

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

Lahaina, Maui

**2/22/2024 – 2/28/2024
[Report Updated: 3/25/2024]**

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 impact 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 show approximately 1.2 mph in a generally SSE 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 (February 22-28), WW Pump Station #4 (February 22-28), Lahaina Intermediate School (February 22-28), Lahaina Boys & Girls Club (February 22-28).

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. All asbestos results were below the Site Screening Action Level (SSAL) of 0.003 fibers/cc and less than the lab's analytical sensitivity (see Table 1). Notably, the laboratory commented "Numerous gypsum fibers present" on samples collected at all monitoring stations from February 22-28, except the samples taken at WW Pump Station #4 on February 24, at Lahaina Intermediate School on February 28, and at Lahaina Boys & Girls Club on February 26 and 28. 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 to the public. Exposure thresholds (NIOSH and OSHA) for gypsum are 5 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 (PM_{2.5} and PM₁₀) at these locations indicates these thresholds are not being approached and are orders of magnitude less than applicable gypsum exposure criteria.

As previously reported, low levels of heavy metals were detected in ambient air samples at all community sampling locations (see Table 1). Although heavy metals were detected, all concentrations were below the SSALs (see Table 1). The revisions in this report are due to incorrect calibration values used for volume calculations for select metals samples. These values have been corrected and the correct volumes and results are reflected in the most recent lab reports and attached tables.

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



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
2/22//2024-2/28/2024
[Report Updated: 3/25/2024]

| Analyte Units | Asbestos s/cc | Antimony µg/m ³ | Arsenic µg/m ³ | Barium µg/m ³ | Beryllium µg/m ³ | Cadmium µg/m ³ | Chromium µg/m ³ | Cobalt µg/m ³ | Copper µg/m ³ | Lead µg/m ³ | Manganese µg/m ³ | Molybdenum µg/m ³ | Nickel µg/m ³ | Selenium µg/m ³ | Thallium µg/m ³ | Vanadium µg/m ³ | Zinc µg/m ³ | |
|---|-------------------------------------|-------------------------------|------------------------------|-----------------------------|--------------------------------|------------------------------|-------------------------------|-----------------------------|-----------------------------|---------------------------|--------------------------------|---------------------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------|----|
| Screening Level* | 0.003 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 | |
| 2/22/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0025 | 0.000146 | 0.00101 | 0.00285 | 0.00000574 | ND | 0.00217 | 0.000223 | 0.0360 | 0.000540 | 0.00641 | 0.00156 | 0.000723 | 0.000133 | 0.000000891 | 0.000818 | ND |
| | WW Pump Station #4 (AM-02) | <0.0026 | 0.000234 | 0.000462 | 0.00455 | 0.0000125 | ND | 0.00276 | 0.000422 | 0.0231 | 0.000893 | 0.0113 | 0.00101 | 0.00193 | 0.000160 | 0.00000105 | 0.00138 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0025 | 0.000213 | 0.000712 | 0.00388 | 0.0000319 | ND | 0.00332 | 0.000528 | 0.0565 | 0.000457 | 0.0129 | 0.00229 | 0.00153 | 0.000187 | 0.00000103 | 0.00146 | ND |
| 2/23/2024 | Lahaina Boys & Girls Club (AM-04) | <0.0025 | 0.000199 | 0.000460 | 0.00286 | 0.00000726 | ND | 0.00233 | 0.000201 | 0.0193 | 0.000646 | 0.00625 | 0.00106 | 0.000930 | 0.000138 | 0.000000776 | 0.000881 | ND |
| | Leialii Hawaiian Homelands (AM-01) | <0.0025 | 0.0000359 | 0.000275 | 0.00156 | 0.00000298 | ND | 0.00181 | 0.000209 | 0.0378 | 0.000301 | 0.00274 | 0.00144 | 0.000576 | 0.00000862 | 0.000000502 | 0.000423 | ND |
| | WW Pump Station #4 (AM-02) | <0.0025 | 0.000109 | 0.000227 | 0.00419 | 0.00000811 | ND | 0.00225 | 0.000280 | 0.0217 | 0.000588 | 0.00772 | 0.00102 | 0.00118 | 0.000154 | 0.000000742 | 0.00102 | ND |
| 2/24/2024 | Lahaina Intermediate School (AM-03) | <0.0025 | 0.0000473 | 0.000319 | 0.00325 | 0.0000234 | ND | 0.00305 | 0.000424 | 0.0454 | 0.000405 | 0.00952 | 0.00219 | 0.00155 | 0.000162 | 0.000000802 | 0.00118 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0025 | 0.0000557 | 0.000180 | 0.00258 | 0.00000682 | ND | 0.00231 | 0.000194 | 0.0265 | 0.000616 | 0.00599 | 0.00122 | 0.000753 | 0.000144 | 0.000000842 | 0.000774 | ND |
| | Leialii Hawaiian Homelands (AM-01) | <0.0025 | 0.0000745 | 0.000484 | 0.0132 | 0.00000886 | ND | 0.00248 | 0.000300 | 0.0469 | 0.000632 | 0.00926 | 0.00293 | 0.00105 | 0.000143 | 0.000000895 | 0.000930 | ND |
| 2/25/2024 | WW Pump Station #4 (AM-02) | <0.0026 | 0.0000963 | 0.000237 | 0.00409 | 0.0000104 | ND | 0.00247 | 0.000321 | 0.0272 | 0.000635 | 0.00989 | 0.00158 | 0.00121 | 0.000161 | 0.00000111 | 0.00103 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0025 | ND | 0.000149 | 0.00201 | 0.0000117 | ND | 0.00227 | 0.000239 | 0.0394 | 0.000264 | 0.00654 | 0.00168 | 0.000876 | 0.000130 | 0.000000703 | 0.000741 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0026 | 0.0000741 | 0.000780 | 0.00361 | 0.0000112 | ND | 0.00318 | 0.000340 | 0.0311 | 0.00163 | 0.0109 | 0.00112 | 0.00109 | 0.000150 | 0.000000978 | 0.00109 | ND |
| 2/26/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0025 | 0.0000354 | 0.000586 | 0.00189 | 0.00000423 | ND | 0.00200 | 0.000132 | 0.0538 | 0.000405 | 0.00404 | 0.00404 | 0.000588 | 0.000115 | 0.000000831 | 0.000357 | ND |
| | WW Pump Station #4 (AM-02) | <0.0025 | 0.0000924 | 0.000219 | 0.00362 | 0.00000631 | ND | 0.00210 | 0.000162 | 0.0333 | 0.000495 | 0.00512 | 0.00185 | 0.000725 | 0.000166 | 0.000000983 | 0.000476 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0025 | 0.0000289 | 0.000126 | 0.00168 | 0.00000513 | ND | 0.00168 | 0.000169 | 0.0398 | 0.000299 | 0.00292 | 0.00146 | 0.000612 | 0.000130 | 0.000000756 | 0.000276 | ND |
| 2/27/2024 | Lahaina Boys & Girls Club (AM-04) | <0.0028 | 0.0000473 | 0.000130 | 0.00201 | 0.00000376 | ND | ND | 0.0000968 | 0.0301 | 0.000449 | 0.00255 | ND | 0.000135 | 0.000000920 | 0.000257 | ND | |
| | Leialii Hawaiian Homelands (AM-01) | <0.0026 | 0.0000408 | 0.00113 | 0.00313 | 0.00000945 | ND | 0.00294 | 0.000332 | 0.0554 | 0.000530 | 0.00941 | 0.00386 | 0.000939 | 0.000156 | 0.00000115 | 0.000878 | ND |
| | WW Pump Station #4 (AM-02) | <0.0025 | 0.000137 | 0.000310 | 0.00597 | 0.0000118 | ND | 0.00269 | 0.000420 | 0.0302 | 0.000727 | 0.0110 | 0.00193 | 0.00140 | 0.000174 | 0.00000112 | 0.00104 | ND |
| 2/28/2024 | Lahaina Intermediate School (AM-03) | <0.0025 | 0.0000351 | 0.000175 | 0.00243 | 0.0000222 | ND | 0.00268 | 0.000414 | 0.0380 | 0.000482 | 0.00899 | 0.00138 | 0.00109 | 0.000151 | 0.000000959 | 0.000839 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0025 | 0.0000581 | 0.000174 | 0.00268 | 0.00000611 | ND | 0.00210 | 0.000158 | 0.0301 | 0.000621 | 0.00477 | 0.00109 | 0.000629 | 0.000135 | 0.000000825 | 0.000396 | ND |
| | Leialii Hawaiian Homelands (AM-01) | <0.0026 | 0.0000437 | 0.000487 | 0.00272 | 0.00000911 | ND | 0.00301 | 0.000336 | 0.0362 | 0.000414 | 0.00969 | 0.00184 | 0.00105 | 0.000151 | 0.00000119 | 0.000844 | ND |
| 2/27/2024 | WW Pump Station #4 (AM-02) | <0.0025 | 0.0000836 | 0.000490 | 0.00587 | 0.0000189 | 0.0000907 | 0.00381 | 0.000771 | 0.0309 | 0.00118 | 0.0196 | 0.00162 | 0.00297 | 0.000215 | 0.00000149 | 0.00177 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0025 | 0.0000376 | 0.000319 | 0.00483 | 0.0000719 | ND | 0.00490 | 0.00101 | 0.0338 | 0.000582 | 0.0216 | 0.00131 | 0.00232 | 0.000283 | 0.00000156 | 0.00234 | ND |
| | Lahaina Boys & Girls Club (AM-04) | <0.0025 | 0.0000511 | 0.000347 | 0.00373 | 0.0000145 | ND | 0.00292 | 0.000442 | 0.0250 | 0.000987 | 0.0135 | 0.000961 | 0.00123 | 0.000192 | 0.00000142 | 0.00111 | ND |
| 2/28/2024 | Leialii Hawaiian Homelands (AM-01) | <0.0026 | 0.0000425 | 0.000569 | 0.00420 | 0.0000117 | ND | 0.00285 | 0.000535 | 0.0593 | 0.00139 | 0.0127 | 0.00222 | 0.00118 | 0.000153 | 0.00000151 | 0.00114 | ND |
| | WW Pump Station #4 (AM-02) | <0.0026 | 0.0000778 | 0.000313 | 0.00346 | 0.0000106 | ND | 0.00241 | 0.000294 | 0.0327 | 0.000900 | 0.00884 | 0.00200 | 0.00120 | 0.000174 | 0.00000141 | 0.000777 | ND |
| | Lahaina Intermediate School (AM-03) | <0.0025 | 0.0000607 | 0.000259 | 0.00321 | 0.0000244 | 0.0000548 | 0.00286 | 0.000480 | 0.0323 | 0.000603 | 0.0115 | 0.00131 | 0.00137 | 0.000183 | 0.00000140 | 0.00100 | ND |
| Lahaina Boys & Girls Club (AM-04) | <0.0025 | 0.0000445 | 0.000292 | 0.00269 | 0.00000799 | ND | 0.00202 | 0.000201 | 0.0202 | 0.000689 | 0.00661 | 0.000996 | 0.000671 | 0.000141 | 0.00000121 | 0.000514 | ND | |
| 95% Upper Confidence Limit ² | NA | 0.000100 | 0.000510 | 0.00425 | 0.0000170 | NA | 0.00286 | 0.000420 | 0.0394 | 0.000770 | 0.0112 | 0.00196 | 0.00135 | 0.000170 | 0.00000110 | 0.00114 | NA | |

Notes:
Heavy metals results for stations AM02-AM04 from 2/25-2/27 were reissued due to calibration and volume corrections
¹ Asbestos result determined by transmission electron microscopy (TEM) in accordance with ISO Method 10312. PCMe results are presented here.
² 95% UCL determined through 'best fit' lognormal or normal parametric statistics via W test
s/cc = structures per cubic centimeter
ug/m3 = micrograms per cubic meter
NA = Not Applicable
ND = Not detected at or above the laboratory reporting limit
* Laboratory 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

Table 2
HDOH CAB Ambient Community Monitoring and Sampling
Particulate Monitoring Results for PM₁₀
Maui Wildfire, Lahaina
2/22/2024 - 2/28/2024

| Screening Level | 150 µg/m ³ | |
|-----------------|-------------------------------------|-----|
| 2/22/2024 | Leialii Hawaiian Homelands (AM-01) | 5.6 |
| | WW Pump Station #4 (AM-02) | 6.3 |
| | Lahaina Intermediate School (AM-03) | 6.3 |
| | Lahaina Boys & Girls Club (AM-04) | 6.8 |
| 2/23/2024 | Leialii Hawaiian Homelands (AM-01) | 7.2 |
| | WW Pump Station #4 (AM-02) | 6.8 |
| | Lahaina Intermediate School (AM-03) | 6.1 |
| | Lahaina Boys & Girls Club (AM-04) | 5.7 |
| 2/24/2024 | Leialii Hawaiian Homelands (AM-01) | 5.0 |
| | WW Pump Station #4 (AM-02) | 7.6 |
| | Lahaina Intermediate School (AM-03) | 7.5 |
| | Lahaina Boys & Girls Club (AM-04) | 6.5 |
| 2/25/2024 | Leialii Hawaiian Homelands (AM-01) | 8.2 |
| | WW Pump Station #4 (AM-02) | 8.9 |
| | Lahaina Intermediate School (AM-03) | 7.2 |
| | Lahaina Boys & Girls Club (AM-04) | 6.8 |
| 2/26/2024 | Leialii Hawaiian Homelands (AM-01) | 7.5 |
| | WW Pump Station #4 (AM-02) | 8.0 |
| | Lahaina Intermediate School (AM-03) | 6.4 |
| | Lahaina Boys & Girls Club (AM-04) | 5.9 |
| 2/27/2024 | Leialii Hawaiian Homelands (AM-01) | 9.4 |
| | WW Pump Station #4 (AM-02) | 13 |
| | Lahaina Intermediate School (AM-03) | 11 |
| | Lahaina Boys & Girls Club (AM-04) | 9.1 |
| 2/28/2024 | Leialii Hawaiian Homelands (AM-01) | 7.6 |
| | WW Pump Station #4 (AM-02) | 7.7 |
| | Lahaina Intermediate School (AM-03) | 9.2 |
| | Lahaina Boys & Girls Club (AM-04) | 7.8 |

Notes:

µg/m³ = micrograms per cubic meter

All Stations on February 18 are based off of a 23 hr TWA calculation

24 hour TWA calculation results are shown in two significant figures

Results are based on 24 hour TWA calculation

Table 3
Maui Wildfire - Lahaina
Meteorological Data
2/22/2024-2/28/2024

| Date | Station ID | Weather Station Name | Wind Speed (mph) | Wind Direction (angle) | Temperature (°F) | Rel Humidity (%) | Baro Pressure (mBar) |
|-----------|------------|-----------------------------|------------------|------------------------|------------------|------------------|----------------------|
| 2/22/2024 | AM-01 | Leialii Hawaiian Homelands | 1.1 | SSE | 76 | 62 | 763.3 |
| 2/22/2024 | AM-02 | WW Pump Station #4 | 0.9 | S | 76 | 64 | 765.4 |
| 2/22/2024 | AM-03 | Lahaina Intermediate School | 1.1 | SSE | 76 | 67 | 755.8 |
| 2/22/2024 | AM-04 | Lahaina Boys & Girls Club | 1.2 | S | 77 | 65 | 764.8 |
| 2/23/2024 | AM-01 | Leialii Hawaiian Homelands | 1.1 | SE | 76 | 61 | 761.3 |
| 2/23/2024 | AM-02 | WW Pump Station #4 | 1.0 | SE | 76 | 64 | 763.4 |
| 2/23/2024 | AM-03 | Lahaina Intermediate School | 1.1 | SE | 75 | 67 | 753.9 |
| 2/23/2024 | AM-04 | Lahaina Boys & Girls Club | 1.1 | S | 76 | 66 | 762.9 |
| 2/24/2024 | AM-01 | Leialii Hawaiian Homelands | 1.1 | SE | 74 | 67 | 761.2 |
| 2/24/2024 | AM-02 | WW Pump Station #4 | 0.9 | SSE | 75 | 68 | 763.3 |
| 2/24/2024 | AM-03 | Lahaina Intermediate School | 1.0 | SE | 74 | 71 | 753.7 |
| 2/24/2024 | AM-04 | Lahaina Boys & Girls Club | 1.2 | S | 75 | 70 | 762.7 |
| 2/25/2024 | AM-01 | Leialii Hawaiian Homelands | 1.2 | SE | 76 | 55 | 762.0 |
| 2/25/2024 | AM-02 | WW Pump Station #4 | 1.1 | SE | 75 | 59 | 764.1 |
| 2/25/2024 | AM-03 | Lahaina Intermediate School | 1.1 | ESE | 75 | 62 | 754.6 |
| 2/25/2024 | AM-04 | Lahaina Boys & Girls Club | 1.2 | S | 75 | 61 | 763.7 |
| 2/26/2024 | AM-01 | Leialii Hawaiian Homelands | 1.3 | ESE | 75 | 58 | 763.5 |
| 2/26/2024 | AM-02 | WW Pump Station #4 | 1.0 | SE | 75 | 61 | 765.6 |
| 2/26/2024 | AM-03 | Lahaina Intermediate School | 1.1 | SE | 75 | 64 | 756.1 |
| 2/26/2024 | AM-04 | Lahaina Boys & Girls Club | 1.1 | SSW | 75 | 64 | 765.4 |
| 2/27/2024 | AM-01 | Leialii Hawaiian Homelands | 1.8 | SE | 77 | 55 | 763.4 |
| 2/27/2024 | AM-02 | WW Pump Station #4 | 1.5 | SE | 77 | 58 | 765.5 |
| 2/27/2024 | AM-03 | Lahaina Intermediate School | 1.5 | SE | 77 | 60 | 755.9 |
| 2/27/2024 | AM-04 | Lahaina Boys & Girls Club | 1.3 | S | 77 | 58 | 765.2 |
| 2/28/2024 | AM-01 | Leialii Hawaiian Homelands | 1.2 | SSE | 76 | 57 | 762.2 |
| 2/28/2024 | AM-02 | WW Pump Station #4 | 1.1 | SSE | 76 | 61 | 764.2 |
| 2/28/2024 | AM-03 | Lahaina Intermediate School | 1.2 | SSE | 76 | 62 | 754.7 |
| 2/28/2024 | AM-04 | Lahaina Boys & Girls Club | 1.2 | S | 76 | 62 | 764.0 |

Notes:

°F - Fahrenheit

mBar - millibar

mph - miles per hour

Appendix 1

Please note, comments pertaining to gypsum may be mentioned in the lab reports below. 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. A more indepth discussion can be found in the attached weekly report.

