------------|----------------|--------------------------------------------------------|---------------------|
| EMSL Sample Number: | 042402316-0027 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7237.7 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (µm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0128 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | A. Burke & G. Barry |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 4
 Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008 **Limit of Detection (Structures/cc): 0.0024**

| TOTAL STRUCTURES (All Sizes) | | | | | | | |
|----------------------------------|------------------|---------------------|----------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|-------------------------------------------------------------------------------|------------------|-----------------|----------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0027 | | | Customer Sample: MFL-AM02-013024-AB | | | | | | | | |
|--------------------------------|--------------|----------------|-------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| H6 | B6 | None Detected | | | | | | | | | |
| H6 | F7 | None Detected | | | | | | | | | |
| H7 | C7 | None Detected | | | | | | | | | |
| H7 | J4 | None Detected | | | | | | | | | |
| H5 | F4 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order ID: 042402316
Client: Tetra Tech
Project ID: HDOH Lahaina Community
Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0028 | | | Customer Sample: MFL-AM03-013024-AB | | | | | | | | |
|--------------------------------|--------------|----------------|-------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| D2 | I6 | None Detected | | | | | | | | | |
| D2 | B7 | None Detected | | | | | | | | | |
| D3 | C7 | None Detected | | | | | | | | | |
| D3 | J5 | None Detected | | | | | | | | | |
| D5 | G7 | None Detected | | | | | | | | | |

Abbreviations used:
 XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled
 XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order ID: 042402316

Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042402316-0029 | | Customer Sample: | | MFL-AM04-013024-AB | | | | | |
|-----------------|--------------|----------------|------------------|------------------|-----------------|--------------------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| F1 | E3 | None Detected | | | | | | | | | |
| F1 | B5 | None Detected | | | | | | | | | |
| F3 | D4 | None Detected | | | | | | | | | |
| F3 | G3 | None Detected | | | | | | | | | |
| F3 | J7 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order: 042402316
Customer ID: TTDC42
Customer PO: 1206126
Project ID: N/A

Attn: Chelsea Saber
 Tetra Tech
 1560 Broadway, Suite 1400
 Denver, CO, 80202

Phone: (703) 489-2674
Fax: N/A
Received Date: 02/05/2024 10:00 AM
Analysis Date: 02/09/2024
Report Date: 04/19/2024

Project: HDOH Lahaina Community Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Customer Sample Number: MFL-FB01-013024-AB

| | | | |
|----------------------------------------------------------|----------------|--------------------------------------------------------|----------|
| EMSL Sample Number: | 042402316-0030 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 0.0 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (µm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0128 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 10 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | A. Burke |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 1
 Target Analytical Sensitivity (Structures/cc): 0.0034

Analytical Sensitivity (Structures/cc): N/A **Limit of Detection (Structures/cc):** N/A

| TOTAL STRUCTURES (All Sizes) | | | | | | | |
|----------------------------------|------------------|---------------------|-------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 23.36 | | | |
| Total Amphibole | ADX | 0 | 0 | < 23.36 | | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.36 | | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | | |
| Total All Structures | - | 0 | 0 | < 23.36 | | | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|-------------------------------------------------------------------------------|------------------|-----------------|-------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.36 | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.36 | | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.36 | | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.36 | | | |

Comment

Approved Signatory

Concentrations and 95% Confidence Intervals are based on a Poissonian distribution. Structure counts above 31 may be better expressed with a Gaussian distribution. EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced except in full without the written approval of EMSL. EMSL is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client.



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EMSL Order ID: 042402316

Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042402316-0030 | | | | | | Customer Sample: | | MFL-FB01-013024-AB | |
|-----------------|--------------|----------------|------------------|-------|-----------------|-------|-------------|------------------|-----------------------|--------------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| F5 | C6 | None Detected | | | | | | | | | |
| F5 | D4 | None Detected | | | | | | | | | |
| F5 | F3 | None Detected | | | | | | | | | |
| F5 | G4 | None Detected | | | | | | | | | |
| F5 | H7 | None Detected | | | | | | | | | |
| F6 | J5 | None Detected | | | | | | | | | |
| F6 | F8 | None Detected | | | | | | | | | |
| F6 | D9 | None Detected | | | | | | | | | |
| F6 | C7 | None Detected | | | | | | | | | |
| F6 | A8 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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EMSL Order ID: 042402316
Client: Tetra Tech
Project ID: HDOH Lahaina Community
Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0031 | | | Customer Sample: MFL-AM01-013124-AB | | | | | | | | |
|--------------------------------|--------------|----------------|-------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| G1 | I6 | None Detected | | | | | | | | | |
| G1 | E10 | None Detected | | | | | | | | | |
| G2 | I7 | None Detected | | | | | | | | | |
| G2 | D9 | None Detected | | | | | | | | | |
| G3 | C5 | None Detected | | | | | | | | | |

Abbreviations used:
 XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled
 XCGBLD - Crosses Countable Grid Bar Length Doubled



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Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042402316-0032 | | Customer Sample: | | MFL-AM02-013124-AB | | | | | |
|-----------------|--------------|----------------|------------------|------------------|-----------------|--------------------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| F1 | G8 | None Detected | | | | | | | | | |
| F1 | D5 | None Detected | | | | | | | | | |
| F2 | C6 | None Detected | | | | | | | | | |
| F2 | I5 | None Detected | | | | | | | | | |
| F3 | E7 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

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Customer ID: TTDC42
Customer PO: 1206126
Project ID: N/A

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 Denver, CO, 80202

Phone: (703) 489-2674
Fax: N/A
Received Date: 02/05/2024 10:00 AM
Analysis Date: 02/09/2024 & 04/17/2024
Report Date: 04/19/2024

Project: HDOH Lahaina Community Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Customer Sample Number: MFL-AM03-013124-AB

| | | | |
|----------------------------------------------------------|----------------|--------------------------------------------------------|---------------------|
| EMSL Sample Number: | 042402316-0033 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 7082.5 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (µm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0128 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | A. Burke & G. Barry |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 7
 Target Analytical Sensitivity (Structures/cc): 0.001

Analytical Sensitivity (Structures/cc): 0.0008 **Limit of Detection (Structures/cc): 0.0024**

| TOTAL STRUCTURES (All Sizes) | | | | | | | |
|----------------------------------|------------------|---------------------|----------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|-------------------------------------------------------------------------------|------------------|-----------------|----------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0033 | | | Customer Sample: MFL-AM03-013124-AB | | | | | | | | |
|--------------------------------|--------------|----------------|-------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| I2 | B4 | None Detected | | | | | | | | | |
| I2 | I3 | None Detected | | | | | | | | | |
| I3 | I7 | None Detected | | | | | | | | | |
| I3 | C5 | None Detected | | | | | | | | | |
| I4 | H3 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



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Client: Tetra Tech
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Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Analytical Bench Sheet Data

| EMSL Sample ID: 042402316-0034 | | | Customer Sample: MFL-AM04-013124-AB | | | | | | | | |
|---------------------------------------|--------------|----------------|--------------------------------------------|-------|-----------------|-------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| 15 | H5 | None Detected | | | | | | | | | |
| 15 | D7 | None Detected | | | | | | | | | |
| 16 | J4 | None Detected | | | | | | | | | |
| 16 | E7 | None Detected | | | | | | | | | |
| 17 | I6 | None Detected | | | | | | | | | |

Abbreviations used:
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Project ID: N/A

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Phone: (703) 489-2674
Fax: N/A
Received Date: 02/05/2024 10:00 AM
Analysis Date: 02/09/2024
Report Date: 04/19/2024

Project: HDOH Lahaina Community Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

Customer Sample Number: MFL-FB01-013124-AB

| | | | |
|----------------------------------------------------------|----------------|--------------------------------------------------------|----------|
| EMSL Sample Number: | 042402316-0035 | Sample Matrix: | Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): | 0.0 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): | 385 |
| Minimum Length (µm): | ≥ 0.5 | Grid Opening Area (mm ²): | 0.0128 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: | 10 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: | A. Burke |
| Minimum Level of analysis (amphibole): | ADX | | |

Estimated Particulate Loading on Filter %: 2
 Target Analytical Sensitivity (Structures/cc): 0.0034

Analytical Sensitivity (Structures/cc): N/A **Limit of Detection (Structures/cc):** N/A

| TOTAL STRUCTURES (All Sizes) | | | | | | | |
|----------------------------------|------------------|---------------------|-------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 23.36 | | | |
| Total Amphibole | ADX | 0 | 0 | < 23.36 | | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.36 | | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | | |
| Total All Structures | - | 0 | 0 | < 23.36 | | | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|-------------------------------------------------------------------------------|------------------|-----------------|-------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.36 | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.36 | | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.36 | | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.36 | | | |

Comment

Approved Signatory

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Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042402316-0035 | | | | | Customer Sample: | | MFL-FB01-013124-AB | | |
|-----------------|--------------|----------------|------------------|-------|-----------------|-------|------------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| J1 | J6 | None Detected | | | | | | | | | |
| J1 | G6 | None Detected | | | | | | | | | |
| J1 | E8 | None Detected | | | | | | | | | |
| J1 | D5 | None Detected | | | | | | | | | |
| J1 | A7 | None Detected | | | | | | | | | |
| J2 | B4 | None Detected | | | | | | | | | |
| J2 | D3 | None Detected | | | | | | | | | |
| J2 | E4 | None Detected | | | | | | | | | |
| J2 | E7 | None Detected | | | | | | | | | |
| J2 | I7 | None Detected | | | | | | | | | |

Abbreviations used:
XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled
XCGBLD - Crosses Countable Grid Bar Length Doubled



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Customer PO: 1206126
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Fax: N/A
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Analysis Date: 02/05/2024
Report Date: 04/19/2024

Project: HDOH Lahaina Community Air / 103S864023206

**ISO 10312 Determination of Asbestos Fibers
 Direct Transfer Transmission Electron Microscopy**

| Customer Sample Number: | Lab Blank | Sample Description: Lab Blank |
|----------------------------------------------------------|----------------|------------------------------------------------------------|
| EMSL Sample Number: | 042402316-0036 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 0.0 |
| Aspect ratio for fiber definition: | 3:1 | Area of original collection filter (mm ²): 385 |
| Minimum Length (µm): | ≥ 0.5 | Grid Opening Area (mm ²): 0.0129 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: 10 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | |

Estimated Particulate Loading on Filter %: 1
 Target Analytical Sensitivity (Structures/cc): 0.0034

Analytical Sensitivity (Structures/cc): N/A **Limit of Detection (Structures/cc):** N/A

| TOTAL STRUCTURES (All Sizes) | | | | | | | |
|----------------------------------|------------------|---------------------|----------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile | CD | 0 | 0 | < 23.18 | | | |
| Total Amphibole | ADX | 0 | 0 | < 23.18 | | | |
| Actinolite | ADX | 0 | 0 | < 23.18 | | | |
| Amosite | ADX | 0 | 0 | < 23.18 | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | | | |
| Crocidolite | ADX | 0 | 0 | < 23.18 | | | |
| Tremolite | ADX | 0 | 0 | < 23.18 | | | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.18 | | | |
| Other Minerals | - | 0 | 0 | < 23.18 | | | |
| Total All Structures | - | 0 | 0 | < 23.18 | | | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|-------------------------------------------------------------------------------|------------------|-----------------|----------|------------------------------|----------------------|---------------------------------|-------|
| | Minimum ID Level | Fibers Detected | | Density (F/mm ²) | Concentration (F/cc) | 95 % Confidence Interval (F/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.18 | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.18 | | | |
| Actinolite | ADX | 0 | 0 | < 23.18 | | | |
| Amosite | ADX | 0 | 0 | < 23.18 | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | | | |
| Crocidolite | ADX | 0 | 0 | < 23.18 | | | |
| Tremolite | ADX | 0 | 0 | < 23.18 | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.18 | | | |
| Other Minerals | - | 0 | 0 | < 23.18 | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.18 | | | |

Comment

Approved Signatory

Concentrations and 95% Confidence Intervals are based on a Poissonian distribution. Structure counts above 31 may be better expressed with a Gaussian distribution. EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced except in full without the written approval of EMSL. EMSL is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client.



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

http://www.EMSL.com / cinnaslab@EMSL.com

EMSL Order ID: 042402316

Client: Tetra Tech

Project ID: HDOH Lahaina Community
Air / 103S864023206

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042402316-0036 | | Customer Sample: | | Lab Blank | | | | | |
|-----------------|--------------|----------------|------------------|------------------|-----------------|-----------|-------------|--------------|-----------------------|--------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number | | Dimensions (µm) | | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| | | | Primary | Total | Length | Width | | | | | |
| A2 | J9 | None Detected | | | | | | | | | |
| A2 | H3 | None Detected | | | | | | | | | |
| A2 | F4 | None Detected | | | | | | | | | |
| A2 | D3 | None Detected | | | | | | | | | |
| A2 | B2 | None Detected | | | | | | | | | |
| A3 | J9 | None Detected | | | | | | | | | |
| A3 | G8 | None Detected | | | | | | | | | |
| A3 | F10 | None Detected | | | | | | | | | |
| A3 | D4 | None Detected | | | | | | | | | |
| A3 | B2 | None Detected | | | | | | | | | |

Abbreviations used:

XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled

XCGBLD - Crosses Countable Grid Bar Length Doubled



Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

042402316

PHONE: (800) 220-3675
EMAIL: CinnAslab@EMSL.com

EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization.

| | | |
|---------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------|
| Customer Information | Customer ID: | Billing ID: |
| | Company Name: <i>Tetra Tech</i> | Company Name: |
| | Contact Name: <i>Chelsea Seber</i> | Billing Contact: |
| | Street Address: <i>1550 Broadway, St 1400, Denver CO</i> | Street Address: |
| | City, State, Zip: <i>Denver, CO 80202</i> Country: <i>US</i> | City, State, Zip: Country: |
| Phone: <i>703-885-5494</i> | Phone: | RECEIVED EMSL CINNAMINSON, NJ 2024 FEB -5 A 8:53 |
| Email(s) for Report: <i>chelsea.seber@tetratech.com</i> | Email(s) for Invoice: | |

| | | |
|-------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------|
| Project Information | | Purchase Order: |
| Project Name/No: <i>HDDH Whoina Community Air / 1035864023206</i> | US State where samples collected: <i>HI</i> | State of Connecticut (CT) must select project location: |
| EMSL LIMS Project ID: (If applicable, EMSL will provide) | <input type="checkbox"/> Commercial (Taxable) | <input type="checkbox"/> Residential (Non-Taxable) |
| Sampled By Name: <i>Elin Kergon Saldana</i> | Sampled By Signature: <i>[Signature]</i> | No. of Samples in Shipment: <i>35</i> |

Turn-Around-Time (TAT)

3 Hour
 4-4.5 Hour AHERA ONLY
 6 Hour
 24 Hour
 32 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

TEM Air 3-6 Hour, please call ahead to schedule. 32 Hour TAT available for select tests only; samples must be submitted by 11:30 am.

| | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>PCM Air</p> <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> NIOSH 7400 w/ 8hr. TWA <p>PLM - Bulk (reporting limit)</p> <input type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> POINT COUNT <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%) POINT COUNT w/ GRAVIMETRIC <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%) <input type="checkbox"/> NIOSH 9002 (<1%) <input type="checkbox"/> NYS 198.1 (Friable - NY) <input type="checkbox"/> NYS 198.6 NOB (Non-Friable - NY) <input type="checkbox"/> NYS 198.8 (Vermiculite SM-V) | <p>TEM - Air</p> <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input checked="" type="checkbox"/> ISO 10312* <p>TEM - Bulk</p> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (Non-Friable-NY) <input type="checkbox"/> TEM EPA 600/R-93/116 w Milling Prep (0.1%) <p>Other Test (please specify)</p> | <p>TEM - Settled Dust</p> <input type="checkbox"/> Microvac - ASTM D5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Qualitative via Filtration Prep <input type="checkbox"/> Qualitative via Drop Mount Prep <p>Soil - Rock - Vermiculite (reporting limit)*</p> <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.25%) <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.1%) <input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%) <input type="checkbox"/> TEM Qualitative via Filtration Prep <input type="checkbox"/> TEM Qualitative via Drop Mount Prep |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

*Please call with your project-specific requirements.

Positive Stop - Clearly Identified Homogeneous Areas (HA)
 Filter Pore Size (Air Samples) 0.8um 0.45um

| Sample Number | Sample Location / Description | Volume, Area or Homogeneous Area | Date / Time Sampled (Air Monitoring Only) |
|--------------------|-------------------------------|----------------------------------|-------------------------------------------|
| MFL-AM01-012524-AB | | 7,175.088 L | 01/25/24 1109 |
| MFL-AM02-012524-AB | | 7,279.344 L | 01/25/24 1139 |
| MFL-AM03-012524-AB | | 6,986.880 L | 01/25/24 1321 |
| MFL-AM04-012524-AB | | 7,272.720 L | 01/25/24 1350 |
| MFL-FB01-012524-AB | | 0 L | 01/25/24 0730 |
| MFL-AM01-012624-AB | | 7,134.431 L | 01/26/24 1109 |
| MFL-AM02-012624-AB | | 7,316.755 L | 01/26/24 1140 |
| MFL-AM03-012624-AB | | 7,162.256 L | 01/26/24 1324 |

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)
 Sample MFL-AM02-012924-AB received with damaged filter. Unable to analyze.
 All other samples received acceptable for analysis.
 Report revised 4/19/24 to reach LOD of 0.003 s/cc.

| | |
|---------------------------------------------------------------------|-------------------------------------------------------------|
| Method of Shipment: <i>FedEx</i> | Sample Condition Upon Receipt: |
| Relinquished by: <i>[Signature]</i> Date/Time: <i>02/01/24 1100</i> | Received by: <i>[Signature]</i> Date/Time: <i>2-5-24 10</i> |
| Relinquished by: | Received by: |

Controlled Document - COC-05 Asbestos R18 10/26/2021 AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)
 EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.



Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: CinnAsblab@EMSL.com

042402316

EMSL ANALYTICAL, INC.
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Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

RECEIVED
EMSL
CINNAMINSON, NJ
2024 FEB - 5 4 10 53

| Sample Number | Sample Location / Description | Volume, Area or Homogeneous Area | Date / Time Sampled (Air Monitoring Only) |
|--------------------|-------------------------------|----------------------------------|----------------------------------------------|
| MFL-AM01-012624-AB | | 6,944.533L | 01/26/24 1105 |
| MFL-FB01-012624-AB | | 0 L | 01/26/24 0730 |
| MFL-AM01-012724-AB | | 7,207.057L | 01/27/24 1104 |
| MFL-AM02-012724-AB | | 7,169.702L | 01/27/24 1133 |
| MFL-AM03-012724-AB | | 7,160.274L | 01/27/24 1309 |
| MFL-AM04-012724-AB | | 6,484.031L | 01/27/24 1346 |
| MFL-FB01-012724-AB | | 0 L | 01/27/24 0730 |
| MFL-AM01-012824-AB | | 7,218.050L | 01/28/24 1103 |
| MFL-AM02-012824-AB | | 7,244.711L | 01/28/24 1132 |
| MFL-AM03-012824-AB | | 7,203.412L | 01/28/24 1307 |
| MFL-AM04-012824-AB | | 6,678.728L | 01/28/24 1335 |
| MFL-FB01-012824-AB | | 0 L | 01/28/24 0730 |
| MFL-AM01-012924-AB | | 7,088.820L | 01/29/24 1107 |
| MFL-AM02-012924-AB | | 7,283.088L | 01/29/24 1134 |
| MFL-AM03-012924-AB | | 7,108.992L | 01/29/24 1312 |
| MFL-AM04-012924-AB | | 6,901.308L | 01/29/24 1342 |
| MFL-FB01-012924-AB | | 0 L | 01/29/24 0730 |
| MFL-AM01-013024-AB | | 7,223.037L | 01/30/24 1105 |
| MFL-AM02-013024-AB | | 7,237.727L | 01/30/24 1132 |
| MFL-AM03-013024-AB | | 7,273.154L | 01/30/24 1318 |
| MFL-AM04-013024-AB | | 7,195.104L | 01/30/24 1348 |
| MFL-FB01-013024-AB | | 0 L | 01/30/24 0730 |
| MFL-AM01-013124-AB | | 7,314.336L | 01/31/24 1108 |
| MFL-AM02-013124-AB | | 7,244.784L | 01/31/24 1134 |
| MFL-AM03-013124-AB | | 7,082.470L | 01/31/24 1318 |

| | | | |
|-------------------------------------|---------------------------------|--------------------------------|------------|
| Method of Shipment: FedEx | | Sample Condition Upon Receipt: | |
| Relinquished by: [Signature] | Date/Time: 02/01/24 1100 | Received by: | Date/Time: |
| Relinquished by: | Date/Time: | Received by: | Date/Time: |

Controlled Document - COC-05 Asbestos R16 10/26/2021

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

Stage 1 Data Verification Checklist – Asbestos
HDOH CAB – Ambient Community Air Sampling – Lahaina
Task Order No. 23141

Reviewed by:

Kierra Johnson 04/19/2024 and Shanna Vasser 4/22/2024

Laboratory: EMSL Analytical, Inc. – North Cinnaminson, NJ

Analysis date: 1/25/2024 – 1/31/2024

Report No: 042402316

- 1. Chain of custody (CoC) documentation is present.
- 2. Sample receipt condition information is present and acceptable.
- 3. Laboratory conducting the analysis is identified.
- 4. All samples submitted to the laboratory are accounted for.
- 5. Requested analytical methods were performed.
- 6. Analysis dates are provided.
- 7. Analyte results are provided.
- 8. Result qualifiers and definitions are provided.
- 9. Result units are reported.
- 10. Requested reporting limits are present.
- 11. Method detection limits are present.
- 12. Sample collection date and time are present.
- 13. No detections in field QC blanks (lot/media blanks, field blanks, etc).