**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: 042403988
 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: 02/28/2024 09:50 AM
 Analysis Date: 03/01/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM01-022224-AB | Sample Description: |
| EMSL Sample Number: | 042403988-0001 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7119.2 |
| 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: | Random (4.00) | Grid Openings Analyzed: 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | |
| Estimated Particulate Loading on Filter %: | 2 | |
| Target Analytical Sensitivity (Structures/cc): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0008 | Limit of Detection (Structures/cc): 0.0025 |

| 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 | 1 | 1 | < 46.36 | < 0.0025 | Not Applicable | - 0.0040 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 1 | 1 | < 46.36 | < 0.0025 | Not Applicable | - 0.0040 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 1 | 1 | < 46.36 | < 0.0025 | Not Applicable | - 0.0040 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

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

EMSL Order ID: 042403988
 Client: Tetra Tech
 Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042403988-0001 | | | | | | | Customer Sample: | | MFL-AM01-022224-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 | | | | | | |
| B2 | A6 | None Detected | | | | | | | | | | |
| B2 | D8 | B | 1 | 1 | 1.48 | 0.08 | CD | Chrysotile | | MG_22, MG_23 | | |
| B2 | H6 | None Detected | | | | | | | | | | |
| B3 | B7 | None Detected | | | | | | | | | | |
| B3 | 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: 042403988
 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: 02/28/2024 09:50 AM
 Analysis Date: 03/01/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|---------------------------|--|
| Customer Sample Number: | MFL-AM02-022224-AB | Sample Description: |
| EMSL Sample Number: | 042403988-0002 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 6961.4 |
| 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: 5 |
| 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): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0009 | Limit of Detection (Structures/cc): 0.0026 |

| 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 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |

| 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 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042403988
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: 042403988-0002 | | Customer Sample: MFL-AM02-022224-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 | J3 | None Detected | | | | | | | | | |
| B5 | F2 | None Detected | | | | | | | | | |
| B5 | B5 | None Detected | | | | | | | | | |
| B6 | J5 | None Detected | | | | | | | | | |
| B6 | C7 | 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: 042403988
 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: 02/28/2024 09:50 AM
 Analysis Date: 03/01/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM03-022224-AB | Sample Description: |
| EMSL Sample Number: | 042403988-0003 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7240.3 |
| 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: 5 |
| 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): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0008 | Limit of Detection (Structures/cc): 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042403988
 Client: Tetra Tech
 Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042403988-0003 | | | | Customer Sample: MFL-AM03-022224-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 | | | | | |
| C2 | J6 | None Detected | | | | | | | | | |
| C2 | G4 | None Detected | | | | | | | | | |
| C2 | B4 | None Detected | | | | | | | | | |
| C3 | B7 | None Detected | | | | | | | | | |
| C3 | H5 | None Detected | | | | | | | | | |

Abbreviations used:
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 XCGBLD - Crosses Countable Grid Bar Length Doubled

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 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: 02/28/2024 09:50 AM
 Analysis Date: 03/01/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM04-022224-AB | Sample Description: |
| EMSL Sample Number: | 042403988-0004 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7162.3 |
| 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: 5 |
| 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): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0008 | Limit of Detection (Structures/cc): 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042403988
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042403988-0004 | | | | | Customer Sample: | | MFL-AM04-022224-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 | | | | | |
| C5 | J5 | None Detected | | | | | | | | | |
| C5 | F2 | None Detected | | | | | | | | | |
| C5 | B1 | None Detected | | | | | | | | | |
| C6 | B8 | None Detected | | | | | | | | | |
| C6 | G9 | None Detected | | | | | | | | | |

Abbreviations used:
 XNCGBLD - Crosses Non-Countable Grid Bar Length Doubled
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Phone: (703) 489-2674
 Fax:
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 Analysis Date: 03/01/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--|--|
| Customer Sample Number: MFL-FB01-022224-AB | Sample Description: | |
| EMSL Sample Number: 042403988-0005 | 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): 0.0129 | |
| 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): 0.001 | | |
| 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 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total All Structures | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |

| PCM EQUIVALENT (PCMe) STRUCTURES (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|---|------------------|---------------------|-------|------------------------------|-----------------------------------|---------------------------------|----------------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration S / mm ² | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |

Comment

Approved Signatory

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 Client: Tetra Tech
 Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042403988-0005 | | | | | | Customer Sample: | | MFL-FB01-022224-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 | A9 | None Detected | | | | | | | | | |
| D2 | C7 | None Detected | | | | | | | | | |
| D2 | E7 | None Detected | | | | | | | | | |
| D2 | G8 | None Detected | | | | | | | | | |
| D2 | I6 | None Detected | | | | | | | | | |
| D3 | J4 | None Detected | | | | | | | | | |
| D3 | H3 | None Detected | | | | | | | | | |
| D3 | F2 | None Detected | | | | | | | | | |
| D3 | D4 | None Detected | | | | | | | | | |
| D3 | B5 | None Detected | | | | | | | | | |

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

**EMSL Analytical, Inc.**

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

EMSL Order: 042403988
 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: 02/28/2024 09:50 AM
 Analysis Date: 03/01/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|---------------------------|--|
| Customer Sample Number: | MFL-AM01-022324-AB | Sample Description: |
| EMSL Sample Number: | 042403988-0006 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7180.4 |
| 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: 5 |
| 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): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0008 | Limit of Detection (Structures/cc): 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

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

EMSL Order ID: 042403988
 Client: Tetra Tech
 Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042403988-0006 | | | | | | Customer Sample: | | MFL-AM01-022324-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 | J5 | None Detected | | | | | | | | | |
| D5 | H8 | None Detected | | | | | | | | | |
| D5 | E9 | None Detected | | | | | | | | | |
| D6 | H8 | None Detected | | | | | | | | | |
| D6 | B6 | None Detected | | | | | | | | | |

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

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 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: 02/28/2024 09:50 AM
 Analysis Date: 03/01/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|---------------------------|--|
| Customer Sample Number: | MFL-AM02-022324-AB | Sample Description: |
| EMSL Sample Number: | 042403988-0007 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7194.5 |
| 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): 0.0129 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: 5 |
| 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): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0008 | Limit of Detection (Structures/cc): 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042403988
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: 042403988-0007 | | | Customer Sample: MFL-AM02-022324-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 | | | | | |
| E2 | A5 | None Detected | | | | | | | | | |
| E2 | D3 | None Detected | | | | | | | | | |
| E2 | G2 | None Detected | | | | | | | | | |
| E3 | C3 | None Detected | | | | | | | | | |
| E3 | G6 | None Detected | | | | | | | | | |

Abbreviations used:
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 XCGBLD - Crosses Countable Grid Bar Length Doubled

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EMSL Order: 042403988
 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: 02/28/2024 09:50 AM
 Analysis Date: 03/01/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM03-022324-AB | Sample Description: |
| EMSL Sample Number: | 042403988-0008 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7082.4 |
| 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: 5 |
| 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): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0008 | Limit of Detection (Structures/cc): 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042403988
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: 042403988-0008 | | Customer Sample: MFL-AM03-022324-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 | B7 | None Detected | | | | | | | | | |
| E5 | D6 | None Detected | | | | | | | | | |
| E5 | G4 | None Detected | | | | | | | | | |
| E6 | C5 | None Detected | | | | | | | | | |
| E6 | H8 | None Detected | | | | | | | | | |

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

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Phone: (703) 489-2674
 Fax:
 Received Date: 02/28/2024 09:50 AM
 Analysis Date: 03/01/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|---------------------------|--|
| Customer Sample Number: | MFL-AM04-022324-AB | Sample Description: |
| EMSL Sample Number: | 042403988-0009 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7207.6 |
| 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: 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | |
| Estimated Particulate Loading on Filter %: | 2 | |
| Target Analytical Sensitivity (Structures/cc): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0008 | Limit of Detection (Structures/cc): 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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 Client: Tetra Tech
 Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: 042403988-0009 | | | Customer Sample: MFL-AM04-022324-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 | | | | | |
| F2 | A5 | None Detected | | | | | | | | | |
| F2 | E3 | None Detected | | | | | | | | | |
| F2 | I5 | None Detected | | | | | | | | | |
| F3 | B7 | None Detected | | | | | | | | | |
| F3 | 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: 042403988
 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: 02/28/2024 09:50 AM
 Analysis Date: 03/01/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-FB01-022324-AB | Sample Description: |
| EMSL Sample Number: | 042403988-0010 | 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): 0.0129 |
| 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): | 0.001 | |
| 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 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total All Structures | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |

| PCM EQUIVALENT (PCMe) STRUCTURES (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|---|------------------|---------------------|-------|------------------------------|-----------------------------------|---------------------------------|----------------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration S / mm ² | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |

Comment

Approved Signatory

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EMSL Order ID: 042403988
 Client: Tetra Tech
 Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042403988-0010 | | | | | | Customer Sample: | | MFL-FB01-022324-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 | A4 | None Detected | | | | | | | | | |
| F5 | C5 | None Detected | | | | | | | | | |
| F5 | E2 | None Detected | | | | | | | | | |
| F5 | G3 | None Detected | | | | | | | | | |
| F5 | I5 | None Detected | | | | | | | | | |
| F6 | A4 | None Detected | | | | | | | | | |
| F6 | C5 | None Detected | | | | | | | | | |
| F6 | E7 | None Detected | | | | | | | | | |
| F6 | G6 | None Detected | | | | | | | | | |
| F6 | I4 | None Detected | | | | | | | | | |

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

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 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM01-022424-AB | Sample Description: |
| EMSL Sample Number: | 042403988-0011 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7060.9 |
| 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: 5 |
| 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): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0008 | Limit of Detection (Structures/cc): 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042403988
 Client: Tetra Tech
 Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042403988-0011 | | Customer Sample: | | MFL-AM01-022424-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 | J4 | None Detected | | | | | | | | | |
| G2 | F3 | None Detected | | | | | | | | | |
| G2 | B1 | None Detected | | | | | | | | | |
| G3 | I1 | None Detected | | | | | | | | | |
| G3 | C3 | 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: 042403988
 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: 02/28/2024 09:50 AM
 Analysis Date: 03/04/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|---------------------------|--|
| Customer Sample Number: | MFL-AM02-022424-AB | Sample Description: |
| EMSL Sample Number: | 042403988-0012 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 6970.6 |
| 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: 5 |
| 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): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0009 | Limit of Detection (Structures/cc): 0.0026 |

| 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 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |

| 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 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042403988
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042403988-0012 | | Customer Sample: | | MFL-AM02-022424-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 | I2 | None Detected | | | | | | | | | |
| G5 | F3 | None Detected | | | | | | | | | |
| G5 | D5 | None Detected | | | | | | | | | |
| G6 | C4 | None Detected | | | | | | | | | |
| G6 | I3 | None Detected | | | | | | | | | |

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



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Customer ID: TTDC42
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Attn: Chelsea Saber
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Phone: (703) 489-2674
Fax:
Received Date: 02/28/2024 09:50 AM
Analysis Date: 03/04/2024
Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers
Direct Transfer Transmission Electron Microscopy

Customer Sample Number: MFL-AM03-022424-AB
Sample Description:
EMSL Sample Number: 042403988-0013
Sample Matrix: Air
Magnification used for fiber counting: 20,000
Volume (L): 7190.4
Aspect ratio for fiber definition: 3:1
Area of original collection filter (mm²): 385
Minimum Length (µm): ≥ 0.5
Grid Opening Area (mm²): 0.0129
Chi² Test for Random Distribution on Filter: N/A (N/A)
Grid Openings Analyzed: 5
Minimum Level of analysis (chrysotile): CD
Minimum Level of analysis (amphibole): ADX
Analyst: P. Harrison
Estimated Particulate Loading on Filter %: 2
Target Analytical Sensitivity (Structures/cc): 0.001
Analytical Sensitivity (Structures/cc): 0.0008
Limit of Detection (Structures/cc): 0.0025

Table with 7 columns: Minimum ID Level, Structures Detected (Primary, Total), Density (S/mm²), Concentration (S/cc), and 95% Confidence Interval (Lower, Upper). Rows include Total Chrysotile, Total Amphibole, Actinolite, Amosite, Anthophyllite, Crocidolite, Tremolite, Total Asbestos Structures, Other Minerals, and Total All Structures.

Table with 7 columns: Minimum ID Level, Structures Detected (Primary, Total), Density (S/mm²), Concentration (S/cc), and 95% Confidence Interval (Lower, Upper). Rows include Total Chrysotile (PCMe), Total Amphibole (PCMe), Actinolite, Amosite, Anthophyllite, Crocidolite, Tremolite, Total Asbestos Structures (PCMe), Other Minerals, and Total All Structures (PCMe).

Comment

Signature: P. Harrison
Approved Signatory

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EMSL Order ID: 042403988
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042403988-0013 | | | | | Customer Sample: | | MFL-AM03-022424-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 | J7 | None Detected | | | | | | | | | |
| H2 | G5 | None Detected | | | | | | | | | |
| H2 | E7 | None Detected | | | | | | | | | |
| H3 | H6 | None Detected | | | | | | | | | |
| H3 | C5 | None Detected | | | | | | | | | |

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

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 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM04-022424-AB | Sample Description: |
| EMSL Sample Number: | 042403988-0014 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 6952.0 |
| 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: 5 |
| 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): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0009 | Limit of Detection (Structures/cc): 0.0026 |

| 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 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |

| 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 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0026 | Not Applicable | - 0.0026 |

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

EMSL Order ID: 042403988
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: 042403988-0014 | | | Customer Sample: MFL-AM04-022424-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 | B6 | None Detected | | | | | | | | | |
| H5 | D8 | None Detected | | | | | | | | | |
| H5 | G7 | None Detected | | | | | | | | | |
| H6 | B9 | None Detected | | | | | | | | | |
| H6 | 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: 042403988
 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: 02/28/2024 09:50 AM
 Analysis Date: 03/04/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-FB01-022424-AB | Sample Description: |
| EMSL Sample Number: | 042403988-0015 | 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): | 0.001 | |
| 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 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total All Structures | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |

| PCM EQUIVALENT (PCMe) STRUCTURES (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|---|------------------|---------------------|-------|------------------------------|-----------------------------------|---------------------------------|----------------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration S / mm ² | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |

Comment

Approved Signatory

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EMSL Order ID: 042403988
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: 042403988-0015 | | Customer Sample: MFL-FB01-022424-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 | | | | | |
| I3 | J3 | None Detected | | | | | | | | | |
| I3 | I5 | None Detected | | | | | | | | | |
| I3 | H8 | None Detected | | | | | | | | | |
| I3 | G6 | None Detected | | | | | | | | | |
| I3 | D3 | None Detected | | | | | | | | | |
| I4 | A8 | None Detected | | | | | | | | | |
| I4 | C6 | None Detected | | | | | | | | | |
| I4 | E4 | None Detected | | | | | | | | | |
| I4 | G5 | None Detected | | | | | | | | | |
| I4 | I6 | 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: 042403988
 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: 02/28/2024 09:50 AM
 Analysis Date: 03/04/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM01-022524-AB | Sample Description: |
| EMSL Sample Number: | 042403988-0016 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7068.2 |
| 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: 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | |
| Estimated Particulate Loading on Filter %: | 2 | |
| Target Analytical Sensitivity (Structures/cc): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0008 | Limit of Detection (Structures/cc): 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042403988
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: 042403988-0016 | | | Customer Sample: MFL-AM01-022524-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 | | | | | |
| I5 | B6 | None Detected | | | | | | | | | |
| I5 | D8 | None Detected | | | | | | | | | |
| I5 | G10 | None Detected | | | | | | | | | |
| I6 | J1 | None Detected | | | | | | | | | |
| I6 | B1 | None Detected | | | | | | | | | |

Abbreviations used:
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 XCGBLD - Crosses Countable Grid Bar Length Doubled

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 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: 02/28/2024 09:50 AM
 Analysis Date: 03/04/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM02-022524-AB | Sample Description: |
| EMSL Sample Number: | 042403988-0017 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7217.2 |
| 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: 5 |
| 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): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0008 | Limit of Detection (Structures/cc): 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042403988
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: 042403988-0017 | | Customer Sample: MFL-AM02-022524-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 | | | | | |
| J2 | B9 | None Detected | | | | | | | | | |
| J2 | E9 | None Detected | | | | | | | | | |
| J2 | I8 | None Detected | | | | | | | | | |
| J3 | H3 | None Detected | | | | | | | | | |
| J3 | B5 | None Detected | | | | | | | | | |

Abbreviations used:
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Phone: (703) 489-2674
 Fax:
 Received Date: 02/28/2024 09:50 AM
 Analysis Date: 03/04/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM03-022524-AB | Sample Description: |
| EMSL Sample Number: | 042403988-0018 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7259.7 |
| 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): 0.0129 |
| Chi ² Test for Random Distribution on Filter: | N/A (N/A) | Grid Openings Analyzed: 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | |
| Estimated Particulate Loading on Filter %: | 2 | |
| Target Analytical Sensitivity (Structures/cc): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0008 | Limit of Detection (Structures/cc): 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: 042403988-0018 | | | Customer Sample: MFL-AM03-022524-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 | A6 | None Detected | | | | | | | | | |
| J5 | E8 | None Detected | | | | | | | | | |
| J5 | H9 | None Detected | | | | | | | | | |
| J6 | A8 | None Detected | | | | | | | | | |
| J6 | H8 | 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
 Tel/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 042403988
 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: 02/28/2024 09:50 AM
 Analysis Date: 03/04/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|---------------------------|--|
| Customer Sample Number: | MFL-AM04-022524-AB | Sample Description: |
| EMSL Sample Number: | 042403988-0019 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 6484.3 |
| 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: 5 |
| 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): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0009 | Limit of Detection (Structures/cc): 0.0028 |

| 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 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |

| 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 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0028 | Not Applicable | - 0.0028 |