Discrepancies:

- 1. Report was revised on 04/19/2024 to adjust the limit of detection (LOD) to 0.003 s/cc.
- 2. MFL-AM04-012624-AB was logged in as MFL-AM07-012624-AB. A new report was generated to correct the sample ID. No action was necessary for this discrepancy.
- 4. Sample MFL-AM02-012924-AB was listed on the CoC; however, no results were present in the laboratory data package. The sample was received at the laboratory with a damaged filter and could not be analyzed. No action was necessary for this discrepancy.

Notes: None.



Eastern Research Group
601 Keystone Park Drive
Suite 700
Morrisville, NC 27560

February 13, 2024

Ms. Chelsea Saber
Tetra Tech, Inc.
1777 Sentry Pkwy, Bldg 12
Blue Bell, PA 19422
Project Name: Lahaina fires

Dear Ms. Chelsea Saber,

This report contains the analytical results for the sample(s) received under chain(s) of custody by Eastern Research Group on 02/05/24 11:24.

Values below the MDL for QC results in this report are recorded as ND, however the actual values are reported in the accompanying Excel report with a "U" flag (Under the detection limit). The actual values are reported in AQS.

This test is accredited under the 2016 TNI Standard for Environmental Laboratories (FL DOH Certification # E87673). All analyses were performed as described in the US EPA-approved QAPP, under the contract for National Hazardous Air Pollutant Support (US EPA Contract No. 68HERH22D0002). This cover page is an integral part of this report, and any exceptions or comments are noted on the last page.

Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

The issuance of the final Certificate of Analysis takes precedence over any previous Report. If you have any questions, please contact me at 919-468-7924.

Sincerely,

Julie Swift
Program Manager
julie.swift@erg.com

The information contained in this report and its attachment(s) are intended only for the use of the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this report is strictly prohibited. If you have received this report in error, please notify julie.swift@erg.com and delete the report without retaining any copies.



CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
1777 Sentry Pkwy, Bldg 12
Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001

REPORTED: 02/13/24 16:40

SUBMITTED: 02/05/24

AQS SITE CODE:

SITE CODE: Lahaina fires

ANALYTICAL REPORT FOR SAMPLES

| <u>SampleName</u> | <u>LabNumber</u> | <u>Matrix</u> | <u>Sampled</u> | <u>Received</u> |
|--------------------|------------------|---------------|----------------|-----------------|
| MFL-AM01-012524-HM | 4020650-01 | Air | 01/25/24 23:59 | 02/05/24 11:24 |
| MFL-AM02-012524-HM | 4020650-02 | Air | 01/25/24 23:59 | 02/05/24 11:24 |
| MFL-AM03-012524-HM | 4020650-03 | Air | 01/25/24 23:59 | 02/05/24 11:24 |
| MFL-AM04-012524-HM | 4020650-04 | Air | 01/25/24 23:59 | 02/05/24 11:24 |
| MFL-AM01-012624-HM | 4020650-05 | Air | 01/26/24 23:59 | 02/05/24 11:24 |
| MFL-AM02-012624-HM | 4020650-06 | Air | 01/26/24 23:59 | 02/05/24 11:24 |
| MFL-AM03-012624-HM | 4020650-07 | Air | 01/26/24 23:59 | 02/05/24 11:24 |
| MFL-AM04-012624-HM | 4020650-08 | Air | 01/26/24 23:59 | 02/05/24 11:24 |
| MFL-FB01-012624-HM | 4020650-09 | Air | 01/26/24 00:00 | 02/05/24 11:24 |
| MFL-AM01-012724-HM | 4020650-10 | Air | 01/27/24 23:59 | 02/05/24 11:24 |
| MFL-AM02-012724-HM | 4020650-11 | Air | 01/27/24 23:59 | 02/05/24 11:24 |
| MFL-AM03-012724-HM | 4020650-12 | Air | 01/27/24 23:59 | 02/05/24 11:24 |
| MFL-AM04-012724-HM | 4020650-13 | Air | 01/27/24 23:59 | 02/05/24 11:24 |
| MFL-AM01-012824-HM | 4020650-14 | Air | 01/28/24 23:59 | 02/05/24 11:24 |
| MFL-AM02-012824-HM | 4020650-15 | Air | 01/28/24 23:59 | 02/05/24 11:24 |
| MFL-AM03-012824-HM | 4020650-16 | Air | 01/28/24 23:59 | 02/05/24 11:24 |
| MFL-AM04-012824-HM | 4020650-17 | Air | 01/28/24 23:59 | 02/05/24 11:24 |
| MFL-FB01-012824-HM | 4020650-18 | Air | 01/28/24 00:00 | 02/05/24 11:24 |
| MFL-AM01-012924-HM | 4020650-19 | Air | 01/29/24 23:59 | 02/05/24 11:24 |
| MFL-AM02-012924-HM | 4020650-20 | Air | 01/29/24 23:59 | 02/05/24 11:24 |
| MFL-AM03-012924-HM | 4020650-21 | Air | 01/29/24 23:59 | 02/05/24 11:24 |



CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
1777 Sentry Pkwy, Bldg 12
Blue Bell, PA 19422
ATTN: Ms. Chelsea Saber

FILE #: 4205.00.003.001
REPORTED: 02/13/24 16:40
SUBMITTED: 02/05/24
AQS SITE CODE:

| | | | | | |
|------------------------------|-------------|-----|----------------|-------------------|---------------|
| PHONE: (703) 885-5495 | FAX: | | | SITE CODE: | Lahaina fires |
| MFL-AM04-012924-HM | 4020650-22 | Air | 01/29/24 23:59 | 02/05/24 11:24 | |
| MFL-AM01-013024-HM | 4020650-23 | Air | 01/30/24 23:59 | 02/05/24 11:24 | |
| MFL-AM02-013024-HM | 4020650-24 | Air | 01/30/24 23:59 | 02/05/24 11:24 | |
| MFL-AM03-013024-HM | 4020650-25 | Air | 01/30/24 23:59 | 02/05/24 11:24 | |
| MFL-AM04-013024-HM | 4020650-26 | Air | 01/30/24 23:59 | 02/05/24 11:24 | |
| MFL-FB01-013024-HM | 4020650-27 | Air | 01/30/24 23:59 | 02/05/24 11:24 | |
| MFL-AM01-013124-HM | 4020650-28 | Air | 01/31/24 23:59 | 02/05/24 11:24 | |
| MFL-AM02-013124-HM/MS/I | 4020650-29 | Air | 01/31/24 23:59 | 02/05/24 11:24 | |
| MFL-AM03-013124-HM | 4020650-30 | Air | 01/31/24 23:59 | 02/05/24 11:24 | |
| MFL-AM04-013124-HM | 4020650-31 | Air | 01/31/24 23:59 | 02/05/24 11:24 | |



CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM01-012524-HM **Lab ID:** 4020650-01 **Sampled:** 01/25/24 23:59
Matrix: Air **Sample Volume:** 1816.472 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/07/24 21:33
Comments: TetraTech Q9534264

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|--------------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.462 | SL | 0.0346 | |
| Arsenic | 7440-38-2 | 5.72 | | 0.00839 | |
| Barium | 7440-39-3 | 14.1 | | 0.958 | |
| Beryllium | 7440-41-7 | 0.0342 | | 0.00287 | |
| Cadmium | 7440-43-9 | 0.0585 | U | 0.0710 | |
| Chromium | 7440-47-3 | 8.06 | | 1.98 | |
| Cobalt | 7440-48-4 | 2.48 | | 0.0391 | |
| Copper | 7440-50-8 | 47.8 | | 2.36 | |
| Lead | 7439-92-1 | 4.01 | | 0.192 | |
| Manganese | 7439-96-5 | 45.6 | | 1.69 | |
| Molybdenum | 7439-98-7 | 1.39 | | 0.322 | |
| Nickel | 7440-02-0 | 12.3 | | 0.584 | |
| Selenium | 7782-49-2 | 0.495 | | 0.00803 | |
| Thallium | 7440-28-0 | 0.00195 | B, QB-01, QB-04 | 5.28E-4 | |
| Vanadium | 7440-62-2 | 3.55 | | 0.0474 | |
| Zinc | 7440-66-6 | 87.6 | | 68.8 | |



CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM02-012524-HM **Lab ID:** 4020650-02 **Sampled:** 01/25/24 23:59
Matrix: Air **Sample Volume:** 2090.254 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/07/24 21:48
Comments: TetraTech Q9534261

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|-----------------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0427 | SL | 0.0300 | |
| Arsenic | 7440-38-2 | 0.272 | | 0.00729 | |
| Barium | 7440-39-3 | 0.983 | | 0.833 | |
| Beryllium | 7440-41-7 | 0.00219 | U | 0.00249 | |
| Cadmium | 7440-43-9 | 0.00851 | U | 0.0617 | |
| Chromium | 7440-47-3 | 1.60 | U | 1.72 | |
| Cobalt | 7440-48-4 | 0.0693 | | 0.0339 | |
| Copper | 7440-50-8 | 19.9 | | 2.05 | |
| Lead | 7439-92-1 | 0.806 | | 0.167 | |
| Manganese | 7439-96-5 | 1.35 | U | 1.47 | |
| Molybdenum | 7439-98-7 | 0.582 | | 0.279 | |
| Nickel | 7440-02-0 | 0.471 | U | 0.508 | |
| Selenium | 7782-49-2 | 0.356 | | 0.00697 | |
| Thallium | 7440-28-0 | 4.16E-4 | B, QB-01, QB-04, U | 4.58E-4 | |
| Vanadium | 7440-62-2 | 0.209 | | 0.0412 | |
| Zinc | 7440-66-6 | 33.2 | U | 59.8 | |



CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM03-012524-HM **Lab ID:** 4020650-03 **Sampled:** 01/25/24 23:59
Matrix: Air **Sample Volume:** 1966.936 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/07/24 17:55
Comments: TetraTech Q9534259

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|--------------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0628 | SL | 0.0319 | |
| Arsenic | 7440-38-2 | 0.0959 | | 0.00775 | |
| Barium | 7440-39-3 | 1.75 | | 0.885 | |
| Beryllium | 7440-41-7 | 0.00633 | | 0.00265 | |
| Cadmium | 7440-43-9 | 0.00836 | U | 0.0656 | |
| Chromium | 7440-47-3 | 2.48 | | 1.83 | |
| Cobalt | 7440-48-4 | 0.234 | | 0.0361 | |
| Copper | 7440-50-8 | 45.6 | QM-07 | 2.18 | |
| Lead | 7439-92-1 | 1.36 | | 0.177 | |
| Manganese | 7439-96-5 | 3.83 | | 1.56 | |
| Molybdenum | 7439-98-7 | 1.28 | | 0.297 | |
| Nickel | 7440-02-0 | 1.06 | | 0.539 | |
| Selenium | 7782-49-2 | 0.335 | SRD-01 | 0.00741 | |
| Thallium | 7440-28-0 | 6.24E-4 | B, QB-01, QB-04 | 4.87E-4 | |
| Vanadium | 7440-62-2 | 0.379 | | 0.0438 | |
| Zinc | 7440-66-6 | 46.6 | QM-07, U | 63.5 | |



CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM04-012524-HM **Lab ID:** 4020650-04 **Sampled:** 01/25/24 23:59
Matrix: Air **Sample Volume:** 1913.588 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/07/24 22:04
Comments: TetraTech Q9534258

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|-----------------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0459 | SL | 0.0328 | |
| Arsenic | 7440-38-2 | 0.128 | | 0.00797 | |
| Barium | 7440-39-3 | 0.885 | U | 0.910 | |
| Beryllium | 7440-41-7 | 0.00147 | U | 0.00272 | |
| Cadmium | 7440-43-9 | 0.00808 | U | 0.0674 | |
| Chromium | 7440-47-3 | 1.36 | U | 1.88 | |
| Cobalt | 7440-48-4 | 0.0611 | | 0.0371 | |
| Copper | 7440-50-8 | 26.8 | | 2.24 | |
| Lead | 7439-92-1 | 0.375 | | 0.182 | |
| Manganese | 7439-96-5 | 0.988 | U | 1.61 | |
| Molybdenum | 7439-98-7 | 1.02 | | 0.305 | |
| Nickel | 7440-02-0 | 0.425 | U | 0.554 | |
| Selenium | 7782-49-2 | 0.310 | | 0.00762 | |
| Thallium | 7440-28-0 | 4.32E-4 | B, QB-01, QB-04, U | 5.01E-4 | |
| Vanadium | 7440-62-2 | 0.160 | | 0.0450 | |
| Zinc | 7440-66-6 | 27.8 | U | 65.3 | |



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 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM01-012624-HM **Lab ID:** 4020650-05 **Sampled:** 01/26/24 23:59
Matrix: Air **Sample Volume:** 2031.668 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/07/24 22:17
Comments: TetraTech Q9534256

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|--------------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0566 | SL | 0.0309 | |
| Arsenic | 7440-38-2 | 0.381 | | 0.00750 | |
| Barium | 7440-39-3 | 2.11 | | 0.857 | |
| Beryllium | 7440-41-7 | 0.00290 | | 0.00256 | |
| Cadmium | 7440-43-9 | 0.00857 | U | 0.0635 | |
| Chromium | 7440-47-3 | 1.48 | U | 1.77 | |
| Cobalt | 7440-48-4 | 0.129 | | 0.0349 | |
| Copper | 7440-50-8 | 20.4 | | 2.11 | |
| Lead | 7439-92-1 | 0.242 | | 0.171 | |
| Manganese | 7439-96-5 | 2.55 | | 1.51 | |
| Molybdenum | 7439-98-7 | 1.07 | | 0.287 | |
| Nickel | 7440-02-0 | 0.732 | | 0.522 | |
| Selenium | 7782-49-2 | 0.113 | | 0.00718 | |
| Thallium | 7440-28-0 | 5.63E-4 | B, QB-01, QB-04 | 4.72E-4 | |
| Vanadium | 7440-62-2 | 0.246 | | 0.0424 | |
| Zinc | 7440-66-6 | 27.8 | U | 61.5 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM02-012624-HM **Lab ID:** 4020650-06 **Sampled:** 01/26/24 23:59
Matrix: Air **Sample Volume:** 2162.914 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/07/24 23:34
Comments: TetraTech Q9534254

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|--------------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0475 | SL | 0.0290 | |
| Arsenic | 7440-38-2 | 0.258 | | 0.00705 | |
| Barium | 7440-39-3 | 1.29 | | 0.805 | |
| Beryllium | 7440-41-7 | 0.00185 | U | 0.00241 | |
| Cadmium | 7440-43-9 | 0.0451 | U | 0.0597 | |
| Chromium | 7440-47-3 | 1.40 | U | 1.66 | |
| Cobalt | 7440-48-4 | 0.122 | | 0.0328 | |
| Copper | 7440-50-8 | 15.8 | | 1.98 | |
| Lead | 7439-92-1 | 0.454 | | 0.161 | |
| Manganese | 7439-96-5 | 1.31 | U | 1.42 | |
| Molybdenum | 7439-98-7 | 1.08 | | 0.270 | |
| Nickel | 7440-02-0 | 0.471 | U | 0.490 | |
| Selenium | 7782-49-2 | 0.114 | | 0.00674 | |
| Thallium | 7440-28-0 | 9.43E-4 | B, QB-01, QB-04 | 4.43E-4 | |
| Vanadium | 7440-62-2 | 0.114 | | 0.0398 | |
| Zinc | 7440-66-6 | 25.7 | U | 57.8 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM03-012624-HM **Lab ID:** 4020650-07 **Sampled:** 01/26/24 23:59
Matrix: Air **Sample Volume:** 2039.37 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/07/24 23:48
Comments: TetraTech Q9534253

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|--------------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0620 | SL | 0.0308 | |
| Arsenic | 7440-38-2 | 0.0565 | | 0.00748 | |
| Barium | 7440-39-3 | 1.62 | | 0.854 | |
| Beryllium | 7440-41-7 | 0.00437 | | 0.00255 | |
| Cadmium | 7440-43-9 | 0.00721 | U | 0.0633 | |
| Chromium | 7440-47-3 | 1.51 | U | 1.76 | |
| Cobalt | 7440-48-4 | 0.0974 | | 0.0348 | |
| Copper | 7440-50-8 | 37.6 | | 2.10 | |
| Lead | 7439-92-1 | 0.548 | | 0.171 | |
| Manganese | 7439-96-5 | 1.63 | | 1.51 | |
| Molybdenum | 7439-98-7 | 1.71 | | 0.286 | |
| Nickel | 7440-02-0 | 0.656 | | 0.520 | |
| Selenium | 7782-49-2 | 0.115 | | 0.00715 | |
| Thallium | 7440-28-0 | 7.37E-4 | B, QB-01, QB-04 | 4.70E-4 | |
| Vanadium | 7440-62-2 | 0.173 | | 0.0422 | |
| Zinc | 7440-66-6 | 30.0 | U | 61.3 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM04-012624-HM **Lab ID:** 4020650-08 **Sampled:** 01/26/24 23:59
Matrix: Air **Sample Volume:** 1931.629 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 00:03
Comments: TetraTech Q9534251

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> |
|-------------------|-------------------|-----------------------------|--------------------|-----------------------------|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> |
| Antimony | 7440-36-0 | 0.0490 | SL | 0.0325 |
| Arsenic | 7440-38-2 | 0.131 | | 0.00789 |
| Barium | 7440-39-3 | 1.27 | | 0.901 |
| Beryllium | 7440-41-7 | 0.00180 | U | 0.00270 |
| Cadmium | 7440-43-9 | 0.00732 | U | 0.0668 |
| Chromium | 7440-47-3 | 1.45 | U | 1.86 |
| Cobalt | 7440-48-4 | 0.0478 | | 0.0367 |
| Copper | 7440-50-8 | 31.3 | | 2.22 |
| Lead | 7439-92-1 | 0.336 | | 0.180 |
| Manganese | 7439-96-5 | 0.896 | U | 1.59 |
| Molybdenum | 7439-98-7 | 1.36 | | 0.302 |
| Nickel | 7440-02-0 | 0.396 | U | 0.549 |
| Selenium | 7782-49-2 | 0.114 | | 0.00755 |
| Thallium | 7440-28-0 | 6.12E-4 | B, QB-01, QB-04 | 4.96E-4 |
| Vanadium | 7440-62-2 | 0.103 | | 0.0446 |
| Zinc | 7440-66-6 | 31.0 | U | 64.7 |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-FB01-012624-HM **Lab ID:** 4020650-09 **Sampled:** 01/26/24 00:00
Matrix: Air **Sample Volume:** 2031.668 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 00:17
Comments: TetraTech Q9534245 Field Blank

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|-----------------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0147 | SL, U | 0.0309 | |
| Arsenic | 7440-38-2 | 0.00806 | FB-01 | 0.00750 | |
| Barium | 7440-39-3 | 0.517 | U | 0.857 | |
| Beryllium | 7440-41-7 | 7.22E-4 | U | 0.00256 | |
| Cadmium | 7440-43-9 | 0.00442 | U | 0.0635 | |
| Chromium | 7440-47-3 | 1.25 | U | 1.77 | |
| Cobalt | 7440-48-4 | 0.0662 | FB-01 | 0.0349 | |
| Copper | 7440-50-8 | 3.06 | FB-01 | 2.11 | |
| Lead | 7439-92-1 | 0.132 | U | 0.171 | |
| Manganese | 7439-96-5 | 0.159 | U | 1.51 | |
| Molybdenum | 7439-98-7 | 0.191 | U | 0.287 | |
| Nickel | 7440-02-0 | 0.442 | U | 0.522 | |
| Selenium | 7782-49-2 | 0.00522 | U | 0.00718 | |
| Thallium | 7440-28-0 | 2.51E-4 | B, QB-01, QB-04, U | 4.72E-4 | |
| Vanadium | 7440-62-2 | 0.0150 | U | 0.0424 | |
| Zinc | 7440-66-6 | 24.0 | U | 61.5 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM01-012724-HM **Lab ID:** 4020650-10 **Sampled:** 01/27/24 23:59
Matrix: Air **Sample Volume:** 2026.54 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 00:31
Comments: TetraTech Q9534250