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

EMSL Order ID: 042403988
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: 042403988-0019 | | | Customer Sample: MFL-AM04-022524-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 | | | | | |
| K2 | J3 | None Detected | | | | | | | | | |
| K2 | G1 | None Detected | | | | | | | | | |
| K2 | B4 | None Detected | | | | | | | | | |
| K3 | G6 | None Detected | | | | | | | | | |
| K3 | 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: 042403988
 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: 02/28/2024 09:50 AM
 Analysis Date: 03/04/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--|--|
| Customer Sample Number: MFL-FB01-022524-AB | Sample Description: | |
| EMSL Sample Number: 042403988-0020 | 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): 0.0129 | |
| 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): 0.001 | | |
| 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 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total All Structures | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |

| PCM EQUIVALENT (PCMe) STRUCTURES (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|---|------------------|---------------------|-------|------------------------------|-----------------------------------|---------------------------------|----------------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration S / mm ² | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |

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: 042403988
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: 042403988-0020 | | Customer Sample: MFL-FB01-022524-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 | | | | | |
| K5 | A3 | None Detected | | | | | | | | | |
| K5 | C4 | None Detected | | | | | | | | | |
| K5 | E3 | None Detected | | | | | | | | | |
| K5 | G4 | None Detected | | | | | | | | | |
| K5 | I5 | None Detected | | | | | | | | | |
| K6 | A5 | None Detected | | | | | | | | | |
| K6 | C3 | None Detected | | | | | | | | | |
| K6 | E1 | None Detected | | | | | | | | | |
| K6 | G2 | None Detected | | | | | | | | | |
| K6 | 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: 042403988
 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: 02/28/2024 09:50 AM
 Analysis Date: 03/01/2024
 Report Date: 03/05/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | | |
|--|----------------|--|-------------|
| Customer Sample Number: MFL-AM01-022224-AB | | Sample Description: Labblank | |
| EMSL Sample Number: | 042403988-0021 | 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): | 0.001 | | |
| 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 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total All Structures | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |

| PCM EQUIVALENT (PCMe) STRUCTURES (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|---|------------------|---------------------|-------|------------------------------|-----------------------------------|---------------------------------|----------------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration S / mm ² | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.18 | < N/A | Not Applicable | Not Applicable |

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

EMSL Order ID: 042403988
 Client: Tetra Tech
 Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042403988-0021 LB | | | | | | Customer Sample: | | MFL-AM01-022224-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 | J5 | None Detected | | | | | | | | | |
| A1 | H4 | None Detected | | | | | | | | | |
| A1 | F3 | None Detected | | | | | | | | | |
| A1 | D4 | None Detected | | | | | | | | | |
| A1 | B3 | None Detected | | | | | | | | | |
| A2 | A8 | None Detected | | | | | | | | | |
| A2 | C7 | None Detected | | | | | | | | | |
| A2 | E8 | None Detected | | | | | | | | | |
| A2 | G7 | None Detected | | | | | | | | | |
| A2 | I8 | None Detected | | | | | | | | | |

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



EMSL Order Number / Lab Use Only

#042403988

RECEIVED

PHONE: (800) 220-3675
EMAIL: CinnAsbLab@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 Sabar</i> | Billing Contact: | |
| | Street Address: <i>1560 Broadway, Ste 1400</i> | Street Address: | |
| | City, State, Zip: <i>Denver, CO 80202</i> Country: <i>USA</i> | City, State, Zip: | Country: |
| | Phone: <i>703-489-2674</i> | Phone: | |
| Email(s) for Report: <i>chelsea.sabar@tetratech.com</i> | Email(s) for Invoice: | | |

| | | |
|--|---|---|
| Project Information | | Purchase Order: |
| Project Name/No: <i>Mau'i Fires - Lahaina</i> | US State where samples collected: <i>HI</i> | State of Connecticut (CT) must select project location: <input type="checkbox"/> Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable) |
| EMSL LIMS Project ID: <small>(If applicable, EMSL will provide)</small> | Sampled By Name: <i>Elin Kanger Saldaña</i> | Sampled By Signature: <i>[Signature]</i> |
| | | No. of Samples in Shipment: <i>20</i> |

Turn-Around-Time (TAT)

3 Hour
 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.

Test Selection

| | | |
|--|---|--|
| <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-AM01-022224-AB | | 7,119.207 | 02/22/24 1106 |
| MFL-AM02-022224-AB | | 6,961.426 | 02/22/24 1128 |
| MFL-AM03-022224-AB | | 7,240.320 | 02/22/24 1306 |
| MFL-AM04-022224-AB | | 7,162.272 | 02/22/24 1335 |
| MFL-FB01-022224-AB | | 0 | 02/22/24 1200 |
| MFL-AM01-022324-AB | | 7,180.439 | 02/23/24 1051 |
| MFL-AM02-022324-AB | | 7,194.528 | 02/23/24 1131 |
| MFL-AM03-022324-AB | | 7,082.406 | 02/23/24 1307 |

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

All samples received acceptable for analysis.

| | |
|---|---|
| Method of Shipment: <i>FedEx</i> | Sample Condition Upon Receipt: |
| Relinquished by: <i>[Signature]</i> Date/Time: <i>02/26/24 1100</i> | Received by: <i>[Signature]</i> Date/Time: <i>2/28/24 950am</i> |
| Relinquished by: | Received by: |

Controlled Document - COC-05 Asbestos R16 10/29/2021 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.

[Handwritten Signature]

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

Reviewed by:

Kierra Johnson 3/5/2024 and Shanna Vasser 3/6/2024

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

Collection date(s): 2/22/2024 - 2/25/2024

Report No: 42403988

- √ 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.
- NA 8. Result qualifiers and definitions are provided.
- √ 9. Result units are reported.
- √ 10. Requested reporting limits are present.
- NA 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: None

Notes:

- 1. A revised report was issued on 3/6/2024 to correct sample ID in lab blank.

**EMSL Analytical, Inc.**

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EMSL Order: 042404387
 Customer ID: TTDC42
 Customer PO: 1207085
 Project ID:

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

Phone: (703) 489-2674
 Fax:
 Received Date: 03/04/2024 08:50 AM
 Analysis Date: 03/05/2024
 Report Date: 03/06/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM01-022624-AB | Sample Description: |
| EMSL Sample Number: | 042404387-0001 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 6798.9 |
| 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: P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | |
| Estimated Particulate Loading on Filter %: | 3 | |
| Target Analytical Sensitivity (Structures/cc): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0009 | Limit of Detection (Structures/cc): 0.0026 |

| 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 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |

| 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 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |

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

EMSL Order ID: 042404387
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: 042404387-0001 | | | Customer Sample: MFL-AM01-022624-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 | A6 | None Detected | | | | | | | | | |
| A5 | D7 | None Detected | | | | | | | | | |
| A5 | H5 | None Detected | | | | | | | | | |
| A6 | D6 | None Detected | | | | | | | | | |
| A6 | H8 | None Detected | | | | | | | | | |

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

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 Customer ID: TTDC42
 Customer PO: 1207085
 Project ID:

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 Tetra Tech
 1560 Broadway, Suite 1400
 Denver, CO, 80202

Phone: (703) 489-2674
 Fax:
 Received Date: 03/04/2024 08:50 AM
 Analysis Date: 03/05/2024
 Report Date: 03/06/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM02-022624-AB | Sample Description: |
| EMSL Sample Number: | 042404387-0002 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7040.0 |
| 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: 5 |
| 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): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0008 | Limit of Detection (Structures/cc): 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042404387
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: 042404387-0002 | | Customer Sample: MFL-AM02-022624-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 | | | | | |
| B2 | A6 | None Detected | | | | | | | | | |
| B2 | D9 | None Detected | | | | | | | | | |
| B2 | G7 | None Detected | | | | | | | | | |
| B3 | I4 | None Detected | | | | | | | | | |
| B3 | D3 | 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: 042404387
 Customer ID: TTDC42
 Customer PO: 1207085
 Project ID:

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

Phone: (703) 489-2674
 Fax:
 Received Date: 03/04/2024 08:50 AM
 Analysis Date: 03/05/2024
 Report Date: 03/06/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM03-022624-AB | Sample Description: |
| EMSL Sample Number: | 042404387-0003 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7165.0 |
| 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: 5 |
| Minimum Level of analysis (chrysotile): | CD | Analyst: P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | |
| Estimated Particulate Loading on Filter %: | 2 | |
| Target Analytical Sensitivity (Structures/cc): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0008 | Limit of Detection (Structures/cc): 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.36 | < 0.0025 | Not Applicable | - 0.0025 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042404387
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042404387-0003 | | | | Customer Sample: | | MFL-AM03-022624-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 | J4 | None Detected | | | | | | | | | |
| B5 | F3 | None Detected | | | | | | | | | |
| B5 | C5 | None Detected | | | | | | | | | |
| B6 | I5 | None Detected | | | | | | | | | |
| B6 | D7 | None Detected | | | | | | | | | |

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

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 Customer ID: TTDC42
 Customer PO: 1207085
 Project ID:

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

Phone: (703) 489-2674
 Fax:
 Received Date: 03/04/2024 08:50 AM
 Analysis Date: 03/05/2024
 Report Date: 03/06/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--|--|
| Customer Sample Number: MFL-AM04-022624-AB | Sample Description: | |
| EMSL Sample Number: 042404387-0004 | Sample Matrix: Air | |
| Magnification used for fiber counting: 20,000 | Volume (L): 7167.7 | |
| 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: P. Harrison | |
| Minimum Level of analysis (amphibole): ADX | | |
| Estimated Particulate Loading on Filter %: 3 | | |
| Target Analytical Sensitivity (Structures/cc): 0.001 | | |
| Analytical Sensitivity (Structures/cc): 0.0008 | Limit of Detection (Structures/cc): 0.0025 | |

| 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 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |

Comment

Approved Signatory

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

EMSL Order ID: 042404387
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: 042404387-0004 | | Customer Sample: MFL-AM04-022624-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 | | | | | |
| C2 | J2 | None Detected | | | | | | | | | |
| C2 | G5 | None Detected | | | | | | | | | |
| C2 | B6 | None Detected | | | | | | | | | |
| C3 | I7 | None Detected | | | | | | | | | |
| C3 | B4 | 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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 Denver, CO, 80202

Phone: (703) 489-2674
 Fax:
 Received Date: 03/04/2024 08:50 AM
 Analysis Date: 03/05/2024
 Report Date: 03/06/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-FB01-022624-AB | Sample Description: |
| EMSL Sample Number: | 042404387-0005 | 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): | 0.001 | |
| 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 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total All Structures | - | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |

| PCM EQUIVALENT (PCMe) STRUCTURES (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|---|------------------|---------------------|-------|------------------------------|-----------------------------------|---------------------------------|----------------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration S / mm ² | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |

Comment

Approved Signatory

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

EMSL Order ID: 042404387
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: 042404387-0005 | | Customer Sample: MFL-FB01-022624-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 | | | | | |
| C5 | J3 | None Detected | | | | | | | | | |
| C5 | H4 | None Detected | | | | | | | | | |
| C5 | F2 | None Detected | | | | | | | | | |
| C5 | D5 | None Detected | | | | | | | | | |
| C5 | B4 | None Detected | | | | | | | | | |
| C6 | A8 | None Detected | | | | | | | | | |
| C6 | C9 | None Detected | | | | | | | | | |
| C6 | E8 | None Detected | | | | | | | | | |
| C6 | G7 | None Detected | | | | | | | | | |
| C6 | I5 | 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: 042404387
 Customer ID: TTDC42
 Customer PO: 1207085
 Project ID:

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

Phone: (703) 489-2674
 Fax:
 Received Date: 03/04/2024 08:50 AM
 Analysis Date: 03/05/2024
 Report Date: 03/06/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM01-022724-AB | Sample Description: |
| EMSL Sample Number: | 042404387-0006 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7020.2 |
| 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: P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | |
| Estimated Particulate Loading on Filter %: | 3 | |
| Target Analytical Sensitivity (Structures/cc): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0009 | Limit of Detection (Structures/cc): 0.0026 |

| 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 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |

| 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 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042404387
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: 042404387-0006 | | | Customer Sample: MFL-AM01-022724-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 | J4 | None Detected | | | | | | | | | |
| D2 | G3 | None Detected | | | | | | | | | |
| D2 | C5 | None Detected | | | | | | | | | |
| D3 | B5 | None Detected | | | | | | | | | |
| D3 | 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: 042404387
 Customer ID: TTDC42
 Customer PO: 1207085
 Project ID:

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

Phone: (703) 489-2674
 Fax:
 Received Date: 03/04/2024 08:50 AM
 Analysis Date: 03/05/2024
 Report Date: 03/06/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM02-022724-AB | Sample Description: |
| EMSL Sample Number: | 042404387-0007 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7062.9 |
| 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: P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | |
| Estimated Particulate Loading on Filter %: | 3 | |
| Target Analytical Sensitivity (Structures/cc): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0009 | Limit of Detection (Structures/cc): 0.0025 |

| 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 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042404387
 Client: Tetra Tech
 Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042404387-0007 | | Customer Sample: | | MFL-AM02-022724-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 | A7 | None Detected | | | | | | | | | |
| D5 | E8 | None Detected | | | | | | | | | |
| D5 | H6 | None Detected | | | | | | | | | |
| D6 | C6 | None Detected | | | | | | | | | |
| D6 | I7 | 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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 Denver, CO, 80202

Phone: (703) 489-2674
 Fax:
 Received Date: 03/04/2024 08:50 AM
 Analysis Date: 03/05/2024
 Report Date: 03/06/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM03-022724-AB | Sample Description: |
| EMSL Sample Number: | 042404387-0008 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7163.3 |
| 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: P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | |
| Estimated Particulate Loading on Filter %: | 3 | |
| Target Analytical Sensitivity (Structures/cc): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0008 | Limit of Detection (Structures/cc): 0.0025 |

| 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 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042404387
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042404387-0008 | | | | | Customer Sample: | | MFL-AM03-022724-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 | | | | | |
| E2 | J5 | None Detected | | | | | | | | | |
| E2 | F4 | None Detected | | | | | | | | | |
| E2 | C3 | None Detected | | | | | | | | | |
| E3 | C8 | None Detected | | | | | | | | | |
| E3 | I5 | 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: 042404387
 Customer ID: TTDC42
 Customer PO: 1207085
 Project ID:

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

Phone: (703) 489-2674
 Fax:
 Received Date: 03/04/2024 08:50 AM
 Analysis Date: 03/05/2024
 Report Date: 03/06/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM04-022724-AB | Sample Description: |
| EMSL Sample Number: | 042404387-0009 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7147.7 |
| 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: P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | |
| Estimated Particulate Loading on Filter %: | 3 | |
| Target Analytical Sensitivity (Structures/cc): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0008 | Limit of Detection (Structures/cc): 0.0025 |

| 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 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |

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

EMSL Order ID: 042404387
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: 042404387-0009 | | | Customer Sample: MFL-AM04-022724-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 | A6 | None Detected | | | | | | | | | |
| E5 | D8 | None Detected | | | | | | | | | |
| E5 | H10 | None Detected | | | | | | | | | |
| E6 | H4 | None Detected | | | | | | | | | |
| E6 | B5 | 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: 042404387
 Customer ID: TTDC42
 Customer PO: 1207085
 Project ID:

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

Phone: (703) 489-2674
 Fax:
 Received Date: 03/04/2024 08:50 AM
 Analysis Date: 03/05/2024
 Report Date: 03/06/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-FB01-022724-AB | Sample Description: |
| EMSL Sample Number: | 042404387-0010 | 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): | 0.001 | |
| 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 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total All Structures | - | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |

| PCM EQUIVALENT (PCMe) STRUCTURES (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|---|------------------|---------------------|-------|------------------------------|-----------------------------------|---------------------------------|----------------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration S / mm ² | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |

Comment

Approved Signatory

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EMSL Order ID: 042404387
 Client: Tetra Tech
 Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042404387-0010 | | | | | | Customer Sample: | | MFL-FB01-022724-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 | | | | | |
| F2 | A9 | None Detected | | | | | | | | | |
| F2 | C8 | None Detected | | | | | | | | | |
| F2 | E9 | None Detected | | | | | | | | | |
| F2 | G10 | None Detected | | | | | | | | | |
| F2 | I8 | None Detected | | | | | | | | | |
| F3 | A8 | None Detected | | | | | | | | | |
| F3 | C7 | None Detected | | | | | | | | | |
| F3 | E8 | None Detected | | | | | | | | | |
| F3 | G9 | None Detected | | | | | | | | | |
| F3 | 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: 042404387
 Customer ID: TTDC42
 Customer PO: 1207085
 Project ID:

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

Phone: (703) 489-2674
 Fax:
 Received Date: 03/04/2024 08:50 AM
 Analysis Date: 03/05/2024
 Report Date: 03/06/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM01-022824-AB | Sample Description: |
| EMSL Sample Number: | 042404387-0011 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7006.6 |
| 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: P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | |
| Estimated Particulate Loading on Filter %: | 3 | |
| Target Analytical Sensitivity (Structures/cc): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0009 | Limit of Detection (Structures/cc): 0.0026 |

| 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 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |

| 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 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042404387
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042404387-0011 | | Customer Sample: | | MFL-AM01-022824-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 | J3 | None Detected | | | | | | | | | |
| F5 | G4 | None Detected | | | | | | | | | |
| F5 | A6 | None Detected | | | | | | | | | |
| F6 | C5 | None Detected | | | | | | | | | |
| F6 | H3 | 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: 042404387
 Customer ID: TTDC42
 Customer PO: 1207085
 Project ID:

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

Phone: (703) 489-2674
 Fax:
 Received Date: 03/04/2024 08:50 AM
 Analysis Date: 03/05/2024
 Report Date: 03/06/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM02-022824-AB | Sample Description: |
| EMSL Sample Number: | 042404387-0012 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7028.0 |
| 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: P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | |
| Estimated Particulate Loading on Filter %: | 3 | |
| Target Analytical Sensitivity (Structures/cc): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0009 | Limit of Detection (Structures/cc): 0.0026 |

| 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 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |

| 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 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0026 | Not Applicable | - 0.0026 |

Comment
 Numerous gypsum fibers present.