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|--------------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0677 | SL | 0.0310 | |
| Arsenic | 7440-38-2 | 0.545 | | 0.00752 | |
| Barium | 7440-39-3 | 4.01 | | 0.859 | |
| Beryllium | 7440-41-7 | 0.0103 | | 0.00257 | |
| Cadmium | 7440-43-9 | 0.0106 | U | 0.0637 | |
| Chromium | 7440-47-3 | 2.45 | | 1.77 | |
| Cobalt | 7440-48-4 | 0.698 | | 0.0350 | |
| Copper | 7440-50-8 | 34.2 | | 2.11 | |
| Lead | 7439-92-1 | 0.438 | | 0.172 | |
| Manganese | 7439-96-5 | 13.0 | | 1.52 | |
| Molybdenum | 7439-98-7 | 1.53 | | 0.288 | |
| Nickel | 7440-02-0 | 4.46 | | 0.523 | |
| Selenium | 7782-49-2 | 0.223 | | 0.00719 | |
| Thallium | 7440-28-0 | 7.11E-4 | B, QB-01, QB-04 | 4.73E-4 | |
| Vanadium | 7440-62-2 | 0.834 | | 0.0425 | |
| Zinc | 7440-66-6 | 32.0 | U | 61.7 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM02-012724-HM **Lab ID:** 4020650-11 **Sampled:** 01/27/24 23:59
Matrix: Air **Sample Volume:** 2090.36 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 00:45
Comments: TetraTech Q9534248

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> |
|-------------------|-------------------|-----------------------------|-----------------------|-----------------------------|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> |
| Antimony | 7440-36-0 | 0.0463 | SL | 0.0300 |
| Arsenic | 7440-38-2 | 0.196 | | 0.00729 |
| Barium | 7440-39-3 | 0.801 | U | 0.833 |
| Beryllium | 7440-41-7 | 0.00114 | U | 0.00249 |
| Cadmium | 7440-43-9 | 0.0297 | U | 0.0617 |
| Chromium | 7440-47-3 | 1.36 | U | 1.72 |
| Cobalt | 7440-48-4 | 0.0374 | | 0.0339 |
| Copper | 7440-50-8 | 12.4 | | 2.05 |
| Lead | 7439-92-1 | 0.196 | | 0.167 |
| Manganese | 7439-96-5 | 0.629 | U | 1.47 |
| Molybdenum | 7439-98-7 | 0.832 | | 0.279 |
| Nickel | 7440-02-0 | 0.438 | U | 0.507 |
| Selenium | 7782-49-2 | 0.215 | | 0.00697 |
| Thallium | 7440-28-0 | 4.54E-4 | B, QB-01, QB-04, U | 4.58E-4 |
| Vanadium | 7440-62-2 | 0.141 | | 0.0412 |
| Zinc | 7440-66-6 | 22.0 | U | 59.8 |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM03-012724-HM **Lab ID:** 4020650-12 **Sampled:** 01/27/24 23:59
Matrix: Air **Sample Volume:** 2018.848 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 00:58
Comments: TetraTech Q9534247

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|-----------------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0577 | SL | 0.0311 | |
| Arsenic | 7440-38-2 | 0.0610 | | 0.00755 | |
| Barium | 7440-39-3 | 1.49 | | 0.862 | |
| Beryllium | 7440-41-7 | 0.00249 | U | 0.00258 | |
| Cadmium | 7440-43-9 | 0.00579 | U | 0.0639 | |
| Chromium | 7440-47-3 | 1.35 | U | 1.78 | |
| Cobalt | 7440-48-4 | 0.0779 | | 0.0351 | |
| Copper | 7440-50-8 | 25.0 | | 2.12 | |
| Lead | 7439-92-1 | 0.191 | | 0.172 | |
| Manganese | 7439-96-5 | 1.28 | U | 1.52 | |
| Molybdenum | 7439-98-7 | 1.60 | | 0.289 | |
| Nickel | 7440-02-0 | 0.794 | | 0.525 | |
| Selenium | 7782-49-2 | 0.209 | | 0.00722 | |
| Thallium | 7440-28-0 | 4.69E-4 | B, QB-01, QB-04, U | 4.75E-4 | |
| Vanadium | 7440-62-2 | 0.190 | | 0.0426 | |
| Zinc | 7440-66-6 | 31.0 | U | 61.9 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM04-012724-HM **Lab ID:** 4020650-13 **Sampled:** 01/27/24 23:59
Matrix: Air **Sample Volume:** 1890.667 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 01:12
Comments: TetraTech Q9534246

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|-----------------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0551 | SL | 0.0332 | |
| Arsenic | 7440-38-2 | 0.227 | | 0.00806 | |
| Barium | 7440-39-3 | 1.06 | | 0.921 | |
| Beryllium | 7440-41-7 | 0.00149 | U | 0.00275 | |
| Cadmium | 7440-43-9 | 0.00714 | U | 0.0682 | |
| Chromium | 7440-47-3 | 1.38 | U | 1.90 | |
| Cobalt | 7440-48-4 | 0.0589 | | 0.0375 | |
| Copper | 7440-50-8 | 26.7 | | 2.26 | |
| Lead | 7439-92-1 | 0.456 | | 0.184 | |
| Manganese | 7439-96-5 | 0.891 | U | 1.63 | |
| Molybdenum | 7439-98-7 | 1.11 | | 0.309 | |
| Nickel | 7440-02-0 | 0.447 | U | 0.561 | |
| Selenium | 7782-49-2 | 0.204 | | 0.00771 | |
| Thallium | 7440-28-0 | 3.66E-4 | B, QB-01, QB-04, U | 5.07E-4 | |
| Vanadium | 7440-62-2 | 0.152 | | 0.0455 | |
| Zinc | 7440-66-6 | 27.0 | U | 66.1 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM01-012824-HM **Lab ID:** 4020650-14 **Sampled:** 01/28/24 23:59
Matrix: Air **Sample Volume:** 1996.114 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 01:26
Comments: TetraTech Q9534244

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|-----------------------------|--------------------|-----------------------------|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> |
| Antimony | 7440-36-0 | 0.0986 | SL | 0.0315 |
| Arsenic | 7440-38-2 | 0.749 | | 0.00764 |
| Barium | 7440-39-3 | 4.64 | | 0.872 |
| Beryllium | 7440-41-7 | 0.00833 | | 0.00261 |
| Cadmium | 7440-43-9 | 0.0208 | U | 0.0646 |
| Chromium | 7440-47-3 | 2.70 | | 1.80 |
| Cobalt | 7440-48-4 | 0.485 | | 0.0355 |
| Copper | 7440-50-8 | 48.9 | | 2.14 |
| Lead | 7439-92-1 | 1.16 | | 0.174 |
| Manganese | 7439-96-5 | 9.51 | | 1.54 |
| Molybdenum | 7439-98-7 | 1.70 | | 0.293 |
| Nickel | 7440-02-0 | 2.58 | | 0.531 |
| Selenium | 7782-49-2 | 0.399 | | 0.00730 |
| Thallium | 7440-28-0 | 7.98E-4 | B, QB-01, QB-04 | 4.80E-4 |
| Vanadium | 7440-62-2 | 0.966 | | 0.0431 |
| Zinc | 7440-66-6 | 44.8 | U | 62.6 |



CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM02-012824-HM **Lab ID:** 4020650-15 **Sampled:** 01/28/24 23:59
Matrix: Air **Sample Volume:** 2084.134 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 01:39
Comments: TetraTech Q9534243

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|--------------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0299 | SL, U | 0.0301 | |
| Arsenic | 7440-38-2 | 0.202 | | 0.00731 | |
| Barium | 7440-39-3 | 0.685 | U | 0.835 | |
| Beryllium | 7440-41-7 | 0.00157 | U | 0.00250 | |
| Cadmium | 7440-43-9 | 0.00669 | U | 0.0619 | |
| Chromium | 7440-47-3 | 1.18 | U | 1.73 | |
| Cobalt | 7440-48-4 | 0.0571 | | 0.0340 | |
| Copper | 7440-50-8 | 6.18 | | 2.05 | |
| Lead | 7439-92-1 | 0.216 | | 0.167 | |
| Manganese | 7439-96-5 | 1.18 | U | 1.48 | |
| Molybdenum | 7439-98-7 | 0.444 | | 0.280 | |
| Nickel | 7440-02-0 | 0.373 | U | 0.509 | |
| Selenium | 7782-49-2 | 0.371 | | 0.00699 | |
| Thallium | 7440-28-0 | 5.13E-4 | B, QB-01, QB-04 | 4.60E-4 | |
| Vanadium | 7440-62-2 | 0.252 | | 0.0413 | |
| Zinc | 7440-66-6 | 22.4 | U | 60.0 | |



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 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM03-012824-HM **Lab ID:** 4020650-16 **Sampled:** 01/28/24 23:59
Matrix: Air **Sample Volume:** 2040.225 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 19:18
Comments: TetraTech Q9534241

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|-------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0429 | SL | 0.0308 | |
| Arsenic | 7440-38-2 | 0.0830 | | 0.00747 | |
| Barium | 7440-39-3 | 1.25 | | 0.853 | |
| Beryllium | 7440-41-7 | 0.00293 | | 0.00255 | |
| Cadmium | 7440-43-9 | 0.00669 | U | 0.0632 | |
| Chromium | 7440-47-3 | 1.49 | U | 1.76 | |
| Cobalt | 7440-48-4 | 0.106 | | 0.0348 | |
| Copper | 7440-50-8 | 16.0 | | 2.10 | |
| Lead | 7439-92-1 | 0.184 | | 0.171 | |
| Manganese | 7439-96-5 | 1.79 | | 1.51 | |
| Molybdenum | 7439-98-7 | 0.797 | | 0.286 | |
| Nickel | 7440-02-0 | 0.568 | | 0.520 | |
| Selenium | 7782-49-2 | 0.357 | | 0.00715 | |
| Thallium | 7440-28-0 | 6.63E-4 | B, QB-01 | 4.70E-4 | |
| Vanadium | 7440-62-2 | 0.266 | | 0.0422 | |
| Zinc | 7440-66-6 | 36.5 | U | 61.2 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM04-012824-HM **Lab ID:** 4020650-17 **Sampled:** 01/28/24 23:59
Matrix: Air **Sample Volume:** 1904.321 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 19:32
Comments: TetraTech Q9534240

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|-------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0390 | SL | 0.0330 | |
| Arsenic | 7440-38-2 | 0.361 | | 0.00801 | |
| Barium | 7440-39-3 | 0.913 | U | 0.914 | |
| Beryllium | 7440-41-7 | 0.00185 | U | 0.00273 | |
| Cadmium | 7440-43-9 | 0.00710 | U | 0.0678 | |
| Chromium | 7440-47-3 | 1.46 | U | 1.89 | |
| Cobalt | 7440-48-4 | 0.0674 | | 0.0373 | |
| Copper | 7440-50-8 | 18.3 | | 2.25 | |
| Lead | 7439-92-1 | 0.416 | | 0.183 | |
| Manganese | 7439-96-5 | 1.41 | U | 1.61 | |
| Molybdenum | 7439-98-7 | 0.965 | | 0.307 | |
| Nickel | 7440-02-0 | 0.399 | U | 0.557 | |
| Selenium | 7782-49-2 | 0.348 | | 0.00766 | |
| Thallium | 7440-28-0 | 6.51E-4 | B, QB-01 | 5.03E-4 | |
| Vanadium | 7440-62-2 | 0.250 | | 0.0452 | |
| Zinc | 7440-66-6 | 36.3 | U | 65.6 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-FB01-012824-HM **Lab ID:** 4020650-18 **Sampled:** 01/28/24 00:00
Matrix: Air **Sample Volume:** 1996.114 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 19:46
Comments: TetraTech Q9534234 Field Blank

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|-------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.00664 | SL, U | 0.0315 | |
| Arsenic | 7440-38-2 | 0.00358 | U | 0.00764 | |
| Barium | 7440-39-3 | 0.555 | U | 0.872 | |
| Beryllium | 7440-41-7 | 0.00109 | U | 0.00261 | |
| Cadmium | 7440-43-9 | 0.00208 | U | 0.0646 | |
| Chromium | 7440-47-3 | 1.47 | U | 1.80 | |
| Cobalt | 7440-48-4 | 0.0203 | U | 0.0355 | |
| Copper | 7440-50-8 | 0.839 | U | 2.14 | |
| Lead | 7439-92-1 | 0.0791 | U | 0.174 | |
| Manganese | 7439-96-5 | 0.125 | U | 1.54 | |
| Molybdenum | 7439-98-7 | 0.242 | U | 0.293 | |
| Nickel | 7440-02-0 | 0.297 | U | 0.531 | |
| Selenium | 7782-49-2 | 0.00640 | U | 0.00730 | |
| Thallium | 7440-28-0 | 2.26E-4 | B, QB-01, U | 4.80E-4 | |
| Vanadium | 7440-62-2 | 0.0117 | U | 0.0431 | |
| Zinc | 7440-66-6 | 21.4 | U | 62.6 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM01-012924-HM **Lab ID:** 4020650-19 **Sampled:** 01/29/24 23:59
Matrix: Air **Sample Volume:** 1999.456 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 19:59
Comments: TetraTech Q9534239

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|-------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.101 | SL | 0.0314 | |
| Arsenic | 7440-38-2 | 1.66 | | 0.00762 | |
| Barium | 7440-39-3 | 5.48 | | 0.871 | |
| Beryllium | 7440-41-7 | 0.0187 | | 0.00260 | |
| Cadmium | 7440-43-9 | 0.0258 | U | 0.0645 | |
| Chromium | 7440-47-3 | 4.48 | | 1.80 | |
| Cobalt | 7440-48-4 | 0.986 | | 0.0355 | |
| Copper | 7440-50-8 | 36.6 | | 2.14 | |
| Lead | 7439-92-1 | 1.12 | | 0.174 | |
| Manganese | 7439-96-5 | 19.5 | | 1.54 | |
| Molybdenum | 7439-98-7 | 1.57 | | 0.292 | |
| Nickel | 7440-02-0 | 4.75 | | 0.531 | |
| Selenium | 7782-49-2 | 0.424 | | 0.00729 | |
| Thallium | 7440-28-0 | 0.00110 | B, QB-01 | 4.79E-4 | |
| Vanadium | 7440-62-2 | 2.08 | | 0.0430 | |
| Zinc | 7440-66-6 | 49.1 | U | 62.5 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM02-012924-HM **Lab ID:** 4020650-20 **Sampled:** 01/29/24 23:59
Matrix: Air **Sample Volume:** 2082.122 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 20:14
Comments: TetraTech Q9534238

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|-------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0310 | SL | 0.0302 | |
| Arsenic | 7440-38-2 | 0.154 | | 0.00732 | |
| Barium | 7440-39-3 | 0.776 | U | 0.836 | |
| Beryllium | 7440-41-7 | 0.00120 | U | 0.00250 | |
| Cadmium | 7440-43-9 | 0.00529 | U | 0.0620 | |
| Chromium | 7440-47-3 | 1.46 | U | 1.73 | |
| Cobalt | 7440-48-4 | 0.0478 | | 0.0341 | |
| Copper | 7440-50-8 | 7.36 | | 2.06 | |
| Lead | 7439-92-1 | 0.202 | | 0.167 | |
| Manganese | 7439-96-5 | 0.780 | U | 1.48 | |
| Molybdenum | 7439-98-7 | 0.442 | | 0.281 | |
| Nickel | 7440-02-0 | 0.459 | U | 0.509 | |
| Selenium | 7782-49-2 | 0.312 | | 0.00700 | |
| Thallium | 7440-28-0 | 4.74E-4 | B, QB-01 | 4.60E-4 | |
| Vanadium | 7440-62-2 | 0.184 | | 0.0413 | |
| Zinc | 7440-66-6 | 27.3 | U | 60.0 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM03-012924-HM **Lab ID:** 4020650-21 **Sampled:** 01/29/24 23:59
Matrix: Air **Sample Volume:** 2031.318 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 20:28
Comments: TetraTech Q9534237

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|-----------------------------|-------------|-----------------------------|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> |
| Antimony | 7440-36-0 | 0.0532 | SL | 0.0309 |
| Arsenic | 7440-38-2 | 0.0987 | | 0.00750 |
| Barium | 7440-39-3 | 1.66 | | 0.857 |
| Beryllium | 7440-41-7 | 0.00441 | | 0.00256 |
| Cadmium | 7440-43-9 | 0.00569 | U | 0.0635 |
| Chromium | 7440-47-3 | 1.89 | | 1.77 |
| Cobalt | 7440-48-4 | 0.186 | | 0.0349 |
| Copper | 7440-50-8 | 11.2 | | 2.11 |
| Lead | 7439-92-1 | 0.308 | | 0.171 |
| Manganese | 7439-96-5 | 3.02 | | 1.51 |
| Molybdenum | 7439-98-7 | 0.478 | | 0.288 |
| Nickel | 7440-02-0 | 0.760 | | 0.522 |
| Selenium | 7782-49-2 | 0.368 | | 0.00718 |
| Thallium | 7440-28-0 | 6.04E-4 | B, QB-01 | 4.72E-4 |
| Vanadium | 7440-62-2 | 0.309 | | 0.0424 |
| Zinc | 7440-66-6 | 30.8 | U | 61.5 |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM04-012924-HM **Lab ID:** 4020650-22 **Sampled:** 01/29/24 23:59
Matrix: Air **Sample Volume:** 1889.206 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 20:42
Comments: TetraTech Q9534236

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|-------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0378 | SL | 0.0332 | |
| Arsenic | 7440-38-2 | 0.200 | | 0.00807 | |
| Barium | 7440-39-3 | 0.917 | U | 0.921 | |
| Beryllium | 7440-41-7 | 0.00171 | U | 0.00276 | |
| Cadmium | 7440-43-9 | 0.00684 | U | 0.0683 | |
| Chromium | 7440-47-3 | 1.68 | U | 1.90 | |
| Cobalt | 7440-48-4 | 0.0557 | | 0.0375 | |
| Copper | 7440-50-8 | 22.9 | | 2.26 | |
| Lead | 7439-92-1 | 0.365 | | 0.184 | |
| Manganese | 7439-96-5 | 1.20 | U | 1.63 | |
| Molybdenum | 7439-98-7 | 1.28 | | 0.309 | |
| Nickel | 7440-02-0 | 0.476 | U | 0.562 | |
| Selenium | 7782-49-2 | 0.357 | | 0.00772 | |
| Thallium | 7440-28-0 | 5.74E-4 | B, QB-01 | 5.07E-4 | |
| Vanadium | 7440-62-2 | 0.187 | | 0.0456 | |
| Zinc | 7440-66-6 | 29.3 | U | 66.1 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM01-013024-HM **Lab ID:** 4020650-23 **Sampled:** 01/30/24 23:59
Matrix: Air **Sample Volume:** 2034.232 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 20:55
Comments: TetraTech Q9534233

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|-------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0980 | SL | 0.0309 | |
| Arsenic | 7440-38-2 | 1.75 | | 0.00749 | |
| Barium | 7440-39-3 | 5.66 | | 0.856 | |
| Beryllium | 7440-41-7 | 0.0156 | | 0.00256 | |
| Cadmium | 7440-43-9 | 0.0270 | U | 0.0634 | |
| Chromium | 7440-47-3 | 4.40 | | 1.77 | |
| Cobalt | 7440-48-4 | 0.884 | | 0.0349 | |
| Copper | 7440-50-8 | 34.8 | | 2.10 | |
| Lead | 7439-92-1 | 1.06 | | 0.171 | |
| Manganese | 7439-96-5 | 18.7 | | 1.51 | |
| Molybdenum | 7439-98-7 | 1.58 | | 0.287 | |
| Nickel | 7440-02-0 | 4.87 | | 0.521 | |
| Selenium | 7782-49-2 | 0.262 | | 0.00717 | |
| Thallium | 7440-28-0 | 9.56E-4 | B, QB-01 | 4.71E-4 | |
| Vanadium | 7440-62-2 | 1.65 | | 0.0423 | |
| Zinc | 7440-66-6 | 44.3 | U | 61.4 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM02-013024-HM **Lab ID:** 4020650-24 **Sampled:** 01/30/24 23:59
Matrix: Air **Sample Volume:** 2085.883 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 22:01
Comments: TetraTech Q9534229

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|-------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0360 | SL | 0.0301 | |
| Arsenic | 7440-38-2 | 0.220 | | 0.00731 | |
| Barium | 7440-39-3 | 0.984 | | 0.835 | |
| Beryllium | 7440-41-7 | 0.00192 | U | 0.00250 | |
| Cadmium | 7440-43-9 | 0.00490 | U | 0.0619 | |
| Chromium | 7440-47-3 | 1.46 | U | 1.72 | |
| Cobalt | 7440-48-4 | 0.0467 | | 0.0340 | |
| Copper | 7440-50-8 | 15.6 | | 2.05 | |
| Lead | 7439-92-1 | 0.211 | | 0.167 | |
| Manganese | 7439-96-5 | 1.14 | U | 1.47 | |
| Molybdenum | 7439-98-7 | 1.09 | | 0.280 | |
| Nickel | 7440-02-0 | 0.454 | U | 0.509 | |
| Selenium | 7782-49-2 | 0.207 | | 0.00699 | |
| Thallium | 7440-28-0 | 4.73E-4 | B, QB-01 | 4.59E-4 | |
| Vanadium | 7440-62-2 | 0.157 | | 0.0413 | |
| Zinc | 7440-66-6 | 20.9 | U | 59.9 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM03-013024-HM **Lab ID:** 4020650-25 **Sampled:** 01/30/24 23:59
Matrix: Air **Sample Volume:** 2020.319 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 22:15
Comments: TetraTech Q9534227

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|-------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0727 | SL | 0.0311 | |
| Arsenic | 7440-38-2 | 0.0650 | | 0.00755 | |
| Barium | 7440-39-3 | 1.45 | | 0.862 | |
| Beryllium | 7440-41-7 | 0.00330 | | 0.00258 | |
| Cadmium | 7440-43-9 | 0.0175 | U | 0.0639 | |
| Chromium | 7440-47-3 | 1.77 | U | 1.78 | |
| Cobalt | 7440-48-4 | 0.112 | | 0.0351 | |
| Copper | 7440-50-8 | 27.3 | | 2.12 | |
| Lead | 7439-92-1 | 0.172 | | 0.172 | |
| Manganese | 7439-96-5 | 2.03 | | 1.52 | |
| Molybdenum | 7439-98-7 | 1.34 | | 0.289 | |
| Nickel | 7440-02-0 | 0.724 | | 0.525 | |
| Selenium | 7782-49-2 | 0.189 | | 0.00722 | |
| Thallium | 7440-28-0 | 4.64E-4 | B, QB-01, U | 4.74E-4 | |
| Vanadium | 7440-62-2 | 0.246 | | 0.0426 | |
| Zinc | 7440-66-6 | 27.2 | U | 61.8 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM04-013024-HM **Lab ID:** 4020650-26 **Sampled:** 01/30/24 23:59
Matrix: Air **Sample Volume:** 1925.203 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 22:29
Comments: TetraTech Q9534224

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|-------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0549 | SL | 0.0326 | |
| Arsenic | 7440-38-2 | 0.121 | | 0.00792 | |
| Barium | 7440-39-3 | 1.17 | | 0.904 | |
| Beryllium | 7440-41-7 | 0.00192 | U | 0.00270 | |
| Cadmium | 7440-43-9 | 0.00604 | U | 0.0670 | |
| Chromium | 7440-47-3 | 1.38 | U | 1.87 | |
| Cobalt | 7440-48-4 | 0.0646 | | 0.0368 | |
| Copper | 7440-50-8 | 17.4 | | 2.22 | |
| Lead | 7439-92-1 | 0.246 | | 0.181 | |
| Manganese | 7439-96-5 | 1.39 | U | 1.60 | |
| Molybdenum | 7439-98-7 | 1.10 | | 0.303 | |
| Nickel | 7440-02-0 | 0.468 | U | 0.551 | |
| Selenium | 7782-49-2 | 0.164 | | 0.00757 | |
| Thallium | 7440-28-0 | 3.57E-4 | B, QB-01, U | 4.98E-4 | |
| Vanadium | 7440-62-2 | 0.189 | | 0.0447 | |
| Zinc | 7440-66-6 | 22.4 | U | 64.9 | |



CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-FB01-013024-HM **Lab ID:** 4020650-27 **Sampled:** 01/30/24 23:59
Matrix: Air **Sample Volume:** 2034.232 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 22:43
Comments: TetraTech Q9534220 Field Blank

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|-------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0173 | SL, U | 0.0309 | |
| Arsenic | 7440-38-2 | 0.00627 | U | 0.00749 | |
| Barium | 7440-39-3 | 0.460 | U | 0.856 | |
| Beryllium | 7440-41-7 | 7.83E-4 | U | 0.00256 | |
| Cadmium | 7440-43-9 | 0.00891 | U | 0.0634 | |
| Chromium | 7440-47-3 | 1.41 | U | 1.77 | |
| Cobalt | 7440-48-4 | 0.0288 | U | 0.0349 | |
| Copper | 7440-50-8 | 1.01 | U | 2.10 | |
| Lead | 7439-92-1 | 0.0694 | U | 0.171 | |
| Manganese | 7439-96-5 | 0.151 | U | 1.51 | |
| Molybdenum | 7439-98-7 | 0.190 | U | 0.287 | |
| Nickel | 7440-02-0 | 0.357 | U | 0.521 | |
| Selenium | 7782-49-2 | 0.00287 | U | 0.00717 | |
| Thallium | 7440-28-0 | 1.54E-4 | B, QB-01, U | 4.71E-4 | |
| Vanadium | 7440-62-2 | 0.0170 | U | 0.0423 | |
| Zinc | 7440-66-6 | 22.3 | U | 61.4 | |



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 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM01-013124-HM **Lab ID:** 4020650-28 **Sampled:** 01/31/24 23:59
Matrix: Air **Sample Volume:** 2052.181 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 22:57
Comments: TetraTech Q9534223

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|-------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.120 | SL | 0.0306 | |
| Arsenic | 7440-38-2 | 3.10 | | 0.00743 | |
| Barium | 7440-39-3 | 3.76 | | 0.848 | |
| Beryllium | 7440-41-7 | 0.00543 | | 0.00254 | |
| Cadmium | 7440-43-9 | 0.0482 | U | 0.0629 | |
| Chromium | 7440-47-3 | 2.29 | | 1.75 | |
| Cobalt | 7440-48-4 | 0.439 | | 0.0346 | |
| Copper | 7440-50-8 | 57.3 | | 2.09 | |
| Lead | 7439-92-1 | 2.16 | | 0.170 | |
| Manganese | 7439-96-5 | 5.47 | | 1.50 | |
| Molybdenum | 7439-98-7 | 2.30 | | 0.285 | |
| Nickel | 7440-02-0 | 1.12 | | 0.517 | |
| Selenium | 7782-49-2 | 0.107 | | 0.00710 | |
| Thallium | 7440-28-0 | 0.00105 | B, QB-01 | 4.67E-4 | |
| Vanadium | 7440-62-2 | 0.503 | | 0.0419 | |
| Zinc | 7440-66-6 | 34.1 | U | 60.9 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM02-013124-HM/MS/MS **Lab ID:** 4020650-29 **Sampled:** 01/31/24 23:59
Matrix: Air **Sample Volume:** 2102.688 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 16:19
Comments: TetraTech Q9534222

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|-------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.198 | SL | 0.0299 | |
| Arsenic | 7440-38-2 | 0.335 | | 0.00725 | |
| Barium | 7440-39-3 | 5.85 | | 0.828 | |
| Beryllium | 7440-41-7 | 0.00802 | | 0.00248 | |
| Cadmium | 7440-43-9 | 0.0120 | U | 0.0614 | |
| Chromium | 7440-47-3 | 1.78 | | 1.71 | |
| Cobalt | 7440-48-4 | 0.233 | | 0.0337 | |
| Copper | 7440-50-8 | 39.8 | | 2.04 | |
| Lead | 7439-92-1 | 0.606 | | 0.166 | |
| Manganese | 7439-96-5 | 6.53 | | 1.46 | |
| Molybdenum | 7439-98-7 | 1.88 | | 0.278 | |
| Nickel | 7440-02-0 | 0.916 | | 0.504 | |
| Selenium | 7782-49-2 | 0.145 | | 0.00693 | |
| Thallium | 7440-28-0 | 7.90E-4 | B, QB-01 | 4.56E-4 | |
| Vanadium | 7440-62-2 | 0.663 | | 0.0409 | |
| Zinc | 7440-66-6 | 51.0 | U | 59.4 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM03-013124-HM **Lab ID:** 4020650-30 **Sampled:** 01/31/24 23:59
Matrix: Air **Sample Volume:** 2019.473 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 23:12
Comments: TetraTech Q9534221

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|-------------------|-------------------|-----------------------------|-------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0636 | SL | 0.0311 | |
| Arsenic | 7440-38-2 | 0.0721 | | 0.00755 | |
| Barium | 7440-39-3 | 1.89 | | 0.862 | |
| Beryllium | 7440-41-7 | 0.00665 | | 0.00258 | |
| Cadmium | 7440-43-9 | 0.00630 | U | 0.0639 | |
| Chromium | 7440-47-3 | 1.67 | U | 1.78 | |
| Cobalt | 7440-48-4 | 0.140 | | 0.0351 | |
| Copper | 7440-50-8 | 37.6 | | 2.12 | |
| Lead | 7439-92-1 | 0.160 | U | 0.172 | |
| Manganese | 7439-96-5 | 3.00 | | 1.52 | |
| Molybdenum | 7439-98-7 | 1.79 | | 0.289 | |
| Nickel | 7440-02-0 | 0.758 | | 0.525 | |
| Selenium | 7782-49-2 | 0.125 | | 0.00722 | |
| Thallium | 7440-28-0 | 3.47E-4 | B, QB-01, U | 4.75E-4 | |
| Vanadium | 7440-62-2 | 0.477 | | 0.0426 | |
| Zinc | 7440-66-6 | 22.2 | U | 61.9 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM04-013124-HM **Lab ID:** 4020650-31 **Sampled:** 01/31/24 23:59
Matrix: Air **Sample Volume:** 1939.879 m³ **Received:** 02/05/24 11:24
Filter ID: **Analysis Date:** 02/08/24 23:26
Comments: TetraTech Q9534218

Inorganics by Compendium Method IO-3.5

| <u>Analyte</u> | <u>CAS Number</u> | <u>Results</u> | | <u>MDL</u> | |
|----------------|-------------------|-----------------------------|-------------|-----------------------------|--|
| | | <u>ng/m³ Air</u> | <u>Flag</u> | <u>ng/m³ Air</u> | |
| Antimony | 7440-36-0 | 0.0890 | SL | 0.0324 | |
| Arsenic | 7440-38-2 | 0.209 | | 0.00786 | |
| Barium | 7440-39-3 | 3.00 | | 0.897 | |
| Beryllium | 7440-41-7 | 0.00541 | | 0.00268 | |
| Cadmium | 7440-43-9 | 0.00802 | U | 0.0665 | |
| Chromium | 7440-47-3 | 1.86 | | 1.85 | |
| Cobalt | 7440-48-4 | 0.195 | | 0.0366 | |
| Copper | 7440-50-8 | 22.6 | | 2.21 | |
| Lead | 7439-92-1 | 0.603 | | 0.179 | |
| Manganese | 7439-96-5 | 5.01 | | 1.59 | |
| Molybdenum | 7439-98-7 | 1.34 | | 0.301 | |
| Nickel | 7440-02-0 | 0.937 | | 0.547 | |
| Selenium | 7782-49-2 | 0.147 | | 0.00751 | |
| Thallium | 7440-28-0 | 5.09E-4 | B, QB-01 | 4.94E-4 | |
| Vanadium | 7440-62-2 | 0.681 | | 0.0444 | |
| Zinc | 7440-66-6 | 28.5 | U | 64.4 | |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402012 - B4B0704

Calibration Blank (2402012-CCB1)

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|-------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.594 | | ng/l | | | | | | | |
| Arsenic | 5.87 | | ng/l | | | | | | | |
| Barium | 1.33 | | ng/l | | | | | | | |
| Beryllium | 0.151 | | ng/l | | | | | | | |
| Cadmium | 0.216 | | ng/l | | | | | | | |
| Chromium | 3.74 | | ng/l | | | | | | | |
| Cobalt | 0.290 | | ng/l | | | | | | | |
| Copper | 83.4 | | ng/l | | | | | | | |
| Lead | 4.40 | | ng/l | | | | | | | |
| Manganese | 4.72 | | ng/l | | | | | | | |
| Molybdenum | 8.95 | | ng/l | | | | | | | |
| Nickel | -1.19 | | ng/l | | | | | | | U |
| Selenium | 0.689 | | ng/l | | | | | | | |
| Thallium | 1.44 | | ng/l | | | | | | | |
| Vanadium | -64.5 | | ng/l | | | | | | | U |
| Zinc | -30.6 | | ng/l | | | | | | | U |

Calibration Blank (2402012-CCB2)

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|-------|--|------|--|--|--|--|--|--|-------|
| Antimony | 1.85 | | ng/l | | | | | | | |
| Arsenic | 12.5 | | ng/l | | | | | | | |
| Barium | 13.2 | | ng/l | | | | | | | |
| Beryllium | 0.472 | | ng/l | | | | | | | |
| Cadmium | 0.736 | | ng/l | | | | | | | |
| Chromium | 16.4 | | ng/l | | | | | | | |
| Cobalt | 2.13 | | ng/l | | | | | | | |
| Copper | 108 | | ng/l | | | | | | | |
| Lead | 11.0 | | ng/l | | | | | | | |
| Manganese | 25.5 | | ng/l | | | | | | | |
| Molybdenum | 11.6 | | ng/l | | | | | | | |
| Nickel | 3.61 | | ng/l | | | | | | | |
| Selenium | 19.0 | | ng/l | | | | | | | |
| Thallium | 3.61 | | ng/l | | | | | | | QB-04 |
| Vanadium | -63.2 | | ng/l | | | | | | | U |
| Zinc | 58.5 | | ng/l | | | | | | | |

Calibration Blank (2402012-CCB3)

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|-----------|-------|--|------|--|--|--|--|--|--|--|
| Antimony | 1.74 | | ng/l | | | | | | | |
| Arsenic | 9.23 | | ng/l | | | | | | | |
| Barium | 9.78 | | ng/l | | | | | | | |
| Beryllium | 0.291 | | ng/l | | | | | | | |

Eastern Research Group

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 Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber
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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402012 - B4B0704

Calibration Blank (2402012-CCB3) Contin

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|-------|--|------|--|--|--|--|--|--|-------|
| Cadmium | 0.789 | | ng/l | | | | | | | |
| Chromium | 13.8 | | ng/l | | | | | | | |
| Cobalt | 1.85 | | ng/l | | | | | | | |
| Copper | 98.6 | | ng/l | | | | | | | |
| Lead | 8.46 | | ng/l | | | | | | | |
| Manganese | 24.8 | | ng/l | | | | | | | |
| Molybdenum | 9.65 | | ng/l | | | | | | | |
| Nickel | 4.16 | | ng/l | | | | | | | |
| Selenium | 9.23 | | ng/l | | | | | | | |
| Thallium | 3.46 | | ng/l | | | | | | | QB-04 |
| Vanadium | -63.6 | | ng/l | | | | | | | U |
| Zinc | 37.7 | | ng/l | | | | | | | |

Calibration Blank (2402012-CCB4)

Prepared: 02/07/24 Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|-------|--|------|--|--|--|--|--|--|-------|
| Antimony | 1.91 | | ng/l | | | | | | | |
| Arsenic | 12.5 | | ng/l | | | | | | | |
| Barium | 18.5 | | ng/l | | | | | | | |
| Beryllium | 0.483 | | ng/l | | | | | | | |
| Cadmium | 1.86 | | ng/l | | | | | | | |
| Chromium | 25.8 | | ng/l | | | | | | | |
| Cobalt | 4.03 | | ng/l | | | | | | | |
| Copper | 179 | | ng/l | | | | | | | |
| Lead | 15.8 | | ng/l | | | | | | | |
| Manganese | 43.5 | | ng/l | | | | | | | |
| Molybdenum | 12.7 | | ng/l | | | | | | | |
| Nickel | 9.95 | | ng/l | | | | | | | |
| Selenium | 5.19 | | ng/l | | | | | | | |
| Thallium | 3.99 | | ng/l | | | | | | | QB-04 |
| Vanadium | -59.7 | | ng/l | | | | | | | U |
| Zinc | 77.4 | | ng/l | | | | | | | |

Calibration Check (2402012-CCV1)

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|-----------|--------|--|------|----------|--|-----|--------|--|--|--|
| Antimony | 20100 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Arsenic | 20300 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Barium | 205000 | | ng/l | 200000 | | 103 | 90-110 | | | |
| Beryllium | 5090 | | ng/l | 5000.0 | | 102 | 90-110 | | | |
| Cadmium | 20400 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Chromium | 242000 | | ng/l | 240000 | | 101 | 90-110 | | | |
| Cobalt | 51200 | | ng/l | 50000 | | 102 | 90-110 | | | |
| Copper | 2.06E6 | | ng/l | 2.0000E6 | | 103 | 90-110 | | | |

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 1777 Sentry Pkwy, Bldg 12
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 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402012 - B4B0704

Calibration Check (2402012-CCV1) Contin

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|--------|--|------|--------|--|------|--------|--|--|--|
| Lead | 200000 | | ng/l | 200000 | | 100 | 90-110 | | | |
| Manganese | 507000 | | ng/l | 500000 | | 101 | 90-110 | | | |
| Molybdenum | 50900 | | ng/l | 50000 | | 102 | 90-110 | | | |
| Nickel | 123000 | | ng/l | 120000 | | 102 | 90-110 | | | |
| Selenium | 20400 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Thallium | 494 | | ng/l | 500.00 | | 98.7 | 90-110 | | | |
| Vanadium | 19900 | | ng/l | 20000 | | 99.5 | 90-110 | | | |
| Zinc | 505000 | | ng/l | 500000 | | 101 | 90-110 | | | |

Calibration Check (2402012-CCV2)

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 20600 | | ng/l | 20000 | | 103 | 90-110 | | | |
| Arsenic | 20200 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Barium | 204000 | | ng/l | 200000 | | 102 | 90-110 | | | |
| Beryllium | 4690 | | ng/l | 5000.0 | | 93.9 | 90-110 | | | |
| Cadmium | 20700 | | ng/l | 20000 | | 103 | 90-110 | | | |
| Chromium | 248000 | | ng/l | 240000 | | 103 | 90-110 | | | |
| Cobalt | 50600 | | ng/l | 50000 | | 101 | 90-110 | | | |
| Copper | 2.06E6 | | ng/l | 2.0000E6 | | 103 | 90-110 | | | |
| Lead | 203000 | | ng/l | 200000 | | 102 | 90-110 | | | |
| Manganese | 517000 | | ng/l | 500000 | | 103 | 90-110 | | | |
| Molybdenum | 50400 | | ng/l | 50000 | | 101 | 90-110 | | | |
| Nickel | 122000 | | ng/l | 120000 | | 101 | 90-110 | | | |
| Selenium | 20400 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Thallium | 495 | | ng/l | 500.00 | | 99.1 | 90-110 | | | |
| Vanadium | 20200 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Zinc | 511000 | | ng/l | 500000 | | 102 | 90-110 | | | |

Calibration Check (2402012-CCV3)

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 20400 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Arsenic | 20200 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Barium | 207000 | | ng/l | 200000 | | 103 | 90-110 | | | |
| Beryllium | 4670 | | ng/l | 5000.0 | | 93.3 | 90-110 | | | |
| Cadmium | 20400 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Chromium | 246000 | | ng/l | 240000 | | 102 | 90-110 | | | |
| Cobalt | 49600 | | ng/l | 50000 | | 99.2 | 90-110 | | | |
| Copper | 2.07E6 | | ng/l | 2.0000E6 | | 104 | 90-110 | | | |
| Lead | 201000 | | ng/l | 200000 | | 100 | 90-110 | | | |
| Manganese | 513000 | | ng/l | 500000 | | 103 | 90-110 | | | |
| Molybdenum | 51200 | | ng/l | 50000 | | 102 | 90-110 | | | |
| Nickel | 121000 | | ng/l | 120000 | | 101 | 90-110 | | | |

Eastern Research Group

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CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber
PHONE: (703) 885-5495 **FAX:**

FILE #: 4205.00.003.001
REPORTED: 02/13/24 16:40
SUBMITTED: 02/05/24
AQS SITE CODE:
SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402012 - B4B0704

Calibration Check (2402012-CCV3) Contin

Prepared & Analyzed: 02/07/24

| | | | | | | |
|----------|--------|--|------|--------|------|--------|
| Selenium | 20300 | | ng/l | 20000 | 102 | 90-110 |
| Thallium | 480 | | ng/l | 500.00 | 96.0 | 90-110 |
| Vanadium | 20000 | | ng/l | 20000 | 99.8 | 90-110 |
| Zinc | 508000 | | ng/l | 500000 | 102 | 90-110 |