Approved Signatory

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EMSL Order ID: 042404387
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042404387-0012 | | | | | Customer Sample: | | MFL-AM02-022824-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 | J8 | None Detected | | | | | | | | | |
| G2 | H7 | None Detected | | | | | | | | | |
| G2 | B6 | None Detected | | | | | | | | | |
| G3 | B4 | None Detected | | | | | | | | | |
| G3 | H3 | 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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 1560 Broadway, Suite 1400
 Denver, CO, 80202

Phone: (703) 489-2674
 Fax:
 Received Date: 03/04/2024 08:50 AM
 Analysis Date: 03/05/2024
 Report Date: 03/06/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--|--|
| Customer Sample Number: MFL-AM03-022824-AB | Sample Description: | |
| EMSL Sample Number: 042404387-0013 | Sample Matrix: Air | |
| Magnification used for fiber counting: 20,000 | Volume (L): 7217.9 | |
| 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: P. Harrison | |
| Minimum Level of analysis (amphibole): ADX | | |
| Estimated Particulate Loading on Filter %: 3 | | |
| Target Analytical Sensitivity (Structures/cc): 0.001 | | |
| Analytical Sensitivity (Structures/cc): 0.0008 | Limit of Detection (Structures/cc): 0.0025 | |

| 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 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |

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

EMSL Order ID: 042404387
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: 042404387-0013 | | Customer Sample: MFL-AM03-022824-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 | F7 | None Detected | | | | | | | | | |
| G5 | B8 | None Detected | | | | | | | | | |
| G6 | I7 | None Detected | | | | | | | | | |
| G6 | B9 | 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> / cinnaslab@EMSL.com

EMSL Order: 042404387
 Customer ID: TTDC42
 Customer PO: 1207085
 Project ID:

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

Phone: (703) 489-2674
 Fax:
 Received Date: 03/04/2024 08:50 AM
 Analysis Date: 03/05/2024
 Report Date: 03/06/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-AM04-022824-AB | Sample Description: |
| EMSL Sample Number: | 042404387-0014 | Sample Matrix: Air |
| Magnification used for fiber counting: | 20,000 | Volume (L): 7166.9 |
| 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: P. Harrison |
| Minimum Level of analysis (amphibole): | ADX | |
| Estimated Particulate Loading on Filter %: | 3 | |
| Target Analytical Sensitivity (Structures/cc): | 0.001 | |
| Analytical Sensitivity (Structures/cc): | 0.0008 | Limit of Detection (Structures/cc): 0.0025 |

| 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 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |

| 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 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0025 | Not Applicable | - 0.0025 |

Comment

Approved Signatory

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EMSL Order ID: 042404387
Client: Tetra Tech
Project ID: Maui Fires - Lahaina

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

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042404387-0014 | | | | | | Customer Sample: | | MFL-AM04-022824-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 | J9 | None Detected | | | | | | | | | |
| H2 | G7 | None Detected | | | | | | | | | |
| H2 | B6 | None Detected | | | | | | | | | |
| H3 | H7 | 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: 042404387
 Customer ID: TTDC42
 Customer PO: 1207085
 Project ID:

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

Phone: (703) 489-2674
 Fax:
 Received Date: 03/04/2024 08:50 AM
 Analysis Date: 03/05/2024
 Report Date: 03/06/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | | |
|--|--------------------|--|
| Customer Sample Number: | MFL-FB01-022824-AB | Sample Description: |
| EMSL Sample Number: | 042404387-0015 | 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): 0.0128 |
| 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): | 0.001 | |
| 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 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total All Structures | - | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |

| PCM EQUIVALENT (PCMe) STRUCTURES (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|---|------------------|---------------------|-------|------------------------------|-----------------------------------|---------------------------------|----------------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration S / mm ² | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |

Comment

Approved Signatory

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

EMSL Order ID: 042404387
 Client: Tetra Tech
 Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042404387-0015 | | | | | | Customer Sample: | | MFL-FB01-022824-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 | J7 | None Detected | | | | | | | | | |
| H5 | H5 | None Detected | | | | | | | | | |
| H5 | F4 | None Detected | | | | | | | | | |
| H5 | D3 | None Detected | | | | | | | | | |
| H5 | B2 | None Detected | | | | | | | | | |
| H6 | J2 | None Detected | | | | | | | | | |
| H6 | H3 | None Detected | | | | | | | | | |
| H6 | F2 | None Detected | | | | | | | | | |
| H6 | D3 | None Detected | | | | | | | | | |
| H6 | B1 | 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: 042404387
 Customer ID: TTDC42
 Customer PO: 1207085
 Project ID:

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

Phone: (703) 489-2674
 Fax:
 Received Date: 03/04/2024 08:50 AM
 Analysis Date: 03/05/2024
 Report Date: 03/06/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| Customer Sample Number: | Lab Blank | Sample Description: Lab Blank |
|--|----------------|--|
| EMSL Sample Number: | 042404387-0016 | 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): | 0.001 | |
| 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 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total All Structures | - | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |

| PCM EQUIVALENT (PCMe) STRUCTURES (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | |
|---|------------------|---------------------|-------|------------------------------|-----------------------------------|---------------------------------|----------------|
| | Minimum ID Level | Structures Detected | | Density (S/mm ²) | Concentration S / mm ² | 95 % Confidence Interval (S/cc) | |
| | | Primary | Total | | | Lower | Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Actinolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Amosite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Crocidolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Tremolite | ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Other Minerals | - | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.36 | < N/A | Not Applicable | Not Applicable |

Comment

Approved Signatory

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

EMSL Order ID: 042404387
 Client: Tetra Tech
 Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Analytical Bench Sheet Data

| EMSL Sample ID: | | 042404387-0016 | | 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 | J7 | None Detected | | | | | | | | | |
| A2 | I9 | None Detected | | | | | | | | | |
| A3 | D10 | None Detected | | | | | | | | | |
| A3 | F8 | None Detected | | | | | | | | | |
| A3 | H8 | None Detected | | | | | | | | | |
| A4 | J3 | None Detected | | | | | | | | | |
| A4 | H2 | None Detected | | | | | | | | | |
| A4 | F4 | None Detected | | | | | | | | | |
| A4 | D5 | None Detected | | | | | | | | | |
| A4 | B7 | None Detected | | | | | | | | | |

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



EMSL Order Number / Lab Use Only

#042404387

PHONE (800) 220-3675
EMAIL CinnAsstlab@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 Seiber</i> | Billing Contact: |
| | Street Address: <i>1560 Broadway Ste 1400</i> | Street Address: |
| | City, State, Zip: <i>Denver, CO 80202</i> Country: <i>USA</i> | City, State, Zip: _____ Country: _____ |
| | Phone: <i>703-489-2674</i> | Phone: _____ |
| Email(s) for Report: <i>chelsea.seiber@tetra.tech.com</i> | Email(s) for Invoice: _____ | |

RECEIVED
EMSL
CINNAMINSON, NJ
24 MAR - 4 AM 11:28

| | | |
|--|--|---|
| Project Name/No: <i>Mari Fines - Lohaina</i> | | Purchase Order: |
| EMSL LIMS Project ID: <small>(If applicable, EMSL will provide)</small> | US State where samples collected: | State of Connecticut (CT) must select project location: <input type="checkbox"/> Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable) |
| Sampled By Name: <i>Ella Kung'u Sidiya</i> | Sampled By Signature: <i>[Signature]</i> | No. of Samples in Shipment: <i>15</i> |

Turn-Around-Time (TAT)

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

HERA ONLY
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>Test Selection</p> <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-AM01-022624-AB | | 6,798.917 | 02/26/24 1101 |
| MFL-AM02-022624-AB | | 7,040.040 | 02/26/24 1121 |
| MFL-AM03-022624-AB | | 7,165.008 | 02/26/24 1309 |
| MFL-AM04-022624-AB | | 7,167.744 | 02/26/24 1331 |
| MFL-FB01-022624-AB | | 0 | 02/26/24 1200 |
| MFL-AM01-022724-AB | | 7,020.160 | 02/27/24 1101 |
| MFL-AM02-022724-AB | | 7,062.902 | 02/27/24 1122 |
| MFL-AM03-022724-AB | | 7,163.342 | 02/27/24 1315 |

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

All samples received acceptable for analysis.

| | |
|---|--|
| Method of Shipment: <i>FedEx</i> | Sample Condition Upon Receipt: |
| Relinquished by: <i>[Signature]</i> Date/Time: <i>02/27/24 1100</i> | Received by: <i>[Signature]</i> Date/Time: <i>3/4/24 850am</i> |
| 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.

[Handwritten Signature]

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

Reviewed by:

Kierra Johnson 3/8/2024 and Shanna Vasser 3/11/2024

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

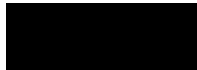
Collection date(s): 2/26/2024 - 2/28/2024

Report No: 42404387

- √ 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.
- NA 8. Result qualifiers and definitions are provided.
- √ 9. Result units are reported.
- √ 10. Requested reporting limits are present.
- NA 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: None.

Notes: None.



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

March 20, 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 03/04/24 13:11.

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: 03/20/24 12:21

SUBMITTED: 03/04/24

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> |
|-------------------------|------------------|---------------|----------------|-----------------|
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| MFL-AM01-022224-HM | 4030429-05 | Air | 02/22/24 23:59 | 03/04/24 13:11 |
| MFL-AM02-022224-HM | 4030429-06 | Air | 02/22/24 23:59 | 03/04/24 13:11 |
| MFL-AM03-022224-HM | 4030429-07 | Air | 02/22/24 23:59 | 03/04/24 13:11 |
| MFL-AM04-022224-HM | 4030429-08 | Air | 02/22/24 23:59 | 03/04/24 13:11 |
| MFL-AM01-022324-HM | 4030429-09 | Air | 02/23/24 23:59 | 03/04/24 13:11 |
| MFL-AM02-022324-HM | 4030429-10 | Air | 02/23/24 23:59 | 03/04/24 13:11 |
| MFL-AM03-022324-HM/MS/I | 4030429-11 | Air | 02/23/24 23:59 | 03/04/24 13:11 |
| MFL-AM04-022324-HM | 4030429-12 | Air | 02/23/24 23:59 | 03/04/24 13:11 |
| MFL-FB01-022324-HM | 4030429-13 | Air | 02/23/24 00:00 | 03/04/24 13:11 |
| MFL-AM01-022424-HM | 4030429-14 | Air | 02/24/24 23:59 | 03/04/24 13:11 |
| MFL-AM02-022424-HM | 4030429-15 | Air | 02/24/24 23:59 | 03/04/24 13:11 |
| MFL-AM03-022424-HM | 4030429-16 | Air | 02/24/24 23:59 | 03/04/24 13:11 |
| MFL-AM04-022424-HM | 4030429-17 | Air | 02/24/24 23:59 | 03/04/24 13:11 |
| MFL-AM01-022524-HM | 4030429-18 | Air | 02/25/24 23:59 | 03/04/24 13:11 |
| MFL-AM02-022524-HM | 4030429-19 | Air | 02/25/24 23:59 | 03/04/24 13:11 |
| MFL-AM03-022524-HM | 4030429-20 | Air | 02/25/24 23:59 | 03/04/24 13:11 |
| MFL-AM04-022524-HM | 4030429-21 | Air | 02/25/24 23:59 | 03/04/24 13:11 |

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

FILE #: 4205.00.003.001
REPORTED: 03/20/24 12:21
SUBMITTED: 03/04/24
AQS SITE CODE:

| PHONE: (703) 885-5495 | FAX: | | SITE CODE: | Lahaina fires |
|------------------------------|-------------|-----|-------------------|----------------|
| MFL-FB01-022524-HM | 4030429-22 | Air | 02/25/24 00:00 | 03/04/24 13:11 |
| MFL-AM01-022624-HM | 4030429-23 | Air | 02/26/24 23:59 | 03/04/24 13:11 |
| MFL-AM02-022624-HM | 4030429-24 | Air | 02/26/24 23:59 | 03/04/24 13:11 |
| MFL-AM03-022624-HM | 4030429-25 | Air | 02/26/24 23:59 | 03/04/24 13:11 |
| MFL-AM04-022624-HM | 4030429-26 | Air | 02/26/24 23:59 | 03/04/24 13:11 |
| MFL-AM01-022724-HM | 4030429-27 | Air | 02/27/24 23:59 | 03/04/24 13:11 |
| MFL-AM02-022724-HM | 4030429-28 | Air | 02/27/24 23:59 | 03/04/24 13:11 |
| MFL-AM03-022724-HM | 4030429-29 | Air | 02/27/24 23:59 | 03/04/24 13:11 |
| MFL-AM04-022724-HM | 4030429-30 | Air | 02/27/24 23:59 | 03/04/24 13:11 |
| MFL-FB01-022724-HM | 4030429-31 | Air | 02/27/24 00:00 | 03/04/24 13:11 |
| MFL-AM01-022824-HM/MS/I | 4030429-32 | Air | 02/28/24 23:59 | 03/04/24 13:11 |
| MFL-AM02-022824-HM | 4030429-33 | Air | 02/28/24 23:59 | 03/04/24 13:11 |
| MFL-AM03-022824-HM | 4030429-34 | Air | 02/28/24 23:59 | 03/04/24 13:11 |
| MFL-AM04-022824-HM | 4030429-35 | Air | 02/28/24 23:59 | 03/04/24 13:11 |

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 1777 Sentry Pkwy, Bldg 12
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 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM01-022224-HM **Lab ID:** 4030429-05 **Sampled:** 02/22/24 23:59
Matrix: Air **Sample Volume:** 2082.186 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 00:43
Comments: Q9545023 - Received in good condition.

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 | 0.146 | SL | 0.0302 | |
| Arsenic | 7440-38-2 | 1.01 | | 0.00732 | |
| Barium | 7440-39-3 | 2.85 | | 0.836 | |
| Beryllium | 7440-41-7 | 0.00574 | | 0.00250 | |
| Cadmium | 7440-43-9 | 0.0292 | U | 0.0579 | |
| Chromium | 7440-47-3 | 2.17 | | 1.73 | |
| Cobalt | 7440-48-4 | 0.223 | | 0.0341 | |
| Copper | 7440-50-8 | 36.0 | | 2.06 | |
| Lead | 7439-92-1 | 0.540 | | 0.167 | |
| Manganese | 7439-96-5 | 6.41 | | 1.48 | |
| Molybdenum | 7439-98-7 | 1.56 | | 0.281 | |
| Nickel | 7440-02-0 | 0.723 | | 0.509 | |
| Selenium | 7782-49-2 | 0.133 | | 0.00700 | |
| Thallium | 7440-28-0 | 8.91E-4 | QB-01 | 4.60E-4 | |
| Vanadium | 7440-62-2 | 0.818 | | 0.0413 | |
| Zinc | 7440-66-6 | 34.4 | U | 60.0 | |

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 Blue Bell, PA 19422
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 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM02-022224-HM **Lab ID:** 4030429-06 **Sampled:** 02/22/24 23:59
Matrix: Air **Sample Volume:** 2115.561 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 00:59
Comments: Q9545020 - Received in good condition.

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 | 0.234 | SL | 0.0297 | |
| Arsenic | 7440-38-2 | 0.462 | | 0.00721 | |
| Barium | 7440-39-3 | 4.55 | | 0.823 | |
| Beryllium | 7440-41-7 | 0.0125 | | 0.00246 | |
| Cadmium | 7440-43-9 | 0.0499 | U | 0.0570 | |
| Chromium | 7440-47-3 | 2.76 | | 1.70 | |
| Cobalt | 7440-48-4 | 0.422 | | 0.0335 | |
| Copper | 7440-50-8 | 23.1 | | 2.02 | |
| Lead | 7439-92-1 | 0.893 | | 0.165 | |
| Manganese | 7439-96-5 | 11.3 | | 1.45 | |
| Molybdenum | 7439-98-7 | 1.01 | | 0.276 | |
| Nickel | 7440-02-0 | 1.93 | | 0.501 | |
| Selenium | 7782-49-2 | 0.160 | | 0.00689 | |
| Thallium | 7440-28-0 | 0.00105 | QB-01 | 4.53E-4 | |
| Vanadium | 7440-62-2 | 1.38 | | 0.0407 | |
| Zinc | 7440-66-6 | 37.0 | U | 59.1 | |

CERTIFICATE OF ANALYSIS

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 Blue Bell, PA 19422
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 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM03-022224-HM **Lab ID:** 4030429-07 **Sampled:** 02/22/24 23:59
Matrix: Air **Sample Volume:** 1966.603 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 01:16
Comments: Q9545019 - Received in good condition.

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 | 0.213 | SL | 0.0319 | |
| Arsenic | 7440-38-2 | 0.712 | | 0.00775 | |
| Barium | 7440-39-3 | 3.88 | | 0.885 | |
| Beryllium | 7440-41-7 | 0.0319 | | 0.00265 | |
| Cadmium | 7440-43-9 | 0.0482 | U | 0.0613 | |
| Chromium | 7440-47-3 | 3.32 | | 1.83 | |
| Cobalt | 7440-48-4 | 0.528 | | 0.0361 | |
| Copper | 7440-50-8 | 56.5 | | 2.18 | |
| Lead | 7439-92-1 | 0.457 | | 0.177 | |
| Manganese | 7439-96-5 | 12.9 | | 1.56 | |
| Molybdenum | 7439-98-7 | 2.29 | | 0.297 | |
| Nickel | 7440-02-0 | 1.53 | | 0.539 | |
| Selenium | 7782-49-2 | 0.187 | | 0.00741 | |
| Thallium | 7440-28-0 | 0.00103 | QB-01 | 4.87E-4 | |
| Vanadium | 7440-62-2 | 1.46 | | 0.0438 | |
| Zinc | 7440-66-6 | 32.4 | U | 63.5 | |

CERTIFICATE OF ANALYSIS

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 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM04-022224-HM **Lab ID:** 4030429-08 **Sampled:** 02/22/24 23:59
Matrix: Air **Sample Volume:** 1997.093 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 01:31
Comments: Q9545018 - Received in good condition.