Calibration Check (2402012-CCV4)

Prepared: 02/07/24 Analyzed: 02/08/24

| | | | | | | |
|------------|--------|--|------|----------|------|--------|
| Antimony | 20700 | | ng/l | 20000 | 103 | 90-110 |
| Arsenic | 20600 | | ng/l | 20000 | 103 | 90-110 |
| Barium | 211000 | | ng/l | 200000 | 105 | 90-110 |
| Beryllium | 4780 | | ng/l | 5000.0 | 95.6 | 90-110 |
| Cadmium | 20900 | | ng/l | 20000 | 105 | 90-110 |
| Chromium | 252000 | | ng/l | 240000 | 105 | 90-110 |
| Cobalt | 50800 | | ng/l | 50000 | 102 | 90-110 |
| Copper | 2.11E6 | | ng/l | 2.0000E6 | 106 | 90-110 |
| Lead | 205000 | | ng/l | 200000 | 102 | 90-110 |
| Manganese | 531000 | | ng/l | 500000 | 106 | 90-110 |
| Molybdenum | 52100 | | ng/l | 50000 | 104 | 90-110 |
| Nickel | 124000 | | ng/l | 120000 | 103 | 90-110 |
| Selenium | 20600 | | ng/l | 20000 | 103 | 90-110 |
| Thallium | 486 | | ng/l | 500.00 | 97.3 | 90-110 |
| Vanadium | 20300 | | ng/l | 20000 | 102 | 90-110 |
| Zinc | 520000 | | ng/l | 500000 | 104 | 90-110 |

High Cal Check (2402012-HCV1)

Prepared & Analyzed: 02/07/24

| | | | | | | |
|------------|--------|--|------|----------|------|--------|
| Antimony | 39800 | | ng/l | 40000 | 99.6 | 95-105 |
| Arsenic | 39400 | | ng/l | 40000 | 98.5 | 95-105 |
| Barium | 405000 | | ng/l | 400000 | 101 | 95-105 |
| Beryllium | 10400 | | ng/l | 10000 | 104 | 95-105 |
| Cadmium | 39200 | | ng/l | 40000 | 98.1 | 95-105 |
| Chromium | 463000 | | ng/l | 480000 | 96.5 | 95-105 |
| Cobalt | 97500 | | ng/l | 100000 | 97.5 | 95-105 |
| Copper | 3.86E6 | | ng/l | 4.0000E6 | 96.4 | 95-105 |
| Lead | 394000 | | ng/l | 400000 | 98.6 | 95-105 |
| Manganese | 972000 | | ng/l | 1.0000E6 | 97.2 | 95-105 |
| Molybdenum | 99100 | | ng/l | 100000 | 99.1 | 95-105 |
| Nickel | 232000 | | ng/l | 240000 | 96.8 | 95-105 |
| Selenium | 39500 | | ng/l | 40000 | 98.8 | 95-105 |
| Thallium | 986 | | ng/l | 1000.0 | 98.6 | 95-105 |
| Vanadium | 39500 | | ng/l | 40000 | 98.6 | 95-105 |
| Zinc | 968000 | | ng/l | 1.0000E6 | 96.8 | 95-105 |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402012 - B4B0704

Initial Cal Blank (2402012-ICB1)

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|--------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.960 | | ng/l | | | | | | | |
| Arsenic | 2.10 | | ng/l | | | | | | | |
| Barium | 1.60 | | ng/l | | | | | | | |
| Beryllium | 0.0676 | | ng/l | | | | | | | |
| Cadmium | 0.198 | | ng/l | | | | | | | |
| Chromium | 3.43 | | ng/l | | | | | | | |
| Cobalt | 0.288 | | ng/l | | | | | | | |
| Copper | 59.0 | | ng/l | | | | | | | |
| Lead | 4.89 | | ng/l | | | | | | | |
| Manganese | 8.18 | | ng/l | | | | | | | |
| Molybdenum | 6.54 | | ng/l | | | | | | | |
| Nickel | -0.111 | | ng/l | | | | | | | U |
| Selenium | 18.8 | | ng/l | | | | | | | |
| Thallium | 1.09 | | ng/l | | | | | | | |
| Vanadium | -68.1 | | ng/l | | | | | | | U |
| Zinc | -11.1 | | ng/l | | | | | | | U |

Initial Cal Check (2402012-ICV1)

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 19400 | | ng/l | 20000 | | 96.9 | 90-110 | | | |
| Arsenic | 19600 | | ng/l | 20000 | | 98.2 | 90-110 | | | |
| Barium | 198000 | | ng/l | 200000 | | 98.9 | 90-110 | | | |
| Beryllium | 5250 | | ng/l | 5000.0 | | 105 | 90-110 | | | |
| Cadmium | 20100 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Chromium | 232000 | | ng/l | 240000 | | 96.5 | 90-110 | | | |
| Cobalt | 48600 | | ng/l | 50000 | | 97.3 | 90-110 | | | |
| Copper | 1.96E6 | | ng/l | 2.0000E6 | | 97.9 | 90-110 | | | |
| Lead | 191000 | | ng/l | 200000 | | 95.3 | 90-110 | | | |
| Manganese | 472000 | | ng/l | 500000 | | 94.4 | 90-110 | | | |
| Molybdenum | 48900 | | ng/l | 50000 | | 97.7 | 90-110 | | | |
| Nickel | 116000 | | ng/l | 120000 | | 96.4 | 90-110 | | | |
| Selenium | 20500 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Thallium | 497 | | ng/l | 500.00 | | 99.3 | 90-110 | | | |
| Vanadium | 19600 | | ng/l | 20000 | | 97.8 | 90-110 | | | |
| Zinc | 490000 | | ng/l | 500000 | | 97.9 | 90-110 | | | |

Interference Check A (2402012-IFA1)

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|-----------|------|--|------|--|--|--|--------|--|--|---|
| Antimony | 0.00 | | ng/l | | | | 80-120 | | | U |
| Arsenic | 0.00 | | ng/l | | | | 80-120 | | | U |
| Barium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Beryllium | 0.00 | | ng/l | | | | 80-120 | | | U |



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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402012 - B4B0704

Interference Check A (2402012-IFA1) Coi

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|--------|--|------|--------|--|-----|--------|--|--|---|
| Cadmium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Chromium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Cobalt | 0.00 | | ng/l | | | | 80-120 | | | U |
| Copper | 0.00 | | ng/l | | | | 80-120 | | | U |
| Lead | 0.00 | | ng/l | | | | 80-120 | | | U |
| Manganese | 0.00 | | ng/l | | | | 80-120 | | | U |
| Molybdenum | 332000 | | ng/l | 300000 | | 111 | 80-120 | | | |
| Nickel | 0.00 | | ng/l | | | | 80-120 | | | U |
| Selenium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Thallium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Vanadium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Zinc | 0.00 | | ng/l | | | | 80-120 | | | U |

Interference Check B (2402012-IFB1)

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 21000 | | ng/l | 20000 | | 105 | 80-120 | | | |
| Arsenic | 20800 | | ng/l | 20000 | | 104 | 80-120 | | | |
| Barium | 212000 | | ng/l | 200000 | | 106 | 80-120 | | | |
| Beryllium | 4470 | | ng/l | 5000.0 | | 89.5 | 80-120 | | | |
| Cadmium | 20400 | | ng/l | 20000 | | 102 | 80-120 | | | |
| Chromium | 239000 | | ng/l | 240000 | | 99.4 | 80-120 | | | |
| Cobalt | 50400 | | ng/l | 50000 | | 101 | 80-120 | | | |
| Copper | 1.94E6 | | ng/l | 2.0000E6 | | 97.2 | 80-120 | | | |
| Lead | 211000 | | ng/l | 200000 | | 105 | 80-120 | | | |
| Manganese | 522000 | | ng/l | 500000 | | 104 | 80-120 | | | |
| Molybdenum | 392000 | | ng/l | 350000 | | 112 | 80-120 | | | |
| Nickel | 118000 | | ng/l | 120000 | | 98.5 | 80-120 | | | |
| Selenium | 19300 | | ng/l | 20000 | | 96.7 | 80-120 | | | |
| Thallium | 527 | | ng/l | 500.00 | | 105 | 80-120 | | | |
| Vanadium | 19600 | | ng/l | 20000 | | 97.8 | 80-120 | | | |
| Zinc | 469000 | | ng/l | 500000 | | 93.8 | 80-120 | | | |

Batch 2402018 - B4B0801

Calibration Blank (2402018-CCB1)

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|-----------|----------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.0501 | | ng/l | | | | | | | |
| Arsenic | 1.50 | | ng/l | | | | | | | |
| Barium | 1.16 | | ng/l | | | | | | | |
| Beryllium | 0.0483 | | ng/l | | | | | | | |
| Cadmium | 0.264 | | ng/l | | | | | | | |
| Chromium | 0.836 | | ng/l | | | | | | | |
| Cobalt | -0.00629 | | ng/l | | | | | | | U |

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 Blue Bell, PA 19422
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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402018 - B4B0801

Calibration Blank (2402018-CCB1) Contin

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|-------|--|------|--|--|--|--|--|--|---|
| Copper | 48.2 | | ng/l | | | | | | | |
| Lead | 1.00 | | ng/l | | | | | | | |
| Manganese | 0.440 | | ng/l | | | | | | | |
| Molybdenum | 9.64 | | ng/l | | | | | | | |
| Nickel | 1.10 | | ng/l | | | | | | | |
| Selenium | 10.8 | | ng/l | | | | | | | |
| Thallium | 1.14 | | ng/l | | | | | | | |
| Vanadium | -50.9 | | ng/l | | | | | | | U |
| Zinc | -1.95 | | ng/l | | | | | | | U |

Calibration Blank (2402018-CCB2)

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|---------|--|------|--|--|--|--|--|--|---|
| Antimony | -0.0694 | | ng/l | | | | | | | U |
| Arsenic | 2.55 | | ng/l | | | | | | | |
| Barium | -4.70 | | ng/l | | | | | | | U |
| Beryllium | -0.133 | | ng/l | | | | | | | U |
| Cadmium | -0.663 | | ng/l | | | | | | | U |
| Chromium | -4.91 | | ng/l | | | | | | | U |
| Cobalt | -1.19 | | ng/l | | | | | | | U |
| Copper | -40.5 | | ng/l | | | | | | | U |
| Lead | -4.68 | | ng/l | | | | | | | U |
| Manganese | -10.3 | | ng/l | | | | | | | U |
| Molybdenum | 1.83 | | ng/l | | | | | | | |
| Nickel | -2.28 | | ng/l | | | | | | | U |
| Selenium | 12.1 | | ng/l | | | | | | | |
| Thallium | 0.799 | | ng/l | | | | | | | |
| Vanadium | -54.2 | | ng/l | | | | | | | U |
| Zinc | -141 | | ng/l | | | | | | | U |

Calibration Blank (2402018-CCB3)

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|--------|--|------|--|--|--|--|--|--|---|
| Antimony | -0.245 | | ng/l | | | | | | | U |
| Arsenic | -0.117 | | ng/l | | | | | | | U |
| Barium | -4.89 | | ng/l | | | | | | | U |
| Beryllium | -0.106 | | ng/l | | | | | | | U |
| Cadmium | -0.763 | | ng/l | | | | | | | U |
| Chromium | -4.38 | | ng/l | | | | | | | U |
| Cobalt | -1.05 | | ng/l | | | | | | | U |
| Copper | -45.2 | | ng/l | | | | | | | U |
| Lead | -4.95 | | ng/l | | | | | | | U |
| Manganese | -9.67 | | ng/l | | | | | | | U |
| Molybdenum | 1.04 | | ng/l | | | | | | | |

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| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402018 - B4B0801

Calibration Blank (2402018-CCB3) Contin

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|----------|-------|--|------|--|--|--|--|--|--|---|
| Nickel | -2.32 | | ng/l | | | | | | | U |
| Selenium | 8.50 | | ng/l | | | | | | | |
| Thallium | 0.718 | | ng/l | | | | | | | |
| Vanadium | -59.7 | | ng/l | | | | | | | U |
| Zinc | -161 | | ng/l | | | | | | | U |

Calibration Blank (2402018-CCB4)

Prepared: 02/08/24 Analyzed: 02/09/24

| | | | | | | | | | | |
|------------|----------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.0376 | | ng/l | | | | | | | |
| Arsenic | 1.73 | | ng/l | | | | | | | |
| Barium | -5.19 | | ng/l | | | | | | | U |
| Beryllium | -0.00813 | | ng/l | | | | | | | U |
| Cadmium | -0.660 | | ng/l | | | | | | | U |
| Chromium | -4.27 | | ng/l | | | | | | | U |
| Cobalt | -0.945 | | ng/l | | | | | | | U |
| Copper | -29.8 | | ng/l | | | | | | | U |
| Lead | -3.93 | | ng/l | | | | | | | U |
| Manganese | -6.31 | | ng/l | | | | | | | U |
| Molybdenum | 2.14 | | ng/l | | | | | | | |
| Nickel | -2.20 | | ng/l | | | | | | | U |
| Selenium | 10.2 | | ng/l | | | | | | | |
| Thallium | 0.781 | | ng/l | | | | | | | |
| Vanadium | -59.3 | | ng/l | | | | | | | U |
| Zinc | -140 | | ng/l | | | | | | | U |

Calibration Check (2402018-CCV1)

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 19900 | | ng/l | 20000 | | 99.6 | 90-110 | | | |
| Arsenic | 20000 | | ng/l | 20000 | | 99.9 | 90-110 | | | |
| Barium | 200000 | | ng/l | 200000 | | 99.9 | 90-110 | | | |
| Beryllium | 5230 | | ng/l | 5000.0 | | 105 | 90-110 | | | |
| Cadmium | 19900 | | ng/l | 20000 | | 99.7 | 90-110 | | | |
| Chromium | 239000 | | ng/l | 240000 | | 99.6 | 90-110 | | | |
| Cobalt | 50100 | | ng/l | 50000 | | 100 | 90-110 | | | |
| Copper | 2.01E6 | | ng/l | 2.0000E6 | | 100 | 90-110 | | | |
| Lead | 197000 | | ng/l | 200000 | | 98.7 | 90-110 | | | |
| Manganese | 489000 | | ng/l | 500000 | | 97.8 | 90-110 | | | |
| Molybdenum | 48900 | | ng/l | 50000 | | 97.9 | 90-110 | | | |
| Nickel | 121000 | | ng/l | 120000 | | 100 | 90-110 | | | |
| Selenium | 20000 | | ng/l | 20000 | | 99.9 | 90-110 | | | |
| Thallium | 497 | | ng/l | 500.00 | | 99.4 | 90-110 | | | |
| Vanadium | 19400 | | ng/l | 20000 | | 97.2 | 90-110 | | | |

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| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402018 - B4B0801

Calibration Check (2402018-CCV1) Contin

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------|--------|--|------|--------|--|-----|--------|--|--|--|
| Zinc | 508000 | | ng/l | 500000 | | 102 | 90-110 | | | |
|------|--------|--|------|--------|--|-----|--------|--|--|--|

Calibration Check (2402018-CCV2)

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 19900 | | ng/l | 20000 | | 99.4 | 90-110 | | | |
| Arsenic | 20000 | | ng/l | 20000 | | 99.9 | 90-110 | | | |
| Barium | 200000 | | ng/l | 200000 | | 99.8 | 90-110 | | | |
| Beryllium | 5110 | | ng/l | 5000.0 | | 102 | 90-110 | | | |
| Cadmium | 19900 | | ng/l | 20000 | | 99.4 | 90-110 | | | |
| Chromium | 235000 | | ng/l | 240000 | | 97.8 | 90-110 | | | |
| Cobalt | 49300 | | ng/l | 50000 | | 98.6 | 90-110 | | | |
| Copper | 2.01E6 | | ng/l | 2.0000E6 | | 101 | 90-110 | | | |
| Lead | 199000 | | ng/l | 200000 | | 99.3 | 90-110 | | | |
| Manganese | 491000 | | ng/l | 500000 | | 98.2 | 90-110 | | | |
| Molybdenum | 49000 | | ng/l | 50000 | | 98.1 | 90-110 | | | |
| Nickel | 119000 | | ng/l | 120000 | | 99.5 | 90-110 | | | |
| Selenium | 20200 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Thallium | 487 | | ng/l | 500.00 | | 97.5 | 90-110 | | | |
| Vanadium | 19600 | | ng/l | 20000 | | 97.8 | 90-110 | | | |
| Zinc | 512000 | | ng/l | 500000 | | 102 | 90-110 | | | |

Calibration Check (2402018-CCV3)

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 20100 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Arsenic | 20100 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Barium | 198000 | | ng/l | 200000 | | 99.2 | 90-110 | | | |
| Beryllium | 5090 | | ng/l | 5000.0 | | 102 | 90-110 | | | |
| Cadmium | 20100 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Chromium | 250000 | | ng/l | 240000 | | 104 | 90-110 | | | |
| Cobalt | 49600 | | ng/l | 50000 | | 99.2 | 90-110 | | | |
| Copper | 2.02E6 | | ng/l | 2.0000E6 | | 101 | 90-110 | | | |
| Lead | 201000 | | ng/l | 200000 | | 100 | 90-110 | | | |
| Manganese | 495000 | | ng/l | 500000 | | 99.0 | 90-110 | | | |
| Molybdenum | 49200 | | ng/l | 50000 | | 98.4 | 90-110 | | | |
| Nickel | 120000 | | ng/l | 120000 | | 99.9 | 90-110 | | | |
| Selenium | 20300 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Thallium | 489 | | ng/l | 500.00 | | 97.8 | 90-110 | | | |
| Vanadium | 19700 | | ng/l | 20000 | | 98.3 | 90-110 | | | |
| Zinc | 517000 | | ng/l | 500000 | | 103 | 90-110 | | | |

Calibration Check (2402018-CCV4)

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|----------|-------|--|------|-------|--|-----|--------|--|--|--|
| Antimony | 20100 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Arsenic | 20100 | | ng/l | 20000 | | 100 | 90-110 | | | |

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CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402018 - B4B0801

Calibration Check (2402018-CCV4) Contin

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Barium | 199000 | | ng/l | 200000 | | 99.5 | 90-110 | | | |
| Beryllium | 4770 | | ng/l | 5000.0 | | 95.5 | 90-110 | | | |
| Cadmium | 20200 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Chromium | 239000 | | ng/l | 240000 | | 99.6 | 90-110 | | | |
| Cobalt | 49400 | | ng/l | 50000 | | 98.8 | 90-110 | | | |
| Copper | 2.02E6 | | ng/l | 2.0000E6 | | 101 | 90-110 | | | |
| Lead | 201000 | | ng/l | 200000 | | 100 | 90-110 | | | |
| Manganese | 498000 | | ng/l | 500000 | | 99.6 | 90-110 | | | |
| Molybdenum | 49200 | | ng/l | 50000 | | 98.4 | 90-110 | | | |
| Nickel | 120000 | | ng/l | 120000 | | 99.9 | 90-110 | | | |
| Selenium | 20700 | | ng/l | 20000 | | 103 | 90-110 | | | |
| Thallium | 488 | | ng/l | 500.00 | | 97.7 | 90-110 | | | |
| Vanadium | 19800 | | ng/l | 20000 | | 99.0 | 90-110 | | | |
| Zinc | 517000 | | ng/l | 500000 | | 103 | 90-110 | | | |

High Cal Check (2402018-HCV1)

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 39200 | | ng/l | 40000 | | 97.9 | 95-105 | | | |
| Arsenic | 39000 | | ng/l | 40000 | | 97.4 | 95-105 | | | |
| Barium | 388000 | | ng/l | 400000 | | 97.0 | 95-105 | | | |
| Beryllium | 9730 | | ng/l | 10000 | | 97.3 | 95-105 | | | |
| Cadmium | 39000 | | ng/l | 40000 | | 97.4 | 95-105 | | | |
| Chromium | 461000 | | ng/l | 480000 | | 96.1 | 95-105 | | | |
| Cobalt | 96300 | | ng/l | 100000 | | 96.3 | 95-105 | | | |
| Copper | 3.83E6 | | ng/l | 4.0000E6 | | 95.8 | 95-105 | | | |
| Lead | 390000 | | ng/l | 400000 | | 97.6 | 95-105 | | | |
| Manganese | 956000 | | ng/l | 1.0000E6 | | 95.6 | 95-105 | | | |
| Molybdenum | 96600 | | ng/l | 100000 | | 96.6 | 95-105 | | | |
| Nickel | 230000 | | ng/l | 240000 | | 96.0 | 95-105 | | | |
| Selenium | 39000 | | ng/l | 40000 | | 97.5 | 95-105 | | | |
| Thallium | 972 | | ng/l | 1000.0 | | 97.2 | 95-105 | | | |
| Vanadium | 38800 | | ng/l | 40000 | | 96.9 | 95-105 | | | |
| Zinc | 987000 | | ng/l | 1.0000E6 | | 98.7 | 95-105 | | | |

Initial Cal Blank (2402018-ICB1)

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|-----------|--------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.233 | | ng/l | | | | | | | |
| Arsenic | -2.33 | | ng/l | | | | | | | U |
| Barium | 0.434 | | ng/l | | | | | | | |
| Beryllium | 0.0631 | | ng/l | | | | | | | |
| Cadmium | 0.222 | | ng/l | | | | | | | |
| Chromium | 1.60 | | ng/l | | | | | | | |

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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
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 AQS SITE CODE:
 SITE CODE: Lahaina fires

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|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402018 - B4B0801

Initial Cal Blank (2402018-ICB1) Continuu

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|-------|--|------|--|--|--|--|--|--|---|
| Cobalt | 0.168 | | ng/l | | | | | | | |
| Copper | 51.8 | | ng/l | | | | | | | |
| Lead | 0.902 | | ng/l | | | | | | | |
| Manganese | 3.09 | | ng/l | | | | | | | |
| Molybdenum | 5.89 | | ng/l | | | | | | | |
| Nickel | 1.71 | | ng/l | | | | | | | |
| Selenium | 4.50 | | ng/l | | | | | | | |
| Thallium | 1.04 | | ng/l | | | | | | | |
| Vanadium | -59.8 | | ng/l | | | | | | | U |
| Zinc | -8.83 | | ng/l | | | | | | | U |

Initial Cal Check (2402018-ICV1)

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 19900 | | ng/l | 20000 | | 99.5 | 90-110 | | | |
| Arsenic | 20000 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Barium | 200000 | | ng/l | 200000 | | 99.8 | 90-110 | | | |
| Beryllium | 4980 | | ng/l | 5000.0 | | 99.5 | 90-110 | | | |
| Cadmium | 20800 | | ng/l | 20000 | | 104 | 90-110 | | | |
| Chromium | 246000 | | ng/l | 240000 | | 103 | 90-110 | | | |
| Cobalt | 49800 | | ng/l | 50000 | | 99.7 | 90-110 | | | |
| Copper | 2.01E6 | | ng/l | 2.0000E6 | | 100 | 90-110 | | | |
| Lead | 197000 | | ng/l | 200000 | | 98.7 | 90-110 | | | |
| Manganese | 485000 | | ng/l | 500000 | | 96.9 | 90-110 | | | |
| Molybdenum | 49800 | | ng/l | 50000 | | 99.7 | 90-110 | | | |
| Nickel | 119000 | | ng/l | 120000 | | 99.5 | 90-110 | | | |
| Selenium | 20700 | | ng/l | 20000 | | 104 | 90-110 | | | |
| Thallium | 512 | | ng/l | 500.00 | | 102 | 90-110 | | | |
| Vanadium | 20100 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Zinc | 514000 | | ng/l | 500000 | | 103 | 90-110 | | | |

Interference Check A (2402018-IFA1)

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|-----------|------|--|------|--|--|--|--------|--|--|---|
| Antimony | 0.00 | | ng/l | | | | 80-120 | | | U |
| Arsenic | 0.00 | | ng/l | | | | 80-120 | | | U |
| Barium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Beryllium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Cadmium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Chromium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Cobalt | 0.00 | | ng/l | | | | 80-120 | | | U |
| Copper | 0.00 | | ng/l | | | | 80-120 | | | U |
| Lead | 0.00 | | ng/l | | | | 80-120 | | | U |
| Manganese | 0.00 | | ng/l | | | | 80-120 | | | U |

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FILE #: 4205.00.003.001
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 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
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|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402018 - B4B0801

Interference Check A (2402018-IFA1) Co

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|--------|--|------|--------|--|-----|--------|--|--|---|
| Molybdenum | 301000 | | ng/l | 300000 | | 100 | 80-120 | | | |
| Nickel | 0.00 | | ng/l | | | | 80-120 | | | U |
| Selenium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Thallium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Vanadium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Zinc | 0.00 | | ng/l | | | | 80-120 | | | U |

Interference Check B (2402018-IFB1)

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 20200 | | ng/l | 20000 | | 101 | 80-120 | | | |
| Arsenic | 20200 | | ng/l | 20000 | | 101 | 80-120 | | | |
| Barium | 199000 | | ng/l | 200000 | | 99.5 | 80-120 | | | |
| Beryllium | 5300 | | ng/l | 5000.0 | | 106 | 80-120 | | | |
| Cadmium | 19600 | | ng/l | 20000 | | 97.8 | 80-120 | | | |
| Chromium | 231000 | | ng/l | 240000 | | 96.2 | 80-120 | | | |
| Cobalt | 48100 | | ng/l | 50000 | | 96.2 | 80-120 | | | |
| Copper | 1.87E6 | | ng/l | 2.0000E6 | | 93.3 | 80-120 | | | |
| Lead | 203000 | | ng/l | 200000 | | 102 | 80-120 | | | |
| Manganese | 497000 | | ng/l | 500000 | | 99.3 | 80-120 | | | |
| Molybdenum | 350000 | | ng/l | 350000 | | 100 | 80-120 | | | |
| Nickel | 113000 | | ng/l | 120000 | | 94.2 | 80-120 | | | |
| Selenium | 19100 | | ng/l | 20000 | | 95.6 | 80-120 | | | |
| Thallium | 514 | | ng/l | 500.00 | | 103 | 80-120 | | | |
| Vanadium | 18800 | | ng/l | 20000 | | 94.1 | 80-120 | | | |
| Zinc | 464000 | | ng/l | 500000 | | 92.9 | 80-120 | | | |

Batch 2402024 - B4B0801

Calibration Blank (2402024-CCB1)

Prepared & Analyzed: 02/09/24

| | | | | | | | | | | |
|------------|---------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.866 | | ng/l | | | | | | | |
| Arsenic | 0.781 | | ng/l | | | | | | | |
| Barium | -0.301 | | ng/l | | | | | | | U |
| Beryllium | -0.0319 | | ng/l | | | | | | | U |
| Cadmium | 0.0307 | | ng/l | | | | | | | |
| Chromium | 1.20 | | ng/l | | | | | | | |
| Cobalt | 0.137 | | ng/l | | | | | | | |
| Copper | 72.6 | | ng/l | | | | | | | |
| Lead | 1.57 | | ng/l | | | | | | | |
| Manganese | -0.235 | | ng/l | | | | | | | U |
| Molybdenum | 9.83 | | ng/l | | | | | | | |
| Nickel | -0.797 | | ng/l | | | | | | | U |
| Selenium | 10.0 | | ng/l | | | | | | | |

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 AQS SITE CODE:
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| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402024 - B4B0801

Calibration Blank (2402024-CCB1) Contin

Prepared & Analyzed: 02/09/24

| | | | | | | | | | | |
|----------|-------|--|------|--|--|--|--|--|--|-------|
| Thallium | 1.64 | | ng/l | | | | | | | QB-04 |
| Vanadium | -46.1 | | ng/l | | | | | | | U |
| Zinc | -7.34 | | ng/l | | | | | | | U |

Calibration Blank (2402024-CCB2)

Prepared & Analyzed: 02/09/24

| | | | | | | | | | | |
|------------|--------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.788 | | ng/l | | | | | | | |
| Arsenic | 1.32 | | ng/l | | | | | | | |
| Barium | 2.30 | | ng/l | | | | | | | |
| Beryllium | 0.176 | | ng/l | | | | | | | |
| Cadmium | 0.0546 | | ng/l | | | | | | | |
| Chromium | 3.46 | | ng/l | | | | | | | |
| Cobalt | 0.198 | | ng/l | | | | | | | |
| Copper | 24.5 | | ng/l | | | | | | | |
| Lead | 1.93 | | ng/l | | | | | | | |
| Manganese | 1.78 | | ng/l | | | | | | | |
| Molybdenum | 2.95 | | ng/l | | | | | | | |
| Nickel | 0.228 | | ng/l | | | | | | | |
| Selenium | 9.00 | | ng/l | | | | | | | |
| Thallium | 1.00 | | ng/l | | | | | | | |
| Vanadium | -48.0 | | ng/l | | | | | | | U |
| Zinc | -62.3 | | ng/l | | | | | | | U |

Calibration Blank (2402024-CCB3)

Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | | |
|------------|---------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.634 | | ng/l | | | | | | | |
| Arsenic | 3.46 | | ng/l | | | | | | | |
| Barium | 0.712 | | ng/l | | | | | | | |
| Beryllium | 0.0665 | | ng/l | | | | | | | |
| Cadmium | 0.0514 | | ng/l | | | | | | | |
| Chromium | 0.872 | | ng/l | | | | | | | |
| Cobalt | -0.0906 | | ng/l | | | | | | | U |
| Copper | 42.0 | | ng/l | | | | | | | |
| Lead | 1.52 | | ng/l | | | | | | | |
| Manganese | -0.594 | | ng/l | | | | | | | U |
| Molybdenum | 4.88 | | ng/l | | | | | | | |
| Nickel | 0.240 | | ng/l | | | | | | | |
| Selenium | 7.54 | | ng/l | | | | | | | |
| Thallium | 1.26 | | ng/l | | | | | | | |
| Vanadium | -53.6 | | ng/l | | | | | | | U |
| Zinc | -64.3 | | ng/l | | | | | | | U |

Calibration Blank (2402024-CCB4)

Prepared: 02/09/24 Analyzed: 02/10/24

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| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402024 - B4B0801

Calibration Blank (2402024-CCB4) Contin

Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | | |
|------------|--------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.521 | | ng/l | | | | | | | |
| Arsenic | -0.503 | | ng/l | | | | | | | U |
| Barium | 1.14 | | ng/l | | | | | | | |
| Beryllium | 0.0693 | | ng/l | | | | | | | |
| Cadmium | 0.0886 | | ng/l | | | | | | | |
| Chromium | 2.67 | | ng/l | | | | | | | |
| Cobalt | 0.238 | | ng/l | | | | | | | |
| Copper | 31.5 | | ng/l | | | | | | | |
| Lead | 1.81 | | ng/l | | | | | | | |
| Manganese | 0.754 | | ng/l | | | | | | | |
| Molybdenum | 3.33 | | ng/l | | | | | | | |
| Nickel | 1.02 | | ng/l | | | | | | | |
| Selenium | 5.83 | | ng/l | | | | | | | |
| Thallium | 0.888 | | ng/l | | | | | | | |
| Vanadium | -47.8 | | ng/l | | | | | | | U |
| Zinc | -52.8 | | ng/l | | | | | | | U |

Calibration Check (2402024-CCV1)

Prepared & Analyzed: 02/09/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 20200 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Arsenic | 20100 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Barium | 199000 | | ng/l | 200000 | | 99.6 | 90-110 | | | |
| Beryllium | 4790 | | ng/l | 5000.0 | | 95.8 | 90-110 | | | |
| Cadmium | 19900 | | ng/l | 20000 | | 99.6 | 90-110 | | | |
| Chromium | 234000 | | ng/l | 240000 | | 97.6 | 90-110 | | | |
| Cobalt | 50200 | | ng/l | 50000 | | 100 | 90-110 | | | |
| Copper | 2.01E6 | | ng/l | 2.0000E6 | | 100 | 90-110 | | | |
| Lead | 200000 | | ng/l | 200000 | | 100 | 90-110 | | | |
| Manganese | 492000 | | ng/l | 500000 | | 98.3 | 90-110 | | | |
| Molybdenum | 49400 | | ng/l | 50000 | | 98.7 | 90-110 | | | |
| Nickel | 120000 | | ng/l | 120000 | | 99.9 | 90-110 | | | |
| Selenium | 19800 | | ng/l | 20000 | | 99.2 | 90-110 | | | |
| Thallium | 498 | | ng/l | 500.00 | | 99.7 | 90-110 | | | |
| Vanadium | 19700 | | ng/l | 20000 | | 98.4 | 90-110 | | | |
| Zinc | 527000 | | ng/l | 500000 | | 105 | 90-110 | | | |

Calibration Check (2402024-CCV2)

Prepared & Analyzed: 02/09/24

| | | | | | | | | | | |
|-----------|--------|--|------|--------|--|------|--------|--|--|--|
| Antimony | 20100 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Arsenic | 20000 | | ng/l | 20000 | | 99.9 | 90-110 | | | |
| Barium | 201000 | | ng/l | 200000 | | 100 | 90-110 | | | |
| Beryllium | 4910 | | ng/l | 5000.0 | | 98.3 | 90-110 | | | |

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| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
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|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402024 - B4B0801

Calibration Check (2402024-CCV2) Contin

Prepared & Analyzed: 02/09/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Cadmium | 20100 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Chromium | 249000 | | ng/l | 240000 | | 104 | 90-110 | | | |
| Cobalt | 49600 | | ng/l | 50000 | | 99.1 | 90-110 | | | |
| Copper | 2.01E6 | | ng/l | 2.0000E6 | | 101 | 90-110 | | | |
| Lead | 202000 | | ng/l | 200000 | | 101 | 90-110 | | | |
| Manganese | 490000 | | ng/l | 500000 | | 98.0 | 90-110 | | | |
| Molybdenum | 50100 | | ng/l | 50000 | | 100 | 90-110 | | | |
| Nickel | 120000 | | ng/l | 120000 | | 99.7 | 90-110 | | | |
| Selenium | 20200 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Thallium | 496 | | ng/l | 500.00 | | 99.1 | 90-110 | | | |
| Vanadium | 19900 | | ng/l | 20000 | | 99.7 | 90-110 | | | |
| Zinc | 527000 | | ng/l | 500000 | | 105 | 90-110 | | | |

Calibration Check (2402024-CCV3)

Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 20400 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Arsenic | 20300 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Barium | 205000 | | ng/l | 200000 | | 102 | 90-110 | | | |
| Beryllium | 5000 | | ng/l | 5000.0 | | 100 | 90-110 | | | |
| Cadmium | 20600 | | ng/l | 20000 | | 103 | 90-110 | | | |
| Chromium | 264000 | | ng/l | 240000 | | 110 | 90-110 | | | |
| Cobalt | 50800 | | ng/l | 50000 | | 102 | 90-110 | | | |
| Copper | 2.08E6 | | ng/l | 2.0000E6 | | 104 | 90-110 | | | |
| Lead | 203000 | | ng/l | 200000 | | 102 | 90-110 | | | |
| Manganese | 501000 | | ng/l | 500000 | | 100 | 90-110 | | | |
| Molybdenum | 52000 | | ng/l | 50000 | | 104 | 90-110 | | | |
| Nickel | 122000 | | ng/l | 120000 | | 102 | 90-110 | | | |
| Selenium | 20000 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Thallium | 497 | | ng/l | 500.00 | | 99.5 | 90-110 | | | |
| Vanadium | 20300 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Zinc | 535000 | | ng/l | 500000 | | 107 | 90-110 | | | |

Calibration Check (2402024-CCV4)

Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | | |
|-----------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 20400 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Arsenic | 20200 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Barium | 197000 | | ng/l | 200000 | | 98.4 | 90-110 | | | |
| Beryllium | 4940 | | ng/l | 5000.0 | | 98.8 | 90-110 | | | |
| Cadmium | 20400 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Chromium | 250000 | | ng/l | 240000 | | 104 | 90-110 | | | |
| Cobalt | 50600 | | ng/l | 50000 | | 101 | 90-110 | | | |
| Copper | 2.09E6 | | ng/l | 2.0000E6 | | 104 | 90-110 | | | |

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CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402024 - B4B0801

Calibration Check (2402024-CCV4) Contin

Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | | |
|------------|--------|--|------|--------|--|------|--------|--|--|--|
| Lead | 203000 | | ng/l | 200000 | | 101 | 90-110 | | | |
| Manganese | 503000 | | ng/l | 500000 | | 101 | 90-110 | | | |
| Molybdenum | 49900 | | ng/l | 50000 | | 99.8 | 90-110 | | | |
| Nickel | 123000 | | ng/l | 120000 | | 102 | 90-110 | | | |
| Selenium | 20100 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Thallium | 490 | | ng/l | 500.00 | | 97.9 | 90-110 | | | |
| Vanadium | 20100 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Zinc | 535000 | | ng/l | 500000 | | 107 | 90-110 | | | |

High Cal Check (2402024-HCV1)

Prepared & Analyzed: 02/09/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 39600 | | ng/l | 40000 | | 99.1 | 95-105 | | | |
| Arsenic | 39400 | | ng/l | 40000 | | 98.4 | 95-105 | | | |
| Barium | 395000 | | ng/l | 400000 | | 98.7 | 95-105 | | | |
| Beryllium | 10300 | | ng/l | 10000 | | 103 | 95-105 | | | |
| Cadmium | 38700 | | ng/l | 40000 | | 96.9 | 95-105 | | | |
| Chromium | 458000 | | ng/l | 480000 | | 95.4 | 95-105 | | | |
| Cobalt | 96400 | | ng/l | 100000 | | 96.4 | 95-105 | | | |
| Copper | 3.82E6 | | ng/l | 4.0000E6 | | 95.4 | 95-105 | | | |
| Lead | 395000 | | ng/l | 400000 | | 98.7 | 95-105 | | | |
| Manganese | 959000 | | ng/l | 1.0000E6 | | 95.9 | 95-105 | | | |
| Molybdenum | 96500 | | ng/l | 100000 | | 96.5 | 95-105 | | | |
| Nickel | 230000 | | ng/l | 240000 | | 95.7 | 95-105 | | | |
| Selenium | 39300 | | ng/l | 40000 | | 98.2 | 95-105 | | | |
| Thallium | 995 | | ng/l | 1000.0 | | 99.5 | 95-105 | | | |
| Vanadium | 39000 | | ng/l | 40000 | | 97.4 | 95-105 | | | |
| Zinc | 1.02E6 | | ng/l | 1.0000E6 | | 102 | 95-105 | | | |

Initial Cal Blank (2402024-ICB1)

Prepared & Analyzed: 02/09/24

| | | | | | | | | | | |
|------------|--------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.646 | | ng/l | | | | | | | |
| Arsenic | -1.20 | | ng/l | | | | | | | U |
| Barium | 0.366 | | ng/l | | | | | | | |
| Beryllium | 0.0725 | | ng/l | | | | | | | |
| Cadmium | 0.114 | | ng/l | | | | | | | |
| Chromium | 0.835 | | ng/l | | | | | | | |
| Cobalt | 0.288 | | ng/l | | | | | | | |
| Copper | 77.4 | | ng/l | | | | | | | |
| Lead | 2.01 | | ng/l | | | | | | | |
| Manganese | 1.07 | | ng/l | | | | | | | |
| Molybdenum | 4.14 | | ng/l | | | | | | | |
| Nickel | 0.846 | | ng/l | | | | | | | |

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Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber
PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
REPORTED: 02/13/24 16:40
SUBMITTED: 02/05/24
AQS SITE CODE:
SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402024 - B4B0801

Initial Cal Blank (2402024-ICB1) Continuum

Prepared & Analyzed: 02/09/24

| | | | | | | | | | | |
|----------|-------|--|------|--|--|--|--|--|--|---|
| Selenium | 1.39 | | ng/l | | | | | | | |
| Thallium | 1.18 | | ng/l | | | | | | | |
| Vanadium | -50.0 | | ng/l | | | | | | | U |
| Zinc | -27.9 | | ng/l | | | | | | | U |

Initial Cal Check (2402024-ICV1)

Prepared & Analyzed: 02/09/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 19900 | | ng/l | 20000 | | 99.6 | 90-110 | | | |
| Arsenic | 20200 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Barium | 199000 | | ng/l | 200000 | | 99.5 | 90-110 | | | |
| Beryllium | 4830 | | ng/l | 5000.0 | | 96.6 | 90-110 | | | |
| Cadmium | 20600 | | ng/l | 20000 | | 103 | 90-110 | | | |
| Chromium | 247000 | | ng/l | 240000 | | 103 | 90-110 | | | |
| Cobalt | 50100 | | ng/l | 50000 | | 100 | 90-110 | | | |
| Copper | 2.02E6 | | ng/l | 2.0000E6 | | 101 | 90-110 | | | |
| Lead | 197000 | | ng/l | 200000 | | 98.7 | 90-110 | | | |
| Manganese | 485000 | | ng/l | 500000 | | 97.1 | 90-110 | | | |
| Molybdenum | 50200 | | ng/l | 50000 | | 100 | 90-110 | | | |
| Nickel | 119000 | | ng/l | 120000 | | 99.4 | 90-110 | | | |
| Selenium | 20700 | | ng/l | 20000 | | 104 | 90-110 | | | |
| Thallium | 523 | | ng/l | 500.00 | | 105 | 90-110 | | | |
| Vanadium | 20200 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Zinc | 531000 | | ng/l | 500000 | | 106 | 90-110 | | | |