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 | 0.199 | SL | 0.0314 |
| Arsenic | 7440-38-2 | 0.460 | | 0.00763 |
| Barium | 7440-39-3 | 2.86 | | 0.872 |
| Beryllium | 7440-41-7 | 0.00726 | | 0.00261 |
| Cadmium | 7440-43-9 | 0.0361 | U | 0.0604 |
| Chromium | 7440-47-3 | 2.33 | | 1.80 |
| Cobalt | 7440-48-4 | 0.201 | | 0.0355 |
| Copper | 7440-50-8 | 19.3 | | 2.14 |
| Lead | 7439-92-1 | 0.646 | | 0.174 |
| Manganese | 7439-96-5 | 6.25 | | 1.54 |
| Molybdenum | 7439-98-7 | 1.06 | | 0.292 |
| Nickel | 7440-02-0 | 0.930 | | 0.531 |
| Selenium | 7782-49-2 | 0.138 | | 0.00730 |
| Thallium | 7440-28-0 | 7.76E-4 | QB-01 | 4.80E-4 |
| Vanadium | 7440-62-2 | 0.881 | | 0.0431 |
| Zinc | 7440-66-6 | 35.2 | 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: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM01-022324-HM **Lab ID:** 4030429-09 **Sampled:** 02/23/24 23:59
Matrix: Air **Sample Volume:** 2238.375 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 01:47

Comments: Q9545016- Received in good condition.

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 | 0.0359 | SL | 0.0281 | |
| Arsenic | 7440-38-2 | 0.275 | | 0.00681 | |
| Barium | 7440-39-3 | 1.56 | | 0.778 | |
| Beryllium | 7440-41-7 | 0.00298 | | 0.00233 | |
| Cadmium | 7440-43-9 | 0.00703 | U | 0.0539 | |
| Chromium | 7440-47-3 | 1.81 | | 1.61 | |
| Cobalt | 7440-48-4 | 0.209 | | 0.0317 | |
| Copper | 7440-50-8 | 37.8 | | 1.91 | |
| Lead | 7439-92-1 | 0.301 | | 0.156 | |
| Manganese | 7439-96-5 | 2.74 | | 1.37 | |
| Molybdenum | 7439-98-7 | 1.44 | | 0.261 | |
| Nickel | 7440-02-0 | 0.576 | | 0.474 | |
| Selenium | 7782-49-2 | 0.0862 | | 0.00651 | |
| Thallium | 7440-28-0 | 5.02E-4 | QB-01 | 4.28E-4 | |
| Vanadium | 7440-62-2 | 0.423 | | 0.0385 | |
| Zinc | 7440-66-6 | 42.5 | U | 55.8 | |

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: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM02-022324-HM **Lab ID:** 4030429-10 **Sampled:** 02/23/24 23:59
Matrix: Air **Sample Volume:** 2170.834 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 02:02
Comments: Q9545013- Received in good condition.

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 | 0.109 | SL | 0.0289 | |
| Arsenic | 7440-38-2 | 0.227 | | 0.00702 | |
| Barium | 7440-39-3 | 4.19 | | 0.802 | |
| Beryllium | 7440-41-7 | 0.00811 | | 0.00240 | |
| Cadmium | 7440-43-9 | 0.0134 | U | 0.0555 | |
| Chromium | 7440-47-3 | 2.25 | | 1.66 | |
| Cobalt | 7440-48-4 | 0.280 | | 0.0327 | |
| Copper | 7440-50-8 | 21.7 | | 1.97 | |
| Lead | 7439-92-1 | 0.588 | | 0.160 | |
| Manganese | 7439-96-5 | 7.72 | | 1.42 | |
| Molybdenum | 7439-98-7 | 1.02 | | 0.269 | |
| Nickel | 7440-02-0 | 1.18 | | 0.489 | |
| Selenium | 7782-49-2 | 0.154 | | 0.00672 | |
| Thallium | 7440-28-0 | 7.42E-4 | QB-01 | 4.41E-4 | |
| Vanadium | 7440-62-2 | 1.02 | | 0.0396 | |
| Zinc | 7440-66-6 | 35.6 | U | 57.6 | |

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: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM03-022324-HM/MS/MS **Lab ID:** 4030429-11 **Sampled:** 02/23/24 23:59
Matrix: Air **Sample Volume:** 1934.051 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/05/24 17:12
Comments: Q9545011- Received in good condition.

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 | 0.0473 | SL | 0.0325 | |
| Arsenic | 7440-38-2 | 0.319 | | 0.00788 | |
| Barium | 7440-39-3 | 3.25 | | 0.900 | |
| Beryllium | 7440-41-7 | 0.0234 | | 0.00269 | |
| Cadmium | 7440-43-9 | 0.00891 | U | 0.0623 | |
| Chromium | 7440-47-3 | 3.05 | | 1.86 | |
| Cobalt | 7440-48-4 | 0.424 | | 0.0367 | |
| Copper | 7440-50-8 | 45.4 | | 2.21 | |
| Lead | 7439-92-1 | 0.405 | | 0.180 | |
| Manganese | 7439-96-5 | 9.52 | | 1.59 | |
| Molybdenum | 7439-98-7 | 2.19 | | 0.302 | |
| Nickel | 7440-02-0 | 1.55 | | 0.548 | |
| Selenium | 7782-49-2 | 0.162 | | 0.00754 | |
| Thallium | 7440-28-0 | 8.02E-4 | QB-01 | 4.95E-4 | |
| Vanadium | 7440-62-2 | 1.18 | | 0.0445 | |
| Zinc | 7440-66-6 | 32.2 | U | 64.6 | |

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FILE #: 4205.00.003.001
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 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM04-022324-HM **Lab ID:** 4030429-12 **Sampled:** 02/23/24 23:59
Matrix: Air **Sample Volume:** 1897.505 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 03:27
Comments: Q9545009- Received in good condition.

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 | 0.0557 | SL | 0.0331 | |
| Arsenic | 7440-38-2 | 0.180 | | 0.00803 | |
| Barium | 7440-39-3 | 2.58 | | 0.917 | |
| Beryllium | 7440-41-7 | 0.00682 | | 0.00274 | |
| Cadmium | 7440-43-9 | 0.00909 | U | 0.0635 | |
| Chromium | 7440-47-3 | 2.31 | | 1.89 | |
| Cobalt | 7440-48-4 | 0.194 | | 0.0374 | |
| Copper | 7440-50-8 | 26.5 | | 2.26 | |
| Lead | 7439-92-1 | 0.616 | | 0.183 | |
| Manganese | 7439-96-5 | 5.99 | | 1.62 | |
| Molybdenum | 7439-98-7 | 1.22 | | 0.308 | |
| Nickel | 7440-02-0 | 0.753 | | 0.559 | |
| Selenium | 7782-49-2 | 0.144 | | 0.00768 | |
| Thallium | 7440-28-0 | 8.42E-4 | QB-01 | 5.05E-4 | |
| Vanadium | 7440-62-2 | 0.774 | | 0.0454 | |
| Zinc | 7440-66-6 | 43.3 | U | 65.9 | |

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: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-FB01-022324-HM **Lab ID:** 4030429-13 **Sampled:** 02/23/24 00:00
Matrix: Air **Sample Volume:** 2238.375 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 03:42
Comments: Q9545003- Received in good condition.

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 | 0.00625 | SL, U | 0.0281 | |
| Arsenic | 7440-38-2 | 0.00446 | U | 0.00681 | |
| Barium | 7440-39-3 | 0.485 | U | 0.778 | |
| Beryllium | 7440-41-7 | 8.86E-4 | U | 0.00233 | |
| Cadmium | 7440-43-9 | 0.00231 | U | 0.0539 | |
| Chromium | 7440-47-3 | 1.68 | FB-01 | 1.61 | |
| Cobalt | 7440-48-4 | 0.0229 | U | 0.0317 | |
| Copper | 7440-50-8 | 2.05 | FB-01 | 1.91 | |
| Lead | 7439-92-1 | 0.0897 | U | 0.156 | |
| Manganese | 7439-96-5 | 0.175 | U | 1.37 | |
| Molybdenum | 7439-98-7 | 0.236 | U | 0.261 | |
| Nickel | 7440-02-0 | 0.228 | U | 0.474 | |
| Selenium | 7782-49-2 | 0.00289 | U | 0.00651 | |
| Thallium | 7440-28-0 | 1.91E-4 | QB-01, U | 4.28E-4 | |
| Vanadium | 7440-62-2 | 0.0157 | U | 0.0385 | |
| Zinc | 7440-66-6 | 18.5 | U | 55.8 | |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM01-022424-HM **Lab ID:** 4030429-14 **Sampled:** 02/24/24 23:59
Matrix: Air **Sample Volume:** 1940.503 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 03:58
Comments: Q9545008- Received in good condition.

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 | 0.0745 | SL | 0.0324 | |
| Arsenic | 7440-38-2 | 0.484 | | 0.00786 | |
| Barium | 7440-39-3 | 13.2 | | 0.897 | |
| Beryllium | 7440-41-7 | 0.00886 | | 0.00268 | |
| Cadmium | 7440-43-9 | 0.0126 | U | 0.0621 | |
| Chromium | 7440-47-3 | 2.48 | | 1.85 | |
| Cobalt | 7440-48-4 | 0.300 | | 0.0366 | |
| Copper | 7440-50-8 | 46.9 | | 2.21 | |
| Lead | 7439-92-1 | 0.632 | | 0.179 | |
| Manganese | 7439-96-5 | 9.26 | | 1.58 | |
| Molybdenum | 7439-98-7 | 2.93 | | 0.301 | |
| Nickel | 7440-02-0 | 1.05 | | 0.547 | |
| Selenium | 7782-49-2 | 0.143 | | 0.00751 | |
| Thallium | 7440-28-0 | 8.95E-4 | QB-01 | 4.94E-4 | |
| Vanadium | 7440-62-2 | 0.930 | | 0.0444 | |
| Zinc | 7440-66-6 | 24.3 | U | 64.4 | |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM02-022424-HM **Lab ID:** 4030429-15 **Sampled:** 02/24/24 23:59
Matrix: Air **Sample Volume:** 1950.897 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 04:14

Comments: Q9545007- Received in good condition.

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 | 0.0963 | SL | 0.0322 |
| Arsenic | 7440-38-2 | 0.237 | | 0.00781 |
| Barium | 7440-39-3 | 4.09 | | 0.892 |
| Beryllium | 7440-41-7 | 0.0104 | | 0.00267 |
| Cadmium | 7440-43-9 | 0.0229 | U | 0.0618 |
| Chromium | 7440-47-3 | 2.47 | | 1.84 |
| Cobalt | 7440-48-4 | 0.321 | | 0.0364 |
| Copper | 7440-50-8 | 27.2 | | 2.19 |
| Lead | 7439-92-1 | 0.635 | | 0.178 |
| Manganese | 7439-96-5 | 9.89 | | 1.58 |
| Molybdenum | 7439-98-7 | 1.58 | | 0.299 |
| Nickel | 7440-02-0 | 1.21 | | 0.544 |
| Selenium | 7782-49-2 | 0.161 | | 0.00747 |
| Thallium | 7440-28-0 | 0.00111 | QB-01 | 4.91E-4 |
| Vanadium | 7440-62-2 | 1.03 | | 0.0441 |
| Zinc | 7440-66-6 | 36.5 | U | 64.0 |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM03-022424-HM **Lab ID:** 4030429-16 **Sampled:** 02/24/24 23:59
Matrix: Air **Sample Volume:** 2112.661 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 04:45

Comments: Q9545006- Received in good condition.

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 | 0.0295 | SL, U | 0.0297 | |
| Arsenic | 7440-38-2 | 0.149 | | 0.00722 | |
| Barium | 7440-39-3 | 2.01 | | 0.824 | |
| Beryllium | 7440-41-7 | 0.0117 | | 0.00246 | |
| Cadmium | 7440-43-9 | 0.00826 | U | 0.0571 | |
| Chromium | 7440-47-3 | 2.27 | | 1.70 | |
| Cobalt | 7440-48-4 | 0.239 | | 0.0336 | |
| Copper | 7440-50-8 | 39.4 | | 2.03 | |
| Lead | 7439-92-1 | 0.264 | | 0.165 | |
| Manganese | 7439-96-5 | 6.54 | | 1.46 | |
| Molybdenum | 7439-98-7 | 1.68 | | 0.276 | |
| Nickel | 7440-02-0 | 0.876 | | 0.502 | |
| Selenium | 7782-49-2 | 0.130 | | 0.00690 | |
| Thallium | 7440-28-0 | 7.03E-4 | QB-01 | 4.54E-4 | |
| Vanadium | 7440-62-2 | 0.741 | | 0.0407 | |
| Zinc | 7440-66-6 | 21.1 | U | 59.1 | |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM04-022424-HM **Lab ID:** 4030429-17 **Sampled:** 02/24/24 23:59
Matrix: Air **Sample Volume:** 1779.407 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 04:59

Comments: Q9545002- Received in good condition.

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 | 0.0741 | SL | 0.0353 | |
| Arsenic | 7440-38-2 | 0.780 | | 0.00857 | |
| Barium | 7440-39-3 | 3.61 | | 0.978 | |
| Beryllium | 7440-41-7 | 0.0112 | | 0.00293 | |
| Cadmium | 7440-43-9 | 0.0127 | U | 0.0678 | |
| Chromium | 7440-47-3 | 3.18 | | 2.02 | |
| Cobalt | 7440-48-4 | 0.340 | | 0.0399 | |
| Copper | 7440-50-8 | 31.1 | | 2.40 | |
| Lead | 7439-92-1 | 1.63 | | 0.196 | |
| Manganese | 7439-96-5 | 10.9 | | 1.73 | |
| Molybdenum | 7439-98-7 | 1.12 | | 0.328 | |
| Nickel | 7440-02-0 | 1.09 | | 0.596 | |
| Selenium | 7782-49-2 | 0.150 | | 0.00819 | |
| Thallium | 7440-28-0 | 9.78E-4 | QB-01 | 5.39E-4 | |
| Vanadium | 7440-62-2 | 1.09 | | 0.0484 | |
| Zinc | 7440-66-6 | 33.2 | U | 70.2 | |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM01-022524-HM **Lab ID:** 4030429-18 **Sampled:** 02/25/24 23:59
Matrix: Air **Sample Volume:** 1987.062 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 05:15

Comments: Q9545001- Received in good condition.

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 | 0.0354 | SL | 0.0316 | |
| Arsenic | 7440-38-2 | 0.586 | | 0.00767 | |
| Barium | 7440-39-3 | 1.89 | | 0.876 | |
| Beryllium | 7440-41-7 | 0.00423 | | 0.00262 | |
| Cadmium | 7440-43-9 | 0.0147 | U | 0.0607 | |
| Chromium | 7440-47-3 | 2.00 | | 1.81 | |
| Cobalt | 7440-48-4 | 0.132 | | 0.0357 | |
| Copper | 7440-50-8 | 53.8 | | 2.15 | |
| Lead | 7439-92-1 | 0.405 | | 0.175 | |
| Manganese | 7439-96-5 | 4.04 | | 1.55 | |
| Molybdenum | 7439-98-7 | 4.04 | | 0.294 | |
| Nickel | 7440-02-0 | 0.588 | | 0.534 | |
| Selenium | 7782-49-2 | 0.115 | | 0.00734 | |
| Thallium | 7440-28-0 | 8.31E-4 | QB-01 | 4.82E-4 | |
| Vanadium | 7440-62-2 | 0.357 | | 0.0433 | |
| Zinc | 7440-66-6 | 26.3 | U | 62.9 | |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM02-022524-HM **Lab ID:** 4030429-19 **Sampled:** 02/25/24 23:59
Matrix: Air **Sample Volume:** 2086.037 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 05:30

Comments: Q9537249- Received in good condition.

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 | 0.0924 | SL | 0.0301 |
| Arsenic | 7440-38-2 | 0.219 | | 0.00731 |
| Barium | 7440-39-3 | 3.62 | | 0.835 |
| Beryllium | 7440-41-7 | 0.00631 | | 0.00250 |
| Cadmium | 7440-43-9 | 0.0104 | U | 0.0578 |
| Chromium | 7440-47-3 | 2.10 | | 1.72 |
| Cobalt | 7440-48-4 | 0.162 | | 0.0340 |
| Copper | 7440-50-8 | 33.3 | | 2.05 |
| Lead | 7439-92-1 | 0.495 | | 0.167 |
| Manganese | 7439-96-5 | 5.12 | | 1.47 |
| Molybdenum | 7439-98-7 | 1.85 | | 0.280 |
| Nickel | 7440-02-0 | 0.725 | | 0.509 |
| Selenium | 7782-49-2 | 0.166 | | 0.00699 |
| Thallium | 7440-28-0 | 9.83E-4 | QB-01 | 4.59E-4 |
| Vanadium | 7440-62-2 | 0.476 | | 0.0413 |
| Zinc | 7440-66-6 | 26.5 | U | 59.9 |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM03-022524-HM **Lab ID:** 4030429-20 **Sampled:** 02/25/24 23:59
Matrix: Air **Sample Volume:** 2199.916 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 05:45

Comments: Q9537259- Received in good condition.