Interference Check A (2402024-IFA1)

Prepared & Analyzed: 02/09/24

| | | | | | | | | | | |
|------------|--------|--|------|--------|--|-----|--------|--|--|---|
| Antimony | 0.00 | | ng/l | | | | 80-120 | | | U |
| Arsenic | 0.00 | | ng/l | | | | 80-120 | | | U |
| Barium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Beryllium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Cadmium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Chromium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Cobalt | 0.00 | | ng/l | | | | 80-120 | | | U |
| Copper | 0.00 | | ng/l | | | | 80-120 | | | U |
| Lead | 0.00 | | ng/l | | | | 80-120 | | | U |
| Manganese | 0.00 | | ng/l | | | | 80-120 | | | U |
| Molybdenum | 305000 | | ng/l | 300000 | | 102 | 80-120 | | | |
| Nickel | 0.00 | | ng/l | | | | 80-120 | | | U |
| Selenium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Thallium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Vanadium | 0.00 | | ng/l | | | | 80-120 | | | U |
| Zinc | 0.00 | | ng/l | | | | 80-120 | | | U |

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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch 2402024 - B4B0801

Interference Check B (2402024-IFB1)

Prepared & Analyzed: 02/09/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 21000 | | ng/l | 20000 | | 105 | 80-120 | | | |
| Arsenic | 20800 | | ng/l | 20000 | | 104 | 80-120 | | | |
| Barium | 205000 | | ng/l | 200000 | | 102 | 80-120 | | | |
| Beryllium | 4790 | | ng/l | 5000.0 | | 95.7 | 80-120 | | | |
| Cadmium | 20100 | | ng/l | 20000 | | 100 | 80-120 | | | |
| Chromium | 228000 | | ng/l | 240000 | | 95.1 | 80-120 | | | |
| Cobalt | 49400 | | ng/l | 50000 | | 98.8 | 80-120 | | | |
| Copper | 1.91E6 | | ng/l | 2.0000E6 | | 95.5 | 80-120 | | | |
| Lead | 208000 | | ng/l | 200000 | | 104 | 80-120 | | | |
| Manganese | 509000 | | ng/l | 500000 | | 102 | 80-120 | | | |
| Molybdenum | 357000 | | ng/l | 350000 | | 102 | 80-120 | | | |
| Nickel | 115000 | | ng/l | 120000 | | 96.1 | 80-120 | | | |
| Selenium | 19700 | | ng/l | 20000 | | 98.3 | 80-120 | | | |
| Thallium | 529 | | ng/l | 500.00 | | 106 | 80-120 | | | |
| Vanadium | 19200 | | ng/l | 20000 | | 96.2 | 80-120 | | | |
| Zinc | 490000 | | ng/l | 500000 | | 98.0 | 80-120 | | | |

Batch B4B0704 - ICP-MS Extraction

Blank (B4B0704-BLK1)

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|---------|---------|-----------------------|--|--|--|--|--|--|-----------------|
| Antimony | ND | 0.0386 | ng/m ³ Air | | | | | | | SL, U |
| Arsenic | ND | 0.00937 | ng/m ³ Air | | | | | | | U |
| Barium | ND | 1.07 | ng/m ³ Air | | | | | | | U |
| Beryllium | ND | 0.00320 | ng/m ³ Air | | | | | | | U |
| Cadmium | ND | 0.0793 | ng/m ³ Air | | | | | | | U |
| Chromium | ND | 2.21 | ng/m ³ Air | | | | | | | U |
| Cobalt | ND | 0.0436 | ng/m ³ Air | | | | | | | U |
| Copper | ND | 2.63 | ng/m ³ Air | | | | | | | U |
| Lead | ND | 0.214 | ng/m ³ Air | | | | | | | U |
| Manganese | ND | 1.89 | ng/m ³ Air | | | | | | | U |
| Molybdenum | ND | 0.359 | ng/m ³ Air | | | | | | | U |
| Nickel | ND | 0.652 | ng/m ³ Air | | | | | | | U |
| Selenium | ND | 0.00896 | ng/m ³ Air | | | | | | | U |
| Thallium | 7.20E-4 | 5.89E-4 | ng/m ³ Air | | | | | | | B, QB-01, QB-04 |
| Vanadium | ND | 0.0529 | ng/m ³ Air | | | | | | | U |
| Zinc | ND | 76.8 | ng/m ³ Air | | | | | | | U |

LCS (B4B0704-BS1)

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|----------|-------|---------|-----------------------|--------|--|------|--------|--|--|----|
| Antimony | 0.642 | 0.0386 | ng/m ³ Air | 1.3829 | | 46.4 | 80-120 | | | SL |
| Arsenic | 2.68 | 0.00937 | ng/m ³ Air | 2.7658 | | 97.0 | 80-120 | | | |

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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch B4B0704 - ICP-MS Extraction

LCS (B4B0704-BS1) Continued

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|--|------|--------|--|--|-----------------|
| Barium | 27.5 | 1.07 | ng/m ³ Air | 27.658 | | 99.3 | 80-120 | | | |
| Beryllium | 1.38 | 0.00320 | ng/m ³ Air | 1.3829 | | 99.8 | 80-120 | | | |
| Cadmium | 1.36 | 0.0793 | ng/m ³ Air | 1.3829 | | 98.5 | 80-120 | | | |
| Chromium | 15.5 | 2.21 | ng/m ³ Air | 13.829 | | 112 | 80-120 | | | |
| Cobalt | 1.39 | 0.0436 | ng/m ³ Air | 1.3829 | | 101 | 80-120 | | | |
| Copper | 28.1 | 2.63 | ng/m ³ Air | 27.658 | | 102 | 80-120 | | | |
| Lead | 13.4 | 0.214 | ng/m ³ Air | 13.829 | | 96.9 | 80-120 | | | |
| Manganese | 8.42 | 1.89 | ng/m ³ Air | 8.2975 | | 102 | 80-120 | | | |
| Molybdenum | 1.61 | 0.359 | ng/m ³ Air | 1.3829 | | 116 | 80-120 | | | |
| Nickel | 3.01 | 0.652 | ng/m ³ Air | 2.7658 | | 109 | 80-120 | | | |
| Selenium | 2.69 | 0.00896 | ng/m ³ Air | 2.7658 | | 97.1 | 80-120 | | | |
| Thallium | 0.135 | 5.89E-4 | ng/m ³ Air | 0.13829 | | 97.5 | 80-120 | | | B, QB-01, QB-04 |
| Vanadium | 2.69 | 0.0529 | ng/m ³ Air | 2.7658 | | 97.1 | 80-120 | | | |
| Zinc | 133 | 76.8 | ng/m ³ Air | 82.975 | | 160 | 80-120 | | | |

Duplicate (B4B0704-DUP1)

Source: 4020650-03

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|---------|---------|-----------------------|--|---------|--|--|-------|----|-----------------|
| Antimony | 0.0639 | 0.0319 | ng/m ³ Air | | 0.0628 | | | 1.82 | 10 | SL |
| Arsenic | 0.0862 | 0.00775 | ng/m ³ Air | | 0.0959 | | | 10.7 | 10 | |
| Barium | 1.78 | 0.885 | ng/m ³ Air | | 1.75 | | | 1.89 | 10 | |
| Beryllium | 0.00635 | 0.00265 | ng/m ³ Air | | 0.00633 | | | 0.166 | 10 | |
| Cadmium | ND | 0.0656 | ng/m ³ Air | | ND | | | | 10 | U |
| Chromium | 2.48 | 1.83 | ng/m ³ Air | | 2.48 | | | 0.340 | 10 | |
| Cobalt | 0.249 | 0.0361 | ng/m ³ Air | | 0.234 | | | 6.37 | 10 | |
| Copper | 46.0 | 2.18 | ng/m ³ Air | | 45.6 | | | 1.00 | 10 | |
| Lead | 1.40 | 0.177 | ng/m ³ Air | | 1.36 | | | 3.39 | 10 | |
| Manganese | 4.24 | 1.56 | ng/m ³ Air | | 3.83 | | | 10.1 | 10 | |
| Molybdenum | 1.35 | 0.297 | ng/m ³ Air | | 1.28 | | | 5.47 | 10 | |
| Nickel | 0.985 | 0.539 | ng/m ³ Air | | 1.06 | | | 7.78 | 10 | |
| Selenium | 0.346 | 0.00741 | ng/m ³ Air | | 0.335 | | | 3.12 | 10 | |
| Thallium | 6.89E-4 | 4.87E-4 | ng/m ³ Air | | 6.24E-4 | | | 9.88 | 10 | B, QB-01, QB-04 |
| Vanadium | 0.417 | 0.0438 | ng/m ³ Air | | 0.379 | | | 9.62 | 10 | |
| Zinc | ND | 63.5 | ng/m ³ Air | | ND | | | | 10 | U |

Duplicate (B4B0704-DUP2)

Source: 4020650-05

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|-----------|---------|---------|-----------------------|--|---------|--|--|------|----|----|
| Antimony | 0.0578 | 0.0309 | ng/m ³ Air | | 0.0566 | | | 1.99 | 10 | SL |
| Arsenic | 0.390 | 0.00750 | ng/m ³ Air | | 0.381 | | | 2.22 | 10 | |
| Barium | 2.19 | 0.857 | ng/m ³ Air | | 2.11 | | | 3.77 | 10 | |
| Beryllium | 0.00272 | 0.00256 | ng/m ³ Air | | 0.00290 | | | 6.37 | 10 | |

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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch B4B0704 - ICP-MS Extraction

Duplicate (B4B0704-DUP2) Continued Source: 4020650-05 Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|---------|---------|-----------------------|---------|--|--|--|-------|----|-----------------|
| Cadmium | ND | 0.0635 | ng/m ³ Air | ND | | | | | 10 | U |
| Chromium | ND | 1.77 | ng/m ³ Air | ND | | | | | 10 | U |
| Cobalt | 0.133 | 0.0349 | ng/m ³ Air | 0.129 | | | | 2.64 | 10 | |
| Copper | 20.7 | 2.11 | ng/m ³ Air | 20.4 | | | | 1.46 | 10 | |
| Lead | 0.245 | 0.171 | ng/m ³ Air | 0.242 | | | | 1.38 | 10 | |
| Manganese | 2.63 | 1.51 | ng/m ³ Air | 2.55 | | | | 3.03 | 10 | |
| Molybdenum | 1.11 | 0.287 | ng/m ³ Air | 1.07 | | | | 3.08 | 10 | |
| Nickel | 0.746 | 0.522 | ng/m ³ Air | 0.732 | | | | 1.94 | 10 | |
| Selenium | 0.112 | 0.00718 | ng/m ³ Air | 0.113 | | | | 0.707 | 10 | |
| Thallium | 5.23E-4 | 4.72E-4 | ng/m ³ Air | 5.63E-4 | | | | 7.35 | 10 | B, QB-01, QB-04 |
| Vanadium | 0.253 | 0.0424 | ng/m ³ Air | 0.246 | | | | 2.76 | 10 | |
| Zinc | ND | 61.5 | ng/m ³ Air | ND | | | | | 10 | U |

Matrix Spike (B4B0704-MS1) Source: 4020650-03 Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|---------|------|--------|--|--|-----------------|
| Antimony | 0.737 | 0.0319 | ng/m ³ Air | 1.1439 | 0.0628 | 59.0 | 80-120 | | | SL |
| Arsenic | 2.37 | 0.00775 | ng/m ³ Air | 2.2878 | 0.0959 | 99.4 | 80-120 | | | |
| Barium | 24.8 | 0.885 | ng/m ³ Air | 22.878 | 1.75 | 101 | 80-120 | | | |
| Beryllium | 1.13 | 0.00265 | ng/m ³ Air | 1.1439 | 0.00633 | 97.8 | 80-120 | | | |
| Cadmium | 1.18 | 0.0656 | ng/m ³ Air | 1.1439 | ND | 103 | 80-120 | | | |
| Chromium | 14.0 | 1.83 | ng/m ³ Air | 11.439 | 2.48 | 101 | 80-120 | | | |
| Cobalt | 1.38 | 0.0361 | ng/m ³ Air | 1.1439 | 0.234 | 100 | 80-120 | | | |
| Copper | 59.6 | 2.18 | ng/m ³ Air | 22.878 | 45.6 | 61.4 | 80-120 | | | QM-07 |
| Lead | 12.5 | 0.177 | ng/m ³ Air | 11.439 | 1.36 | 97.8 | 80-120 | | | |
| Manganese | 10.8 | 1.56 | ng/m ³ Air | 6.8635 | 3.83 | 102 | 80-120 | | | |
| Molybdenum | 2.46 | 0.297 | ng/m ³ Air | 1.1439 | 1.28 | 103 | 80-120 | | | |
| Nickel | 3.37 | 0.539 | ng/m ³ Air | 2.2878 | 1.06 | 101 | 80-120 | | | |
| Selenium | 2.57 | 0.00741 | ng/m ³ Air | 2.2878 | 0.335 | 97.6 | 80-120 | | | |
| Thallium | 0.115 | 4.87E-4 | ng/m ³ Air | 0.11439 | 6.24E-4 | 99.8 | 80-120 | | | B, QB-01, QB-04 |
| Vanadium | 2.62 | 0.0438 | ng/m ³ Air | 2.2878 | 0.379 | 98.0 | 80-120 | | | |
| Zinc | 108 | 63.5 | ng/m ³ Air | 68.635 | ND | 157 | 80-120 | | | |

Matrix Spike Dup (B4B0704-MSD1) Source: 4020650-03 Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|-----------|-------|---------|-----------------------|--------|---------|------|--------|-------|----|----|
| Antimony | 0.728 | 0.0319 | ng/m ³ Air | 1.1439 | 0.0628 | 58.2 | 80-120 | 1.28 | 20 | SL |
| Arsenic | 2.32 | 0.00775 | ng/m ³ Air | 2.2878 | 0.0959 | 97.2 | 80-120 | 2.13 | 20 | |
| Barium | 24.5 | 0.885 | ng/m ³ Air | 22.878 | 1.75 | 99.6 | 80-120 | 1.04 | 20 | |
| Beryllium | 1.12 | 0.00265 | ng/m ³ Air | 1.1439 | 0.00633 | 97.0 | 80-120 | 0.844 | 20 | |
| Cadmium | 1.16 | 0.0656 | ng/m ³ Air | 1.1439 | ND | 102 | 80-120 | 1.47 | 20 | |
| Chromium | 13.8 | 1.83 | ng/m ³ Air | 11.439 | 2.48 | 99.1 | 80-120 | 1.54 | 20 | |

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CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch B4B0704 - ICP-MS Extraction

Matrix Spike Dup (B4B0704-MSD1) Contisource: 4020650-03 Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|---------|------|--------|------|----|-----------------|
| Cobalt | 1.35 | 0.0361 | ng/m ³ Air | 1.1439 | 0.234 | 97.9 | 80-120 | 1.83 | 20 | |
| Copper | 51.9 | 2.18 | ng/m ³ Air | 22.878 | 45.6 | 27.5 | 80-120 | 13.9 | 20 | QM-07 |
| Lead | 12.0 | 0.177 | ng/m ³ Air | 11.439 | 1.36 | 93.1 | 80-120 | 4.44 | 20 | |
| Manganese | 10.7 | 1.56 | ng/m ³ Air | 6.8635 | 3.83 | 100 | 80-120 | 1.10 | 20 | |
| Molybdenum | 2.54 | 0.297 | ng/m ³ Air | 1.1439 | 1.28 | 110 | 80-120 | 3.10 | 20 | |
| Nickel | 3.12 | 0.539 | ng/m ³ Air | 2.2878 | 1.06 | 89.7 | 80-120 | 7.83 | 20 | |
| Selenium | 2.60 | 0.00741 | ng/m ³ Air | 2.2878 | 0.335 | 99.0 | 80-120 | 1.21 | 20 | |
| Thallium | 0.113 | 4.87E-4 | ng/m ³ Air | 0.11439 | 6.24E-4 | 98.5 | 80-120 | 1.25 | 20 | B, QB-01, QB-04 |
| Vanadium | 2.59 | 0.0438 | ng/m ³ Air | 2.2878 | 0.379 | 96.6 | 80-120 | 1.27 | 20 | |
| Zinc | 99.3 | 63.5 | ng/m ³ Air | 68.635 | ND | 145 | 80-120 | 8.20 | 20 | QM-07 |

Post Spike (B4B0704-PS1) Source: 4020650-03 Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|--------|---------|-----------------------|-----------|---------|------|--------|--|--|-----------------|
| Antimony | 0.294 | 0.0319 | ng/m ³ Air | 0.22878 | 0.0628 | 101 | 75-125 | | | SL |
| Arsenic | 1.22 | 0.00775 | ng/m ³ Air | 1.1439 | 0.0959 | 98.4 | 75-125 | | | |
| Barium | 4.03 | 0.885 | ng/m ³ Air | 2.2878 | 1.75 | 99.8 | 75-125 | | | |
| Beryllium | 0.238 | 0.00265 | ng/m ³ Air | 0.22878 | 0.00633 | 101 | 75-125 | | | |
| Cadmium | 0.125 | 0.0656 | ng/m ³ Air | 0.11439 | ND | 109 | 75-125 | | | |
| Chromium | 3.59 | 1.83 | ng/m ³ Air | 1.1439 | 2.48 | 97.1 | 75-125 | | | |
| Cobalt | 0.461 | 0.0361 | ng/m ³ Air | 0.22878 | 0.234 | 99.4 | 75-125 | | | |
| Copper | 57.6 | 2.18 | ng/m ³ Air | 11.439 | 45.6 | 105 | 75-125 | | | |
| Lead | 24.1 | 0.177 | ng/m ³ Air | 22.878 | 1.36 | 99.6 | 75-125 | | | |
| Manganese | 6.10 | 1.56 | ng/m ³ Air | 2.2878 | 3.83 | 99.1 | 75-125 | | | |
| Molybdenum | 2.40 | 0.297 | ng/m ³ Air | 1.1439 | 1.28 | 97.6 | 75-125 | | | |
| Nickel | 3.31 | 0.539 | ng/m ³ Air | 2.2878 | 1.06 | 98.1 | 75-125 | | | |
| Selenium | 1.45 | 0.00741 | ng/m ³ Air | 1.1439 | 0.335 | 97.3 | 75-125 | | | |
| Thallium | 0.0579 | 4.87E-4 | ng/m ³ Air | 5.7196E-2 | 6.24E-4 | 100 | 75-125 | | | B, QB-01, QB-04 |
| Vanadium | 1.50 | 0.0438 | ng/m ³ Air | 1.1439 | 0.379 | 98.0 | 75-125 | | | |
| Zinc | 70.4 | 63.5 | ng/m ³ Air | 22.878 | ND | 308 | 75-125 | | | |

Dilution Check (B4B0704-SRL1) Source: 4020650-03 Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|-----------|--------|--------|-----------------------|--|--------|--|--|------|----|-------|
| Antimony | ND | 0.160 | ng/m ³ Air | | ND | | | 10 | | SL, U |
| Arsenic | 0.104 | 0.0388 | ng/m ³ Air | | 0.0959 | | | 7.85 | 10 | |
| Barium | ND | 4.43 | ng/m ³ Air | | ND | | | | 10 | U |
| Beryllium | 0.0143 | 0.0132 | ng/m ³ Air | | ND | | | 77.0 | 10 | |
| Cadmium | ND | 0.328 | ng/m ³ Air | | ND | | | | 10 | U |
| Chromium | ND | 9.14 | ng/m ³ Air | | ND | | | | 10 | U |
| Cobalt | 0.237 | 0.180 | ng/m ³ Air | | 0.234 | | | 1.53 | 10 | |
| Copper | 46.2 | 10.9 | ng/m ³ Air | | 45.6 | | | 1.27 | 10 | |

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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch B4B0704 - ICP-MS Extraction

Dilution Check (B4B0704-SRL1) Continue Source: 4020650-03

Prepared & Analyzed: 02/07/24

| | | | | | | | | | | |
|------------|---------|---------|-----------------------|--|-------|--|--|-------|----|-----------------|
| Lead | 1.37 | 0.885 | ng/m ³ Air | | 1.36 | | | 0.947 | 10 | |
| Manganese | ND | 7.82 | ng/m ³ Air | | ND | | | | 10 | U |
| Molybdenum | ND | 1.48 | ng/m ³ Air | | ND | | | | 10 | U |
| Nickel | ND | 2.70 | ng/m ³ Air | | ND | | | | 10 | U |
| Selenium | 0.374 | 0.0371 | ng/m ³ Air | | 0.335 | | | 11.0 | 10 | SRD-01 |
| Thallium | 0.00443 | 0.00244 | ng/m ³ Air | | ND | | | 151 | 10 | B, QB-01, QB-04 |
| Vanadium | 0.366 | 0.219 | ng/m ³ Air | | 0.379 | | | 3.56 | 10 | |
| Zinc | ND | 318 | ng/m ³ Air | | ND | | | | 10 | U |