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 | 0.0289 | SL | 0.0285 | |
| Arsenic | 7440-38-2 | 0.126 | | 0.00693 | |
| Barium | 7440-39-3 | 1.68 | | 0.791 | |
| Beryllium | 7440-41-7 | 0.00513 | | 0.00237 | |
| Cadmium | 7440-43-9 | 0.00907 | U | 0.0548 | |
| Chromium | 7440-47-3 | 1.68 | | 1.63 | |
| Cobalt | 7440-48-4 | 0.169 | | 0.0322 | |
| Copper | 7440-50-8 | 39.8 | | 1.95 | |
| Lead | 7439-92-1 | 0.299 | | 0.158 | |
| Manganese | 7439-96-5 | 2.92 | | 1.40 | |
| Molybdenum | 7439-98-7 | 1.46 | | 0.266 | |
| Nickel | 7440-02-0 | 0.612 | | 0.482 | |
| Selenium | 7782-49-2 | 0.130 | | 0.00663 | |
| Thallium | 7440-28-0 | 7.56E-4 | QB-01 | 4.36E-4 | |
| Vanadium | 7440-62-2 | 0.276 | | 0.0391 | |
| Zinc | 7440-66-6 | 18.0 | U | 56.8 | |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM04-022524-HM **Lab ID:** 4030429-21 **Sampled:** 02/25/24 23:59
Matrix: Air **Sample Volume:** 1549.608 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 06:49
Comments: Q9537258- Received in good condition.

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 | 0.0473 | SL | 0.0405 | |
| Arsenic | 7440-38-2 | 0.130 | | 0.00984 | |
| Barium | 7440-39-3 | 2.01 | | 1.12 | |
| Beryllium | 7440-41-7 | 0.00376 | | 0.00336 | |
| Cadmium | 7440-43-9 | 0.00946 | U | 0.0778 | |
| Chromium | 7440-47-3 | 2.23 | U | 2.32 | |
| Cobalt | 7440-48-4 | 0.0968 | | 0.0458 | |
| Copper | 7440-50-8 | 30.1 | | 2.76 | |
| Lead | 7439-92-1 | 0.449 | | 0.225 | |
| Manganese | 7439-96-5 | 2.55 | | 1.98 | |
| Molybdenum | 7439-98-7 | 1.13 | | 0.377 | |
| Nickel | 7440-02-0 | 0.535 | U | 0.685 | |
| Selenium | 7782-49-2 | 0.135 | | 0.00941 | |
| Thallium | 7440-28-0 | 9.20E-4 | QB-01 | 6.18E-4 | |
| Vanadium | 7440-62-2 | 0.257 | | 0.0555 | |
| Zinc | 7440-66-6 | 28.4 | U | 80.6 | |

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FILE #: 4205.00.003.001
REPORTED: 03/20/24 12:21
SUBMITTED: 03/04/24
AQS SITE CODE:
SITE CODE: Lahaina fires

Description: MFL-FB01-022524-HM **Lab ID:** 4030429-22 **Sampled:** 02/25/24 00:00
Matrix: Air **Sample Volume:** 1987.062 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 07:04
Comments: Q9537251- Received in good condition.

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 | 0.00647 | SL, U | 0.0316 |
| Arsenic | 7440-38-2 | 0.00484 | U | 0.00767 |
| Barium | 7440-39-3 | 0.805 | U | 0.876 |
| Beryllium | 7440-41-7 | 8.71E-4 | U | 0.00262 |
| Cadmium | 7440-43-9 | 0.00302 | U | 0.0607 |
| Chromium | 7440-47-3 | 1.53 | U | 1.81 |
| Cobalt | 7440-48-4 | 0.0221 | U | 0.0357 |
| Copper | 7440-50-8 | 1.03 | U | 2.15 |
| Lead | 7439-92-1 | 0.0755 | U | 0.175 |
| Manganese | 7439-96-5 | 0.163 | U | 1.55 |
| Molybdenum | 7439-98-7 | 0.261 | U | 0.294 |
| Nickel | 7440-02-0 | 0.244 | U | 0.534 |
| Selenium | 7782-49-2 | 0.00298 | U | 0.00734 |
| Thallium | 7440-28-0 | 2.01E-4 | QB-01, U | 4.82E-4 |
| Vanadium | 7440-62-2 | 0.0204 | U | 0.0433 |
| Zinc | 7440-66-6 | 25.2 | U | 62.9 |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM01-022624-HM **Lab ID:** 4030429-23 **Sampled:** 02/26/24 23:59
Matrix: Air **Sample Volume:** 1999.994 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 07:19

Comments: Q9537254- Received in good condition.

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 | 0.0408 | SL | 0.0314 |
| Arsenic | 7440-38-2 | 1.13 | | 0.00762 |
| Barium | 7440-39-3 | 3.13 | | 0.870 |
| Beryllium | 7440-41-7 | 0.00945 | | 0.00260 |
| Cadmium | 7440-43-9 | 0.0198 | U | 0.0603 |
| Chromium | 7440-47-3 | 2.94 | | 1.80 |
| Cobalt | 7440-48-4 | 0.332 | | 0.0355 |
| Copper | 7440-50-8 | 55.4 | | 2.14 |
| Lead | 7439-92-1 | 0.530 | | 0.174 |
| Manganese | 7439-96-5 | 9.41 | | 1.54 |
| Molybdenum | 7439-98-7 | 3.86 | | 0.292 |
| Nickel | 7440-02-0 | 0.939 | | 0.530 |
| Selenium | 7782-49-2 | 0.156 | | 0.00729 |
| Thallium | 7440-28-0 | 0.00115 | QB-01 | 4.79E-4 |
| Vanadium | 7440-62-2 | 0.878 | | 0.0430 |
| Zinc | 7440-66-6 | 24.4 | U | 62.5 |

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: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM02-022624-HM **Lab ID:** 4030429-24 **Sampled:** 02/26/24 23:59
Matrix: Air **Sample Volume:** 2114.089 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 07:33

Comments: Q9537253- Received in good condition.

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 | 0.137 | SL | 0.0297 | |
| Arsenic | 7440-38-2 | 0.310 | | 0.00721 | |
| Barium | 7440-39-3 | 5.97 | | 0.823 | |
| Beryllium | 7440-41-7 | 0.0118 | | 0.00246 | |
| Cadmium | 7440-43-9 | 0.0143 | U | 0.0570 | |
| Chromium | 7440-47-3 | 2.69 | | 1.70 | |
| Cobalt | 7440-48-4 | 0.420 | | 0.0336 | |
| Copper | 7440-50-8 | 30.2 | | 2.02 | |
| Lead | 7439-92-1 | 0.727 | | 0.165 | |
| Manganese | 7439-96-5 | 11.0 | | 1.45 | |
| Molybdenum | 7439-98-7 | 1.93 | | 0.276 | |
| Nickel | 7440-02-0 | 1.40 | | 0.502 | |
| Selenium | 7782-49-2 | 0.174 | | 0.00690 | |
| Thallium | 7440-28-0 | 0.00112 | QB-01 | 4.53E-4 | |
| Vanadium | 7440-62-2 | 1.04 | | 0.0407 | |
| Zinc | 7440-66-6 | 29.4 | U | 59.1 | |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM03-022624-HM **Lab ID:** 4030429-25 **Sampled:** 02/26/24 23:59
Matrix: Air **Sample Volume:** 2186.5 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 07:48
Comments: Q9537252- Received in good condition.

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 | 0.0351 | SL | 0.0287 | |
| Arsenic | 7440-38-2 | 0.175 | | 0.00697 | |
| Barium | 7440-39-3 | 2.43 | | 0.796 | |
| Beryllium | 7440-41-7 | 0.0222 | | 0.00238 | |
| Cadmium | 7440-43-9 | 0.00968 | U | 0.0551 | |
| Chromium | 7440-47-3 | 2.68 | | 1.64 | |
| Cobalt | 7440-48-4 | 0.414 | | 0.0324 | |
| Copper | 7440-50-8 | 38.0 | | 1.96 | |
| Lead | 7439-92-1 | 0.482 | | 0.159 | |
| Manganese | 7439-96-5 | 8.99 | | 1.41 | |
| Molybdenum | 7439-98-7 | 1.38 | | 0.267 | |
| Nickel | 7440-02-0 | 1.09 | | 0.485 | |
| Selenium | 7782-49-2 | 0.151 | | 0.00667 | |
| Thallium | 7440-28-0 | 9.59E-4 | QB-01 | 4.38E-4 | |
| Vanadium | 7440-62-2 | 0.839 | | 0.0394 | |
| Zinc | 7440-66-6 | 22.8 | U | 57.1 | |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM04-022624-HM **Lab ID:** 4030429-26 **Sampled:** 02/26/24 23:59
Matrix: Air **Sample Volume:** 1869.937 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 08:04
Comments: Q9544998- Received in good condition.

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 | 0.0581 | SL | 0.0336 |
| Arsenic | 7440-38-2 | 0.174 | | 0.00815 |
| Barium | 7440-39-3 | 2.68 | | 0.931 |
| Beryllium | 7440-41-7 | 0.00611 | | 0.00278 |
| Cadmium | 7440-43-9 | 0.0106 | U | 0.0645 |
| Chromium | 7440-47-3 | 2.10 | | 1.92 |
| Cobalt | 7440-48-4 | 0.158 | | 0.0379 |
| Copper | 7440-50-8 | 30.1 | | 2.29 |
| Lead | 7439-92-1 | 0.621 | | 0.186 |
| Manganese | 7439-96-5 | 4.77 | | 1.64 |
| Molybdenum | 7439-98-7 | 1.09 | | 0.312 |
| Nickel | 7440-02-0 | 0.629 | | 0.567 |
| Selenium | 7782-49-2 | 0.135 | | 0.00780 |
| Thallium | 7440-28-0 | 8.25E-4 | QB-01 | 5.12E-4 |
| Vanadium | 7440-62-2 | 0.396 | | 0.0460 |
| Zinc | 7440-66-6 | 24.6 | U | 66.8 |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM01-022724-HM **Lab ID:** 4030429-27 **Sampled:** 02/27/24 23:59
Matrix: Air **Sample Volume:** 2016.236 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 08:36

Comments: Q9544997- Received in good condition.

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 | 0.0437 | SL | 0.0311 |
| Arsenic | 7440-38-2 | 0.487 | | 0.00756 |
| Barium | 7440-39-3 | 2.72 | | 0.863 |
| Beryllium | 7440-41-7 | 0.00911 | | 0.00258 |
| Cadmium | 7440-43-9 | 0.0127 | U | 0.0598 |
| Chromium | 7440-47-3 | 3.01 | | 1.78 |
| Cobalt | 7440-48-4 | 0.336 | | 0.0352 |
| Copper | 7440-50-8 | 36.2 | | 2.12 |
| Lead | 7439-92-1 | 0.414 | | 0.173 |
| Manganese | 7439-96-5 | 9.69 | | 1.53 |
| Molybdenum | 7439-98-7 | 1.84 | | 0.290 |
| Nickel | 7440-02-0 | 1.05 | | 0.526 |
| Selenium | 7782-49-2 | 0.151 | | 0.00723 |
| Thallium | 7440-28-0 | 0.00119 | QB-01 | 4.75E-4 |
| Vanadium | 7440-62-2 | 0.844 | | 0.0427 |
| Zinc | 7440-66-6 | 18.8 | U | 62.0 |

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 ATTN: Ms. Chelsea Saber
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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM02-022724-HM **Lab ID:** 4030429-28 **Sampled:** 02/27/24 23:59
Matrix: Air **Sample Volume:** 2064.893 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 08:51

Comments: Q9544996- Received in good condition.

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 | 0.0836 | SL | 0.0304 |
| Arsenic | 7440-38-2 | 0.490 | | 0.00738 |
| Barium | 7440-39-3 | 5.87 | | 0.843 |
| Beryllium | 7440-41-7 | 0.0189 | | 0.00252 |
| Cadmium | 7440-43-9 | 0.0907 | | 0.0584 |
| Chromium | 7440-47-3 | 3.81 | | 1.74 |
| Cobalt | 7440-48-4 | 0.771 | | 0.0344 |
| Copper | 7440-50-8 | 30.9 | | 2.07 |
| Lead | 7439-92-1 | 1.18 | | 0.169 |
| Manganese | 7439-96-5 | 19.6 | | 1.49 |
| Molybdenum | 7439-98-7 | 1.62 | | 0.283 |
| Nickel | 7440-02-0 | 2.97 | | 0.514 |
| Selenium | 7782-49-2 | 0.215 | | 0.00706 |
| Thallium | 7440-28-0 | 0.00149 | QB-01 | 4.64E-4 |
| Vanadium | 7440-62-2 | 1.77 | | 0.0417 |
| Zinc | 7440-66-6 | 35.0 | U | 60.5 |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM03-022724-HM **Lab ID:** 4030429-29 **Sampled:** 02/27/24 23:59
Matrix: Air **Sample Volume:** 2148.517 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 09:07

Comments: Q9554717- Received in good condition.

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 | 0.0376 | SL | 0.0292 | |
| Arsenic | 7440-38-2 | 0.319 | | 0.00710 | |
| Barium | 7440-39-3 | 4.83 | | 0.810 | |
| Beryllium | 7440-41-7 | 0.0719 | | 0.00242 | |
| Cadmium | 7440-43-9 | 0.0186 | U | 0.0561 | |
| Chromium | 7440-47-3 | 4.90 | | 1.67 | |
| Cobalt | 7440-48-4 | 1.01 | | 0.0330 | |
| Copper | 7440-50-8 | 33.8 | | 1.99 | |
| Lead | 7439-92-1 | 0.582 | | 0.162 | |
| Manganese | 7439-96-5 | 21.6 | | 1.43 | |
| Molybdenum | 7439-98-7 | 1.31 | | 0.272 | |
| Nickel | 7440-02-0 | 2.32 | | 0.494 | |
| Selenium | 7782-49-2 | 0.283 | | 0.00679 | |
| Thallium | 7440-28-0 | 0.00156 | QB-01 | 4.46E-4 | |
| Vanadium | 7440-62-2 | 2.34 | | 0.0401 | |
| Zinc | 7440-66-6 | 23.6 | U | 58.2 | |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM04-022724-HM **Lab ID:** 4030429-30 **Sampled:** 02/27/24 23:59
Matrix: Air **Sample Volume:** 1859.012 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 10:13
Comments: Q9554716- Received in good condition.

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 | 0.0511 | SL | 0.0338 |
| Arsenic | 7440-38-2 | 0.347 | | 0.00820 |
| Barium | 7440-39-3 | 3.73 | | 0.936 |
| Beryllium | 7440-41-7 | 0.0145 | | 0.00280 |
| Cadmium | 7440-43-9 | 0.0220 | U | 0.0649 |
| Chromium | 7440-47-3 | 2.92 | | 1.93 |
| Cobalt | 7440-48-4 | 0.442 | | 0.0382 |
| Copper | 7440-50-8 | 25.0 | | 2.30 |
| Lead | 7439-92-1 | 0.987 | | 0.187 |
| Manganese | 7439-96-5 | 13.5 | | 1.65 |
| Molybdenum | 7439-98-7 | 0.961 | | 0.314 |
| Nickel | 7440-02-0 | 1.23 | | 0.571 |
| Selenium | 7782-49-2 | 0.192 | | 0.00784 |
| Thallium | 7440-28-0 | 0.00142 | QB-01 | 5.15E-4 |
| Vanadium | 7440-62-2 | 1.11 | | 0.0463 |
| Zinc | 7440-66-6 | 29.2 | U | 67.2 |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-FB01-022724-HM **Lab ID:** 4030429-31 **Sampled:** 02/27/24 00:00
Matrix: Air **Sample Volume:** 2016.236 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 10:29
Comments: Q9554714- Received in good condition.

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 | 0.00679 | SL, U | 0.0311 | |
| Arsenic | 7440-38-2 | 0.00659 | U | 0.00756 | |
| Barium | 7440-39-3 | 0.624 | U | 0.863 | |
| Beryllium | 7440-41-7 | 0.00121 | U | 0.00258 | |
| Cadmium | 7440-43-9 | 0.00143 | U | 0.0598 | |
| Chromium | 7440-47-3 | 1.24 | U | 1.78 | |
| Cobalt | 7440-48-4 | 0.0199 | U | 0.0352 | |
| Copper | 7440-50-8 | 0.931 | U | 2.12 | |
| Lead | 7439-92-1 | 0.0695 | U | 0.173 | |
| Manganese | 7439-96-5 | 0.312 | U | 1.53 | |
| Molybdenum | 7439-98-7 | 0.230 | U | 0.290 | |
| Nickel | 7440-02-0 | 0.264 | U | 0.526 | |
| Selenium | 7782-49-2 | 0.00242 | U | 0.00723 | |
| Thallium | 7440-28-0 | 1.81E-4 | QB-01, U | 4.75E-4 | |
| Vanadium | 7440-62-2 | 0.0179 | U | 0.0427 | |
| Zinc | 7440-66-6 | 16.4 | U | 62.0 | |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM01-022824-HM/MS/MS **Lab ID:** 4030429-32 **Sampled:** 02/28/24 23:59
Matrix: Air **Sample Volume:** 1972.928 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/05/24 20:56

Comments: Q9554715- Received in good condition.

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 | 0.0425 | SL | 0.0318 | |
| Arsenic | 7440-38-2 | 0.569 | | 0.00773 | |
| Barium | 7440-39-3 | 4.20 | | 0.882 | |
| Beryllium | 7440-41-7 | 0.0117 | | 0.00264 | |
| Cadmium | 7440-43-9 | 0.0247 | U | 0.0611 | |
| Chromium | 7440-47-3 | 2.85 | | 1.82 | |
| Cobalt | 7440-48-4 | 0.535 | | 0.0360 | |
| Copper | 7440-50-8 | 59.3 | QM-07 | 2.17 | |
| Lead | 7439-92-1 | 1.39 | | 0.176 | |
| Manganese | 7439-96-5 | 12.7 | | 1.56 | |
| Molybdenum | 7439-98-7 | 2.22 | | 0.296 | |
| Nickel | 7440-02-0 | 1.18 | | 0.538 | |
| Selenium | 7782-49-2 | 0.153 | | 0.00739 | |
| Thallium | 7440-28-0 | 0.00151 | QB-01 | 4.86E-4 | |
| Vanadium | 7440-62-2 | 1.14 | | 0.0436 | |
| Zinc | 7440-66-6 | 32.6 | U | 63.3 | |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM02-022824-HM **Lab ID:** 4030429-33 **Sampled:** 02/28/24 23:59
Matrix: Air **Sample Volume:** 2012.102 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 10:43
Comments: Q9554713- Received in good condition.