Batch B4B0801 - ICP-MS Extraction

Blank (B4B0801-BLK1)

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|---------|---------|-----------------------|--|--|--|--|--|--|----------|
| Antimony | ND | 0.0386 | ng/m ³ Air | | | | | | | SL, U |
| Arsenic | ND | 0.00937 | ng/m ³ Air | | | | | | | U |
| Barium | ND | 1.07 | ng/m ³ Air | | | | | | | U |
| Beryllium | ND | 0.00320 | ng/m ³ Air | | | | | | | U |
| Cadmium | ND | 0.0793 | ng/m ³ Air | | | | | | | U |
| Chromium | ND | 2.21 | ng/m ³ Air | | | | | | | U |
| Cobalt | ND | 0.0436 | ng/m ³ Air | | | | | | | U |
| Copper | ND | 2.63 | ng/m ³ Air | | | | | | | U |
| Lead | ND | 0.214 | ng/m ³ Air | | | | | | | U |
| Manganese | ND | 1.89 | ng/m ³ Air | | | | | | | U |
| Molybdenum | ND | 0.359 | ng/m ³ Air | | | | | | | U |
| Nickel | ND | 0.652 | ng/m ³ Air | | | | | | | U |
| Selenium | ND | 0.00896 | ng/m ³ Air | | | | | | | U |
| Thallium | 6.29E-4 | 5.89E-4 | ng/m ³ Air | | | | | | | B, QB-01 |
| Vanadium | ND | 0.0529 | ng/m ³ Air | | | | | | | U |
| Zinc | ND | 76.8 | ng/m ³ Air | | | | | | | U |

LCS (B4B0801-BS1)

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|-----------|-------|---------|-----------------------|--------|--|------|--------|--|--|----|
| Antimony | 0.669 | 0.0386 | ng/m ³ Air | 1.3829 | | 48.4 | 80-120 | | | SL |
| Arsenic | 2.69 | 0.00937 | ng/m ³ Air | 2.7658 | | 97.2 | 80-120 | | | |
| Barium | 27.4 | 1.07 | ng/m ³ Air | 27.658 | | 98.9 | 80-120 | | | |
| Beryllium | 1.35 | 0.00320 | ng/m ³ Air | 1.3829 | | 97.6 | 80-120 | | | |
| Cadmium | 1.36 | 0.0793 | ng/m ³ Air | 1.3829 | | 98.4 | 80-120 | | | |
| Chromium | 16.3 | 2.21 | ng/m ³ Air | 13.829 | | 118 | 80-120 | | | |
| Cobalt | 1.37 | 0.0436 | ng/m ³ Air | 1.3829 | | 99.2 | 80-120 | | | |
| Copper | 30.0 | 2.63 | ng/m ³ Air | 27.658 | | 108 | 80-120 | | | |
| Lead | 13.6 | 0.214 | ng/m ³ Air | 13.829 | | 98.0 | 80-120 | | | |
| Manganese | 8.68 | 1.89 | ng/m ³ Air | 8.2975 | | 105 | 80-120 | | | |

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FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch B4B0801 - ICP-MS Extraction

LCS (B4B0801-BS1) Continued

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|--|------|--------|--|--|----------|
| Molybdenum | 1.60 | 0.359 | ng/m ³ Air | 1.3829 | | 116 | 80-120 | | | |
| Nickel | 3.00 | 0.652 | ng/m ³ Air | 2.7658 | | 108 | 80-120 | | | |
| Selenium | 2.74 | 0.00896 | ng/m ³ Air | 2.7658 | | 98.9 | 80-120 | | | |
| Thallium | 0.133 | 5.89E-4 | ng/m ³ Air | 0.13829 | | 96.5 | 80-120 | | | B, QB-01 |
| Vanadium | 2.67 | 0.0529 | ng/m ³ Air | 2.7658 | | 96.5 | 80-120 | | | |
| Zinc | 128 | 76.8 | ng/m ³ Air | 82.975 | | 154 | 80-120 | | | |

Duplicate (B4B0801-DUP1)

Source: 4020650-29

Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|---------|---------|-----------------------|--|---------|--|--|-------|----|----------|
| Antimony | 0.203 | 0.0299 | ng/m ³ Air | | 0.198 | | | 2.85 | 10 | SL |
| Arsenic | 0.326 | 0.00725 | ng/m ³ Air | | 0.335 | | | 2.83 | 10 | |
| Barium | 5.95 | 0.828 | ng/m ³ Air | | 5.85 | | | 1.64 | 10 | |
| Beryllium | 0.00786 | 0.00248 | ng/m ³ Air | | 0.00802 | | | 2.04 | 10 | |
| Cadmium | ND | 0.0614 | ng/m ³ Air | | ND | | | | 10 | U |
| Chromium | 1.84 | 1.71 | ng/m ³ Air | | 1.78 | | | 3.42 | 10 | |
| Cobalt | 0.229 | 0.0337 | ng/m ³ Air | | 0.233 | | | 1.60 | 10 | |
| Copper | 38.7 | 2.04 | ng/m ³ Air | | 39.8 | | | 2.64 | 10 | |
| Lead | 0.610 | 0.166 | ng/m ³ Air | | 0.606 | | | 0.553 | 10 | |
| Manganese | 6.64 | 1.46 | ng/m ³ Air | | 6.53 | | | 1.56 | 10 | |
| Molybdenum | 1.84 | 0.278 | ng/m ³ Air | | 1.88 | | | 1.92 | 10 | |
| Nickel | 0.990 | 0.504 | ng/m ³ Air | | 0.916 | | | 7.79 | 10 | |
| Selenium | 0.136 | 0.00693 | ng/m ³ Air | | 0.145 | | | 6.61 | 10 | |
| Thallium | 6.71E-4 | 4.56E-4 | ng/m ³ Air | | 7.90E-4 | | | 16.3 | 10 | B, QB-01 |
| Vanadium | 0.675 | 0.0409 | ng/m ³ Air | | 0.663 | | | 1.80 | 10 | |
| Zinc | ND | 59.4 | ng/m ³ Air | | ND | | | | 10 | U |

Duplicate (B4B0801-DUP2)

Source: 4020650-19

Prepared: 02/08/24 Analyzed: 02/10/24

| | | | | | | | | | | |
|------------|---------|---------|-----------------------|--|---------|--|--|------|----|----|
| Antimony | 0.104 | 0.0314 | ng/m ³ Air | | 0.101 | | | 3.37 | 10 | SL |
| Arsenic | 1.70 | 0.00762 | ng/m ³ Air | | 1.66 | | | 2.52 | 10 | |
| Barium | 5.56 | 0.871 | ng/m ³ Air | | 5.48 | | | 1.42 | 10 | |
| Beryllium | 0.0176 | 0.00260 | ng/m ³ Air | | 0.0187 | | | 6.60 | 10 | |
| Cadmium | ND | 0.0645 | ng/m ³ Air | | ND | | | | 10 | U |
| Chromium | 4.63 | 1.80 | ng/m ³ Air | | 4.48 | | | 3.28 | 10 | |
| Cobalt | 1.02 | 0.0355 | ng/m ³ Air | | 0.986 | | | 3.49 | 10 | |
| Copper | 37.9 | 2.14 | ng/m ³ Air | | 36.6 | | | 3.35 | 10 | |
| Lead | 1.13 | 0.174 | ng/m ³ Air | | 1.12 | | | 1.27 | 10 | |
| Manganese | 20.0 | 1.54 | ng/m ³ Air | | 19.5 | | | 2.53 | 10 | |
| Molybdenum | 1.61 | 0.292 | ng/m ³ Air | | 1.57 | | | 2.85 | 10 | |
| Nickel | 4.87 | 0.531 | ng/m ³ Air | | 4.75 | | | 2.60 | 10 | |
| Selenium | 0.417 | 0.00729 | ng/m ³ Air | | 0.424 | | | 1.81 | 10 | |
| Thallium | 0.00117 | 4.79E-4 | ng/m ³ Air | | 0.00110 | | | 6.15 | 10 | |

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 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 02/13/24 16:40
 SUBMITTED: 02/05/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch B4B0801 - ICP-MS Extraction

Duplicate (B4B0801-DUP2) Continued Source: 4020650-19 Prepared: 02/08/24 Analyzed: 02/10/24

| | | | | | | | | | | |
|----------|------|--------|-----------------------|--|------|--|--|------|----|---|
| Vanadium | 2.13 | 0.0430 | ng/m ³ Air | | 2.08 | | | 2.49 | 10 | |
| Zinc | ND | 62.5 | ng/m ³ Air | | ND | | | | 10 | U |

Matrix Spike (B4B0801-MS1) Source: 4020650-29 Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|---------|------|--------|--|--|----------|
| Antimony | 0.732 | 0.0299 | ng/m ³ Air | 1.0701 | 0.198 | 49.9 | 80-120 | | | SL |
| Arsenic | 2.36 | 0.00725 | ng/m ³ Air | 2.1401 | 0.335 | 94.5 | 80-120 | | | |
| Barium | 26.7 | 0.828 | ng/m ³ Air | 21.401 | 5.85 | 97.6 | 80-120 | | | |
| Beryllium | 1.09 | 0.00248 | ng/m ³ Air | 1.0701 | 0.00802 | 101 | 80-120 | | | |
| Cadmium | 1.04 | 0.0614 | ng/m ³ Air | 1.0701 | ND | 97.5 | 80-120 | | | |
| Chromium | 12.6 | 1.71 | ng/m ³ Air | 10.701 | 1.78 | 101 | 80-120 | | | |
| Cobalt | 1.26 | 0.0337 | ng/m ³ Air | 1.0701 | 0.233 | 96.3 | 80-120 | | | |
| Copper | 57.8 | 2.04 | ng/m ³ Air | 21.401 | 39.8 | 84.1 | 80-120 | | | |
| Lead | 11.3 | 0.166 | ng/m ³ Air | 10.701 | 0.606 | 99.5 | 80-120 | | | |
| Manganese | 12.9 | 1.46 | ng/m ³ Air | 6.4204 | 6.53 | 98.7 | 80-120 | | | |
| Molybdenum | 2.88 | 0.278 | ng/m ³ Air | 1.0701 | 1.88 | 93.9 | 80-120 | | | |
| Nickel | 2.98 | 0.504 | ng/m ³ Air | 2.1401 | 0.916 | 96.4 | 80-120 | | | |
| Selenium | 2.26 | 0.00693 | ng/m ³ Air | 2.1401 | 0.145 | 98.7 | 80-120 | | | |
| Thallium | 0.105 | 4.56E-4 | ng/m ³ Air | 0.10701 | 7.90E-4 | 97.6 | 80-120 | | | B, QB-01 |
| Vanadium | 2.65 | 0.0409 | ng/m ³ Air | 2.1401 | 0.663 | 92.8 | 80-120 | | | |
| Zinc | 108 | 59.4 | ng/m ³ Air | 64.204 | ND | 168 | 80-120 | | | |

Matrix Spike Dup (B4B0801-MSD1) Source: 4020650-29 Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|---------|------|--------|-------|----|----------|
| Antimony | 0.791 | 0.0299 | ng/m ³ Air | 1.0701 | 0.198 | 55.4 | 80-120 | 7.76 | 20 | SL |
| Arsenic | 2.40 | 0.00725 | ng/m ³ Air | 2.1401 | 0.335 | 96.6 | 80-120 | 1.88 | 20 | |
| Barium | 27.4 | 0.828 | ng/m ³ Air | 21.401 | 5.85 | 100 | 80-120 | 2.23 | 20 | |
| Beryllium | 1.01 | 0.00248 | ng/m ³ Air | 1.0701 | 0.00802 | 93.5 | 80-120 | 7.56 | 20 | |
| Cadmium | 1.08 | 0.0614 | ng/m ³ Air | 1.0701 | ND | 100 | 80-120 | 3.04 | 20 | |
| Chromium | 17.3 | 1.71 | ng/m ³ Air | 10.701 | 1.78 | 145 | 80-120 | 31.4 | 20 | QM-4X |
| Cobalt | 1.32 | 0.0337 | ng/m ³ Air | 1.0701 | 0.233 | 102 | 80-120 | 4.53 | 20 | |
| Copper | 58.1 | 2.04 | ng/m ³ Air | 21.401 | 39.8 | 85.6 | 80-120 | 0.573 | 20 | |
| Lead | 11.5 | 0.166 | ng/m ³ Air | 10.701 | 0.606 | 102 | 80-120 | 1.90 | 20 | |
| Manganese | 13.3 | 1.46 | ng/m ³ Air | 6.4204 | 6.53 | 106 | 80-120 | 3.37 | 20 | |
| Molybdenum | 2.99 | 0.278 | ng/m ³ Air | 1.0701 | 1.88 | 104 | 80-120 | 3.75 | 20 | |
| Nickel | 4.96 | 0.504 | ng/m ³ Air | 2.1401 | 0.916 | 189 | 80-120 | 49.8 | 20 | QM-07 |
| Selenium | 2.29 | 0.00693 | ng/m ³ Air | 2.1401 | 0.145 | 100 | 80-120 | 1.29 | 20 | |
| Thallium | 0.106 | 4.56E-4 | ng/m ³ Air | 0.10701 | 7.90E-4 | 98.6 | 80-120 | 1.03 | 20 | B, QB-01 |
| Vanadium | 2.72 | 0.0409 | ng/m ³ Air | 2.1401 | 0.663 | 96.3 | 80-120 | 2.83 | 20 | |
| Zinc | 110 | 59.4 | ng/m ³ Air | 64.204 | ND | 171 | 80-120 | 2.22 | 20 | |

Post Spike (B4B0801-PS1) Source: 4020650-29 Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|----------|-------|--------|-----------------------|---------|-------|------|--------|--|--|----|
| Antimony | 0.409 | 0.0299 | ng/m ³ Air | 0.21401 | 0.198 | 99.0 | 75-125 | | | SL |
|----------|-------|--------|-----------------------|---------|-------|------|--------|--|--|----|

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



CERTIFICATE OF ANALYSIS

Tetra Tech, Inc.
 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422
ATTN: Ms. Chelsea Saber
PHONE: (703) 885-5495 **FAX:**

FILE #: 4205.00.003.001
REPORTED: 02/13/24 16:40
SUBMITTED: 02/05/24
AQS SITE CODE:
SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Inorganics by Compendium Method IO-3.5 - Quality Control

Batch B4B0801 - ICP-MS Extraction

Post Spike (B4B0801-PS1) Continued **Source: 4020650-29** Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|--------|---------|-----------------------|-----------|---------|------|--------|--|--|----------|
| Arsenic | 1.35 | 0.00725 | ng/m ³ Air | 1.0701 | 0.335 | 95.0 | 75-125 | | | |
| Barium | 7.87 | 0.828 | ng/m ³ Air | 2.1401 | 5.85 | 94.1 | 75-125 | | | |
| Beryllium | 0.219 | 0.00248 | ng/m ³ Air | 0.21401 | 0.00802 | 98.6 | 75-125 | | | |
| Cadmium | 0.116 | 0.0614 | ng/m ³ Air | 0.10701 | ND | 108 | 75-125 | | | |
| Chromium | 2.81 | 1.71 | ng/m ³ Air | 1.0701 | 1.78 | 96.2 | 75-125 | | | |
| Cobalt | 0.439 | 0.0337 | ng/m ³ Air | 0.21401 | 0.233 | 96.1 | 75-125 | | | |
| Copper | 50.3 | 2.04 | ng/m ³ Air | 10.701 | 39.8 | 98.2 | 75-125 | | | |
| Lead | 21.5 | 0.166 | ng/m ³ Air | 21.401 | 0.606 | 97.7 | 75-125 | | | |
| Manganese | 8.67 | 1.46 | ng/m ³ Air | 2.1401 | 6.53 | 99.7 | 75-125 | | | |
| Molybdenum | 2.88 | 0.278 | ng/m ³ Air | 1.0701 | 1.88 | 93.4 | 75-125 | | | |
| Nickel | 2.93 | 0.504 | ng/m ³ Air | 2.1401 | 0.916 | 94.2 | 75-125 | | | |
| Selenium | 1.19 | 0.00693 | ng/m ³ Air | 1.0701 | 0.145 | 97.9 | 75-125 | | | |
| Thallium | 0.0544 | 4.56E-4 | ng/m ³ Air | 5.3503E-2 | 7.90E-4 | 100 | 75-125 | | | B, QB-01 |
| Vanadium | 1.66 | 0.0409 | ng/m ³ Air | 1.0701 | 0.663 | 93.2 | 75-125 | | | |
| Zinc | 72.4 | 59.4 | ng/m ³ Air | 21.401 | ND | 338 | 75-125 | | | |

Dilution Check (B4B0801-SRL1) **Source: 4020650-29** Prepared & Analyzed: 02/08/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|--|-------|--|--|-------|----|-------------|
| Antimony | 0.200 | 0.149 | ng/m ³ Air | | 0.198 | | | 1.43 | 10 | SL |
| Arsenic | 0.334 | 0.0363 | ng/m ³ Air | | 0.335 | | | 0.328 | 10 | |
| Barium | 5.99 | 4.14 | ng/m ³ Air | | 5.85 | | | 2.25 | 10 | |
| Beryllium | ND | 0.0124 | ng/m ³ Air | | ND | | | | 10 | U |
| Cadmium | ND | 0.307 | ng/m ³ Air | | ND | | | | 10 | U |
| Chromium | ND | 8.55 | ng/m ³ Air | | ND | | | | 10 | U |
| Cobalt | 0.239 | 0.169 | ng/m ³ Air | | 0.233 | | | 2.77 | 10 | |
| Copper | 41.4 | 10.2 | ng/m ³ Air | | 39.8 | | | 4.08 | 10 | |
| Lead | ND | 0.828 | ng/m ³ Air | | ND | | | | 10 | U |
| Manganese | ND | 7.31 | ng/m ³ Air | | ND | | | | 10 | U |
| Molybdenum | 1.95 | 1.39 | ng/m ³ Air | | 1.88 | | | 3.86 | 10 | |
| Nickel | ND | 2.52 | ng/m ³ Air | | ND | | | | 10 | U |
| Selenium | 0.147 | 0.0347 | ng/m ³ Air | | 0.145 | | | 1.15 | 10 | |
| Thallium | ND | 0.00228 | ng/m ³ Air | | ND | | | | 10 | B, QB-01, U |
| Vanadium | 0.691 | 0.205 | ng/m ³ Air | | 0.663 | | | 4.21 | 10 | |
| Zinc | ND | 297 | ng/m ³ Air | | ND | | | | 10 | U |



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PHONE: (703) 885-5495 **FAX:**

FILE #: 4205.00.003.001

REPORTED: 02/13/24 16:40

SUBMITTED: 02/05/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Notes and Definitions

- U Under Detection Limit
- SRD-01 Serial dilution exceeds the control limits.
- SL The spike recovery was outside acceptance limits. Reported value may be biased low.
- QM-4X The MS/MSD recovery exceeds criteria because the parent sample concentration is greater than 4x the spike concentration.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD.
- QB-04 Analyte exceeds continuing calibration blank criteria
- QB-01 Analyte exceeds method blank criteria
- FB-01 Analyte exceeds Field Blank criteria.
- B Analyte is found in the associated blank as well as in the sample (CLP B-flag).
- ND Analyte NOT DETECTED
- NR Not Reported
- MDL Method Detection Limit
- RPD Relative Percent Difference

Note: This test is accredited under the 2016 TNI Standard.

Stage 1 Data Verification Checklist – Metals
HDOH CAB – Ambient Community Air Sampling – Lahaina
Task Order No. 23141

Reviewed by:

Kierra Johnson 2/14/2024 and Shanna Vasser 2/15/2024

Laboratory: Eastern Research Group – Morrisville, NC

Collection date(s): 1/25/2024 – 1/31/2024

Report No: 4020650

- 1. Chain of custody (CoC) documentation is present.
- 2. Sample receipt condition information is present and acceptable.
- 3. Laboratory conducting the analysis is identified.
- 4. All samples submitted to the laboratory are accounted for.
- 5. Requested analytical methods were performed.
- 6. Analysis dates are provided.
- 7. Analyte results are provided.
- 8. Result qualifiers and definitions are provided.
- 9. Result units are reported.
- 10. Requested reporting limits are present.
- 11. Method detection limits are present.
- 12. Sample collection date and time are present.
- 13. No detections in field QC blanks (lot/media blanks, field blanks, etc).

Discrepancies:

- 13. Field blank MFL-FB01-012624-HM had detections above the method detection limit.

Notes:

- 2 No sample receipt information was included.