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 | 0.0778 | SL | 0.0312 |
| Arsenic | 7440-38-2 | 0.313 | | 0.00758 |
| Barium | 7440-39-3 | 3.46 | | 0.865 |
| Beryllium | 7440-41-7 | 0.0106 | | 0.00259 |
| Cadmium | 7440-43-9 | 0.0559 | U | 0.0599 |
| Chromium | 7440-47-3 | 2.41 | | 1.79 |
| Cobalt | 7440-48-4 | 0.294 | | 0.0353 |
| Copper | 7440-50-8 | 32.7 | | 2.13 |
| Lead | 7439-92-1 | 0.900 | | 0.173 |
| Manganese | 7439-96-5 | 8.84 | | 1.53 |
| Molybdenum | 7439-98-7 | 2.00 | | 0.290 |
| Nickel | 7440-02-0 | 1.20 | | 0.527 |
| Selenium | 7782-49-2 | 0.174 | | 0.00725 |
| Thallium | 7440-28-0 | 0.00141 | QB-01 | 4.76E-4 |
| Vanadium | 7440-62-2 | 0.777 | | 0.0428 |
| Zinc | 7440-66-6 | 38.8 | U | 62.1 |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM03-022824-HM **Lab ID:** 4030429-34 **Sampled:** 02/28/24 23:59
Matrix: Air **Sample Volume:** 2205.444 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 10:59
Comments: Q9554711- Received in good condition.

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 | 0.0607 | SL | 0.0285 |
| Arsenic | 7440-38-2 | 0.259 | | 0.00691 |
| Barium | 7440-39-3 | 3.21 | | 0.789 |
| Beryllium | 7440-41-7 | 0.0244 | | 0.00236 |
| Cadmium | 7440-43-9 | 0.0548 | | 0.0547 |
| Chromium | 7440-47-3 | 2.86 | | 1.63 |
| Cobalt | 7440-48-4 | 0.480 | | 0.0322 |
| Copper | 7440-50-8 | 32.3 | | 1.94 |
| Lead | 7439-92-1 | 0.603 | | 0.158 |
| Manganese | 7439-96-5 | 11.5 | | 1.39 |
| Molybdenum | 7439-98-7 | 1.31 | | 0.265 |
| Nickel | 7440-02-0 | 1.37 | | 0.481 |
| Selenium | 7782-49-2 | 0.183 | | 0.00661 |
| Thallium | 7440-28-0 | 0.00140 | QB-01 | 4.35E-4 |
| Vanadium | 7440-62-2 | 1.00 | | 0.0390 |
| Zinc | 7440-66-6 | 28.0 | U | 56.7 |

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: 03/20/24 12:21
 SUBMITTED: 03/04/24
 AQS SITE CODE:
 SITE CODE: Lahaina fires

Description: MFL-AM04-022824-HM **Lab ID:** 4030429-35 **Sampled:** 02/28/24 23:59
Matrix: Air **Sample Volume:** 1869.158 m³ **Received:** 03/04/24 13:11
Filter ID: **Analysis Date:** 03/06/24 11:14

Comments: Q9554710- Received in good condition.

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 | 0.0445 | SL | 0.0336 |
| Arsenic | 7440-38-2 | 0.292 | | 0.00816 |
| Barium | 7440-39-3 | 2.69 | | 0.931 |
| Beryllium | 7440-41-7 | 0.00799 | | 0.00279 |
| Cadmium | 7440-43-9 | 0.0108 | U | 0.0645 |
| Chromium | 7440-47-3 | 2.02 | | 1.92 |
| Cobalt | 7440-48-4 | 0.201 | | 0.0380 |
| Copper | 7440-50-8 | 20.2 | | 2.29 |
| Lead | 7439-92-1 | 0.689 | | 0.186 |
| Manganese | 7439-96-5 | 6.61 | | 1.65 |
| Molybdenum | 7439-98-7 | 0.996 | | 0.312 |
| Nickel | 7440-02-0 | 0.671 | | 0.568 |
| Selenium | 7782-49-2 | 0.141 | | 0.00780 |
| Thallium | 7440-28-0 | 0.00121 | QB-01 | 5.13E-4 |
| Vanadium | 7440-62-2 | 0.514 | | 0.0460 |
| Zinc | 7440-66-6 | 25.2 | U | 66.9 |

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FILE #: 4205.00.003.001
REPORTED: 03/20/24 12:21
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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 2403017 - B4C0503

Calibration Blank (2403017-CCB1)

Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|-------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.500 | | ng/l | | | | | | | |
| Arsenic | 3.38 | | ng/l | | | | | | | |
| Barium | 0.774 | | ng/l | | | | | | | |
| Beryllium | 0.281 | | ng/l | | | | | | | |
| Cadmium | 0.196 | | ng/l | | | | | | | |
| Chromium | 3.68 | | ng/l | | | | | | | |
| Cobalt | 0.759 | | ng/l | | | | | | | |
| Copper | 490 | | ng/l | | | | | | | |
| Lead | 3.80 | | ng/l | | | | | | | |
| Manganese | 11.5 | | ng/l | | | | | | | |
| Molybdenum | 17.9 | | ng/l | | | | | | | |
| Nickel | 2.87 | | ng/l | | | | | | | |
| Selenium | 4.63 | | ng/l | | | | | | | |
| Thallium | 1.03 | | ng/l | | | | | | | |
| Vanadium | 39.5 | | ng/l | | | | | | | |
| Zinc | -2.46 | | ng/l | | | | | | | U |

Calibration Blank (2403017-CCB2)

Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|---------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.435 | | ng/l | | | | | | | |
| Arsenic | 2.13 | | ng/l | | | | | | | |
| Barium | -0.0640 | | ng/l | | | | | | | U |
| Beryllium | 0.113 | | ng/l | | | | | | | |
| Cadmium | -0.0828 | | ng/l | | | | | | | U |
| Chromium | 1.55 | | ng/l | | | | | | | |
| Cobalt | 0.290 | | ng/l | | | | | | | |
| Copper | 324 | | ng/l | | | | | | | |
| Lead | 1.97 | | ng/l | | | | | | | |
| Manganese | 6.68 | | ng/l | | | | | | | |
| Molybdenum | 5.27 | | ng/l | | | | | | | |
| Nickel | 1.14 | | ng/l | | | | | | | |
| Selenium | -1.24 | | ng/l | | | | | | | U |
| Thallium | 0.935 | | ng/l | | | | | | | |
| Vanadium | 36.0 | | ng/l | | | | | | | |
| Zinc | -2.83 | | ng/l | | | | | | | U |

Calibration Blank (2403017-CCB3)

Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|-----------|--------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.441 | | ng/l | | | | | | | |
| Arsenic | 6.74 | | ng/l | | | | | | | |
| Barium | 0.476 | | ng/l | | | | | | | |
| Beryllium | -0.318 | | ng/l | | | | | | | U |

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

FILE #: 4205.00.003.001
REPORTED: 03/20/24 12:21
SUBMITTED: 03/04/24
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 2403017 - B4C0503

Calibration Blank (2403017-CCB3) Contin

Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|---------|--|------|--|--|--|--|--|--|---|
| Cadmium | -0.0245 | | ng/l | | | | | | | U |
| Chromium | 1.52 | | ng/l | | | | | | | |
| Cobalt | 0.300 | | ng/l | | | | | | | |
| Copper | 223 | | ng/l | | | | | | | |
| Lead | 2.59 | | ng/l | | | | | | | |
| Manganese | 6.47 | | ng/l | | | | | | | |
| Molybdenum | 4.22 | | ng/l | | | | | | | |
| Nickel | 2.00 | | ng/l | | | | | | | |
| Selenium | -0.354 | | ng/l | | | | | | | U |
| Thallium | 1.00 | | ng/l | | | | | | | |
| Vanadium | 25.9 | | ng/l | | | | | | | |
| Zinc | -72.7 | | ng/l | | | | | | | U |

Calibration Blank (2403017-CCB4)

Prepared: 03/05/24 Analyzed: 03/06/24

| | | | | | | | | | | |
|------------|---------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.242 | | ng/l | | | | | | | |
| Arsenic | 5.97 | | ng/l | | | | | | | |
| Barium | -0.229 | | ng/l | | | | | | | U |
| Beryllium | 0.0307 | | ng/l | | | | | | | |
| Cadmium | -0.0462 | | ng/l | | | | | | | U |
| Chromium | 1.48 | | ng/l | | | | | | | |
| Cobalt | 0.442 | | ng/l | | | | | | | |
| Copper | 302 | | ng/l | | | | | | | |
| Lead | 2.16 | | ng/l | | | | | | | |
| Manganese | 8.25 | | ng/l | | | | | | | |
| Molybdenum | 6.09 | | ng/l | | | | | | | |
| Nickel | 2.42 | | ng/l | | | | | | | |
| Selenium | -2.15 | | ng/l | | | | | | | U |
| Thallium | 1.25 | | ng/l | | | | | | | |
| Vanadium | 28.1 | | ng/l | | | | | | | |
| Zinc | -73.4 | | ng/l | | | | | | | U |

Calibration Blank (2403017-CCB5)

Prepared: 03/05/24 Analyzed: 03/06/24

| | | | | | | | | | | |
|-----------|--------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.157 | | ng/l | | | | | | | |
| Arsenic | 7.77 | | ng/l | | | | | | | |
| Barium | 0.790 | | ng/l | | | | | | | |
| Beryllium | -0.685 | | ng/l | | | | | | | U |
| Cadmium | 0.168 | | ng/l | | | | | | | |
| Chromium | 1.67 | | ng/l | | | | | | | |
| Cobalt | 1.88 | | ng/l | | | | | | | |
| Copper | 131 | | ng/l | | | | | | | |

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FILE #: 4205.00.003.001
REPORTED: 03/20/24 12:21
SUBMITTED: 03/04/24
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 2403017 - B4C0503

Calibration Blank (2403017-CCB5) Contin

Prepared: 03/05/24 Analyzed: 03/06/24

| | | | | | | | | | | |
|------------|-------|--|------|--|--|--|--|--|--|---|
| Lead | 1.86 | | ng/l | | | | | | | |
| Manganese | 9.55 | | ng/l | | | | | | | |
| Molybdenum | 5.81 | | ng/l | | | | | | | |
| Nickel | 2.76 | | ng/l | | | | | | | |
| Selenium | 1.97 | | ng/l | | | | | | | |
| Thallium | 0.919 | | ng/l | | | | | | | |
| Vanadium | 14.5 | | ng/l | | | | | | | |
| Zinc | -57.3 | | ng/l | | | | | | | U |

Calibration Blank (2403017-CCB6)

Prepared: 03/05/24 Analyzed: 03/06/24

| | | | | | | | | | | |
|------------|--------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.715 | | ng/l | | | | | | | |
| Arsenic | 9.27 | | ng/l | | | | | | | |
| Barium | 2.62 | | ng/l | | | | | | | |
| Beryllium | -0.313 | | ng/l | | | | | | | U |
| Cadmium | 0.180 | | ng/l | | | | | | | |
| Chromium | 5.38 | | ng/l | | | | | | | |
| Cobalt | 0.855 | | ng/l | | | | | | | |
| Copper | 129 | | ng/l | | | | | | | |
| Lead | 3.63 | | ng/l | | | | | | | |
| Manganese | 12.0 | | ng/l | | | | | | | |
| Molybdenum | 7.00 | | ng/l | | | | | | | |
| Nickel | 2.89 | | ng/l | | | | | | | |
| Selenium | 2.34 | | ng/l | | | | | | | |
| Thallium | 0.904 | | ng/l | | | | | | | |
| Vanadium | 13.9 | | ng/l | | | | | | | |
| Zinc | -60.7 | | ng/l | | | | | | | U |

Calibration Blank (2403017-CCB7)

Prepared: 03/05/24 Analyzed: 03/06/24

| | | | | | | | | | | |
|------------|--------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.302 | | ng/l | | | | | | | |
| Arsenic | 10.6 | | ng/l | | | | | | | |
| Barium | 0.761 | | ng/l | | | | | | | |
| Beryllium | -0.517 | | ng/l | | | | | | | U |
| Cadmium | 0.0665 | | ng/l | | | | | | | |
| Chromium | 1.06 | | ng/l | | | | | | | |
| Cobalt | 0.521 | | ng/l | | | | | | | |
| Copper | 104 | | ng/l | | | | | | | |
| Lead | 2.06 | | ng/l | | | | | | | |
| Manganese | 7.44 | | ng/l | | | | | | | |
| Molybdenum | 5.32 | | ng/l | | | | | | | |
| Nickel | 1.92 | | ng/l | | | | | | | |

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FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 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 2403017 - B4C0503

Calibration Blank (2403017-CCB7) Contin

Prepared: 03/05/24 Analyzed: 03/06/24

| | | | | | | | | | | |
|----------|-------|--|------|--|--|--|--|--|--|---|
| Selenium | -7.74 | | ng/l | | | | | | | U |
| Thallium | 1.12 | | ng/l | | | | | | | |
| Vanadium | 10.3 | | ng/l | | | | | | | |
| Zinc | -70.1 | | ng/l | | | | | | | U |

Calibration Check (2403017-CCV1)

Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 20200 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Arsenic | 20100 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Barium | 201000 | | ng/l | 200000 | | 101 | 90-110 | | | |
| Beryllium | 4870 | | ng/l | 5000.0 | | 97.4 | 90-110 | | | |
| Cadmium | 20500 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Chromium | 240000 | | ng/l | 240000 | | 99.9 | 90-110 | | | |
| Cobalt | 51100 | | ng/l | 50000 | | 102 | 90-110 | | | |
| Copper | 2.06E6 | | ng/l | 2.0000E6 | | 103 | 90-110 | | | |
| Lead | 202000 | | ng/l | 200000 | | 101 | 90-110 | | | |
| Manganese | 507000 | | ng/l | 500000 | | 101 | 90-110 | | | |
| Molybdenum | 50800 | | ng/l | 50000 | | 102 | 90-110 | | | |
| Nickel | 123000 | | ng/l | 120000 | | 103 | 90-110 | | | |
| Selenium | 20200 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Thallium | 503 | | ng/l | 500.00 | | 101 | 90-110 | | | |
| Vanadium | 19900 | | ng/l | 20000 | | 99.3 | 90-110 | | | |
| Zinc | 537000 | | ng/l | 500000 | | 107 | 90-110 | | | |

Calibration Check (2403017-CCV2)

Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 20300 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Arsenic | 20300 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Barium | 198000 | | ng/l | 200000 | | 99.2 | 90-110 | | | |
| Beryllium | 4880 | | ng/l | 5000.0 | | 97.7 | 90-110 | | | |
| Cadmium | 20600 | | ng/l | 20000 | | 103 | 90-110 | | | |
| Chromium | 244000 | | ng/l | 240000 | | 102 | 90-110 | | | |
| Cobalt | 50700 | | ng/l | 50000 | | 101 | 90-110 | | | |
| Copper | 2.08E6 | | ng/l | 2.0000E6 | | 104 | 90-110 | | | |
| Lead | 201000 | | ng/l | 200000 | | 101 | 90-110 | | | |
| Manganese | 505000 | | ng/l | 500000 | | 101 | 90-110 | | | |
| Molybdenum | 51100 | | ng/l | 50000 | | 102 | 90-110 | | | |
| Nickel | 122000 | | ng/l | 120000 | | 102 | 90-110 | | | |
| Selenium | 20400 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Thallium | 488 | | ng/l | 500.00 | | 97.7 | 90-110 | | | |
| Vanadium | 20300 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Zinc | 540000 | | ng/l | 500000 | | 108 | 90-110 | | | |

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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 2403017 - B4C0503

Calibration Check (2403017-CCV3)

Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 20100 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Arsenic | 20100 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Barium | 199000 | | ng/l | 200000 | | 99.3 | 90-110 | | | |
| Beryllium | 4940 | | ng/l | 5000.0 | | 98.8 | 90-110 | | | |
| Cadmium | 20300 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Chromium | 240000 | | ng/l | 240000 | | 100 | 90-110 | | | |
| Cobalt | 50000 | | ng/l | 50000 | | 99.9 | 90-110 | | | |
| Copper | 2.05E6 | | ng/l | 2.0000E6 | | 103 | 90-110 | | | |
| Lead | 200000 | | ng/l | 200000 | | 100 | 90-110 | | | |
| Manganese | 501000 | | ng/l | 500000 | | 100 | 90-110 | | | |
| Molybdenum | 50000 | | ng/l | 50000 | | 100 | 90-110 | | | |
| Nickel | 121000 | | ng/l | 120000 | | 101 | 90-110 | | | |
| Selenium | 19900 | | ng/l | 20000 | | 99.6 | 90-110 | | | |
| Thallium | 479 | | ng/l | 500.00 | | 95.8 | 90-110 | | | |
| Vanadium | 19900 | | ng/l | 20000 | | 99.4 | 90-110 | | | |
| Zinc | 533000 | | ng/l | 500000 | | 107 | 90-110 | | | |

Calibration Check (2403017-CCV4)

Prepared: 03/05/24 Analyzed: 03/06/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 20500 | | ng/l | 20000 | | 103 | 90-110 | | | |
| Arsenic | 20400 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Barium | 200000 | | ng/l | 200000 | | 100 | 90-110 | | | |
| Beryllium | 4880 | | ng/l | 5000.0 | | 97.5 | 90-110 | | | |
| Cadmium | 20600 | | ng/l | 20000 | | 103 | 90-110 | | | |
| Chromium | 243000 | | ng/l | 240000 | | 101 | 90-110 | | | |
| Cobalt | 50500 | | ng/l | 50000 | | 101 | 90-110 | | | |
| Copper | 2.07E6 | | ng/l | 2.0000E6 | | 103 | 90-110 | | | |
| Lead | 203000 | | ng/l | 200000 | | 101 | 90-110 | | | |
| Manganese | 512000 | | ng/l | 500000 | | 102 | 90-110 | | | |
| Molybdenum | 50400 | | ng/l | 50000 | | 101 | 90-110 | | | |
| Nickel | 123000 | | ng/l | 120000 | | 102 | 90-110 | | | |
| Selenium | 20400 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Thallium | 490 | | ng/l | 500.00 | | 98.0 | 90-110 | | | |
| Vanadium | 20300 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Zinc | 541000 | | ng/l | 500000 | | 108 | 90-110 | | | |

Calibration Check (2403017-CCV5)

Prepared: 03/05/24 Analyzed: 03/06/24

| | | | | | | | | | | |
|-----------|--------|--|------|--------|--|------|--------|--|--|--|
| Antimony | 20100 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Arsenic | 20000 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Barium | 197000 | | ng/l | 200000 | | 98.7 | 90-110 | | | |
| Beryllium | 4870 | | ng/l | 5000.0 | | 97.5 | 90-110 | | | |

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 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 2403017 - B4C0503

Calibration Check (2403017-CCV5) Contin

Prepared: 03/05/24 Analyzed: 03/06/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Cadmium | 20200 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Chromium | 238000 | | ng/l | 240000 | | 99.3 | 90-110 | | | |
| Cobalt | 49700 | | ng/l | 50000 | | 99.3 | 90-110 | | | |
| Copper | 2.04E6 | | ng/l | 2.0000E6 | | 102 | 90-110 | | | |
| Lead | 199000 | | ng/l | 200000 | | 99.7 | 90-110 | | | |
| Manganese | 504000 | | ng/l | 500000 | | 101 | 90-110 | | | |
| Molybdenum | 49700 | | ng/l | 50000 | | 99.4 | 90-110 | | | |
| Nickel | 120000 | | ng/l | 120000 | | 99.7 | 90-110 | | | |
| Selenium | 20200 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Thallium | 472 | | ng/l | 500.00 | | 94.4 | 90-110 | | | |
| Vanadium | 19700 | | ng/l | 20000 | | 98.3 | 90-110 | | | |
| Zinc | 531000 | | ng/l | 500000 | | 106 | 90-110 | | | |

Calibration Check (2403017-CCV6)

Prepared: 03/05/24 Analyzed: 03/06/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 20600 | | ng/l | 20000 | | 103 | 90-110 | | | |
| Arsenic | 20600 | | ng/l | 20000 | | 103 | 90-110 | | | |
| Barium | 200000 | | ng/l | 200000 | | 100 | 90-110 | | | |
| Beryllium | 4770 | | ng/l | 5000.0 | | 95.3 | 90-110 | | | |
| Cadmium | 20600 | | ng/l | 20000 | | 103 | 90-110 | | | |
| Chromium | 244000 | | ng/l | 240000 | | 102 | 90-110 | | | |
| Cobalt | 50900 | | ng/l | 50000 | | 102 | 90-110 | | | |
| Copper | 2.09E6 | | ng/l | 2.0000E6 | | 104 | 90-110 | | | |
| Lead | 204000 | | ng/l | 200000 | | 102 | 90-110 | | | |
| Manganese | 516000 | | ng/l | 500000 | | 103 | 90-110 | | | |
| Molybdenum | 50600 | | ng/l | 50000 | | 101 | 90-110 | | | |
| Nickel | 122000 | | ng/l | 120000 | | 102 | 90-110 | | | |
| Selenium | 20600 | | ng/l | 20000 | | 103 | 90-110 | | | |
| Thallium | 477 | | ng/l | 500.00 | | 95.4 | 90-110 | | | |
| Vanadium | 20000 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Zinc | 543000 | | ng/l | 500000 | | 109 | 90-110 | | | |

Calibration Check (2403017-CCV7)

Prepared: 03/05/24 Analyzed: 03/06/24

| | | | | | | | | | | |
|-----------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 20400 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Arsenic | 20300 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Barium | 201000 | | ng/l | 200000 | | 101 | 90-110 | | | |
| Beryllium | 4650 | | ng/l | 5000.0 | | 92.9 | 90-110 | | | |
| Cadmium | 20300 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Chromium | 242000 | | ng/l | 240000 | | 101 | 90-110 | | | |
| Cobalt | 50700 | | 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: 03/20/24 12:21
SUBMITTED: 03/04/24
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 2403017 - B4C0503

Calibration Check (2403017-CCV7) Contin

Prepared: 03/05/24 Analyzed: 03/06/24

| | | | | | | | | | | |
|------------|--------|--|------|--------|--|------|--------|--|--|--|
| Lead | 203000 | | ng/l | 200000 | | 102 | 90-110 | | | |
| Manganese | 514000 | | ng/l | 500000 | | 103 | 90-110 | | | |
| Molybdenum | 50800 | | ng/l | 50000 | | 102 | 90-110 | | | |
| Nickel | 122000 | | ng/l | 120000 | | 102 | 90-110 | | | |
| Selenium | 20500 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Thallium | 476 | | ng/l | 500.00 | | 95.3 | 90-110 | | | |
| Vanadium | 20000 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Zinc | 537000 | | ng/l | 500000 | | 107 | 90-110 | | | |

High Cal Check (2403017-HCV1)

Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 39600 | | ng/l | 40000 | | 99.0 | 95-105 | | | |
| Arsenic | 39500 | | ng/l | 40000 | | 98.7 | 95-105 | | | |
| Barium | 393000 | | ng/l | 400000 | | 98.3 | 95-105 | | | |
| Beryllium | 9560 | | ng/l | 10000 | | 95.6 | 95-105 | | | |
| Cadmium | 39300 | | ng/l | 40000 | | 98.3 | 95-105 | | | |
| Chromium | 477000 | | ng/l | 480000 | | 99.3 | 95-105 | | | |
| Cobalt | 97900 | | ng/l | 100000 | | 97.9 | 95-105 | | | |
| Copper | 3.91E6 | | ng/l | 4.0000E6 | | 97.8 | 95-105 | | | |
| Lead | 397000 | | ng/l | 400000 | | 99.2 | 95-105 | | | |
| Manganese | 980000 | | ng/l | 1.0000E6 | | 98.0 | 95-105 | | | |
| Molybdenum | 98500 | | ng/l | 100000 | | 98.5 | 95-105 | | | |
| Nickel | 234000 | | ng/l | 240000 | | 97.7 | 95-105 | | | |
| Selenium | 39600 | | ng/l | 40000 | | 99.0 | 95-105 | | | |
| Thallium | 991 | | ng/l | 1000.0 | | 99.1 | 95-105 | | | |
| Vanadium | 40100 | | ng/l | 40000 | | 100 | 95-105 | | | |
| Zinc | 967000 | | ng/l | 1.0000E6 | | 96.7 | 95-105 | | | |

Initial Cal Blank (2403017-ICB1)

Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|---------|--|------|--|--|--|--|--|--|---|
| Antimony | 0.941 | | ng/l | | | | | | | |
| Arsenic | -4.14 | | ng/l | | | | | | | U |
| Barium | -0.264 | | ng/l | | | | | | | U |
| Beryllium | -0.0451 | | ng/l | | | | | | | U |
| Cadmium | -0.0173 | | ng/l | | | | | | | U |
| Chromium | 0.416 | | ng/l | | | | | | | |
| Cobalt | 0.311 | | ng/l | | | | | | | |
| Copper | 464 | | ng/l | | | | | | | |
| Lead | 2.55 | | ng/l | | | | | | | |
| Manganese | 9.55 | | ng/l | | | | | | | |
| Molybdenum | 8.14 | | ng/l | | | | | | | |
| Nickel | -2.34 | | ng/l | | | | | | | U |

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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: 03/20/24 12:21
 SUBMITTED: 03/04/24
 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 2403017 - B4C0503

Initial Cal Blank (2403017-ICB1) Continuu

Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|----------|-------|--|------|--|--|--|--|--|--|---|
| Selenium | -6.77 | | ng/l | | | | | | | U |
| Thallium | 0.812 | | ng/l | | | | | | | |
| Vanadium | 56.9 | | ng/l | | | | | | | |
| Zinc | -44.9 | | ng/l | | | | | | | U |

Initial Cal Check (2403017-ICV1)

Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 19500 | | ng/l | 20000 | | 97.5 | 90-110 | | | |
| Arsenic | 19700 | | ng/l | 20000 | | 98.5 | 90-110 | | | |
| Barium | 195000 | | ng/l | 200000 | | 97.4 | 90-110 | | | |
| Beryllium | 5030 | | ng/l | 5000.0 | | 101 | 90-110 | | | |
| Cadmium | 20300 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Chromium | 233000 | | ng/l | 240000 | | 97.0 | 90-110 | | | |
| Cobalt | 48700 | | ng/l | 50000 | | 97.4 | 90-110 | | | |
| Copper | 1.99E6 | | ng/l | 2.0000E6 | | 99.3 | 90-110 | | | |
| Lead | 193000 | | ng/l | 200000 | | 96.5 | 90-110 | | | |
| Manganese | 475000 | | ng/l | 500000 | | 94.9 | 90-110 | | | |
| Molybdenum | 49000 | | ng/l | 50000 | | 97.9 | 90-110 | | | |
| Nickel | 117000 | | ng/l | 120000 | | 97.3 | 90-110 | | | |
| Selenium | 20400 | | ng/l | 20000 | | 102 | 90-110 | | | |
| Thallium | 492 | | ng/l | 500.00 | | 98.3 | 90-110 | | | |
| Vanadium | 20100 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Zinc | 523000 | | ng/l | 500000 | | 105 | 90-110 | | | |

Interference Check A (2403017-IFA1)

Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|--------|--|------|--------|--|------|--------|--|--|---|
| 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 | 297000 | | ng/l | 300000 | | 99.1 | 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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 1777 Sentry Pkwy, Bldg 12
 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 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 2403017 - B4C0503

Interference Check B (2403017-IFB1)

Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|--------|--|------|----------|--|------|--------|--|--|--|
| Antimony | 20300 | | ng/l | 20000 | | 102 | 80-120 | | | |
| Arsenic | 20300 | | ng/l | 20000 | | 102 | 80-120 | | | |
| Barium | 202000 | | ng/l | 200000 | | 101 | 80-120 | | | |
| Beryllium | 4880 | | ng/l | 5000.0 | | 97.5 | 80-120 | | | |
| Cadmium | 19500 | | ng/l | 20000 | | 97.4 | 80-120 | | | |
| Chromium | 229000 | | ng/l | 240000 | | 95.5 | 80-120 | | | |
| Cobalt | 48900 | | ng/l | 50000 | | 97.9 | 80-120 | | | |
| Copper | 1.90E6 | | ng/l | 2.0000E6 | | 95.0 | 80-120 | | | |
| Lead | 206000 | | ng/l | 200000 | | 103 | 80-120 | | | |
| Manganese | 512000 | | ng/l | 500000 | | 102 | 80-120 | | | |
| Molybdenum | 352000 | | ng/l | 350000 | | 101 | 80-120 | | | |
| Nickel | 115000 | | ng/l | 120000 | | 96.1 | 80-120 | | | |
| Selenium | 19200 | | ng/l | 20000 | | 95.9 | 80-120 | | | |
| Thallium | 514 | | ng/l | 500.00 | | 103 | 80-120 | | | |
| Vanadium | 18900 | | ng/l | 20000 | | 94.3 | 80-120 | | | |
| Zinc | 487000 | | ng/l | 500000 | | 97.4 | 80-120 | | | |

Batch B4C0503 - ICP-MS Extraction

Blank (B4C0503-BLK1)

Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|----|---------|-----------------------|--|--|--|--|--|--|----------|
| 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 | 0.0741 | 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 | ND | 5.89E-4 | ng/m ³ Air | | | | | | | QB-01, U |
| Vanadium | ND | 0.0529 | ng/m ³ Air | | | | | | | U |
| Zinc | ND | 76.8 | ng/m ³ Air | | | | | | | U |

LCS (B4C0503-BS1)

Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|----------|-------|---------|-----------------------|--------|--|------|--------|--|--|----|
| Antimony | 0.923 | 0.0386 | ng/m ³ Air | 1.3829 | | 66.7 | 80-120 | | | SL |
| Arsenic | 2.71 | 0.00937 | ng/m ³ Air | 2.7658 | | 98.0 | 80-120 | | | |
| Barium | 27.3 | 1.07 | ng/m ³ Air | 27.658 | | 98.9 | 80-120 | | | |

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 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 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 B4C0503 - ICP-MS Extraction

LCS (B4C0503-BS1) Continued

Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|--|------|--------|--|--|-------|
| Beryllium | 1.38 | 0.00320 | ng/m ³ Air | 1.3829 | | 100 | 80-120 | | | |
| Cadmium | 1.39 | 0.0741 | ng/m ³ Air | 1.3829 | | 101 | 80-120 | | | |
| Chromium | 15.4 | 2.21 | ng/m ³ Air | 13.829 | | 111 | 80-120 | | | |
| Cobalt | 1.37 | 0.0436 | ng/m ³ Air | 1.3829 | | 99.4 | 80-120 | | | |
| Copper | 30.5 | 2.63 | ng/m ³ Air | 27.658 | | 110 | 80-120 | | | |
| Lead | 13.6 | 0.214 | ng/m ³ Air | 13.829 | | 98.1 | 80-120 | | | |
| Manganese | 8.62 | 1.89 | ng/m ³ Air | 8.2975 | | 104 | 80-120 | | | |
| Molybdenum | 1.46 | 0.359 | ng/m ³ Air | 1.3829 | | 106 | 80-120 | | | |
| Nickel | 2.90 | 0.652 | ng/m ³ Air | 2.7658 | | 105 | 80-120 | | | |
| Selenium | 2.76 | 0.00896 | ng/m ³ Air | 2.7658 | | 99.9 | 80-120 | | | |
| Thallium | 0.137 | 5.89E-4 | ng/m ³ Air | 0.13829 | | 99.1 | 80-120 | | | QB-01 |
| Vanadium | 2.77 | 0.0529 | ng/m ³ Air | 2.7658 | | 100 | 80-120 | | | |
| Zinc | 126 | 76.8 | ng/m ³ Air | 82.975 | | 152 | 80-120 | | | |

LCS (B4C0503-BS2)

Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|--|------|--------|--|--|-------|
| Antimony | 0.913 | 0.0386 | ng/m ³ Air | 1.3829 | | 66.0 | 80-120 | | | SL |
| Arsenic | 2.66 | 0.00937 | ng/m ³ Air | 2.7658 | | 96.0 | 80-120 | | | |
| Barium | 27.2 | 1.07 | ng/m ³ Air | 27.658 | | 98.4 | 80-120 | | | |
| Beryllium | 1.32 | 0.00320 | ng/m ³ Air | 1.3829 | | 95.5 | 80-120 | | | |
| Cadmium | 1.38 | 0.0741 | ng/m ³ Air | 1.3829 | | 99.6 | 80-120 | | | |
| Chromium | 15.2 | 2.21 | ng/m ³ Air | 13.829 | | 110 | 80-120 | | | |
| Cobalt | 1.35 | 0.0436 | ng/m ³ Air | 1.3829 | | 97.6 | 80-120 | | | |
| Copper | 30.0 | 2.63 | ng/m ³ Air | 27.658 | | 108 | 80-120 | | | |
| Lead | 13.4 | 0.214 | ng/m ³ Air | 13.829 | | 96.7 | 80-120 | | | |
| Manganese | 8.45 | 1.89 | ng/m ³ Air | 8.2975 | | 102 | 80-120 | | | |
| Molybdenum | 1.43 | 0.359 | ng/m ³ Air | 1.3829 | | 103 | 80-120 | | | |
| Nickel | 2.89 | 0.652 | ng/m ³ Air | 2.7658 | | 104 | 80-120 | | | |
| Selenium | 2.68 | 0.00896 | ng/m ³ Air | 2.7658 | | 97.1 | 80-120 | | | |
| Thallium | 0.135 | 5.89E-4 | ng/m ³ Air | 0.13829 | | 97.7 | 80-120 | | | QB-01 |
| Vanadium | 2.75 | 0.0529 | ng/m ³ Air | 2.7658 | | 99.5 | 80-120 | | | |
| Zinc | 122 | 76.8 | ng/m ³ Air | 82.975 | | 148 | 80-120 | | | |

Duplicate (B4C0503-DUP1)

Source: 4030429-11

Prepared & Analyzed: 03/05/24

| | | | | | | | | | |
|-----------|--------|---------|-----------------------|--|--------|--|-------|----|----|
| Antimony | 0.0536 | 0.0325 | ng/m ³ Air | | 0.0473 | | 12.6 | 10 | SL |
| Arsenic | 0.350 | 0.00788 | ng/m ³ Air | | 0.319 | | 9.14 | 10 | |
| Barium | 3.32 | 0.900 | ng/m ³ Air | | 3.25 | | 2.05 | 10 | |
| Beryllium | 0.0233 | 0.00269 | ng/m ³ Air | | 0.0234 | | 0.546 | 10 | |
| Cadmium | ND | 0.0623 | ng/m ³ Air | | ND | | | 10 | U |
| Chromium | 3.23 | 1.86 | ng/m ³ Air | | 3.05 | | 5.65 | 10 | |
| Cobalt | 0.443 | 0.0367 | ng/m ³ Air | | 0.424 | | 4.37 | 10 | |

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 Blue Bell, PA 19422
ATTN: Ms. Chelsea Saber
PHONE: (703) 885-5495 **FAX:**

FILE #: 4205.00.003.001
REPORTED: 03/20/24 12:21
SUBMITTED: 03/04/24
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 B4C0503 - ICP-MS Extraction

| Duplicate (B4C0503-DUP1) Continued | Source: 4030429-11 | | | Prepared & Analyzed: 03/05/24 | | | | | | |
|---|---------------------------|---------|-----------------------|--|--|--|--|------|----|-------|
| Copper | 49.0 | 2.21 | ng/m ³ Air | 45.4 | | | | 7.63 | 10 | |
| Lead | 0.412 | 0.180 | ng/m ³ Air | 0.405 | | | | 1.58 | 10 | |
| Manganese | 9.89 | 1.59 | ng/m ³ Air | 9.52 | | | | 3.81 | 10 | |
| Molybdenum | 2.30 | 0.302 | ng/m ³ Air | 2.19 | | | | 4.94 | 10 | |
| Nickel | 1.64 | 0.548 | ng/m ³ Air | 1.55 | | | | 5.25 | 10 | |
| Selenium | 0.164 | 0.00754 | ng/m ³ Air | 0.162 | | | | 1.14 | 10 | |
| Thallium | 8.23E-4 | 4.95E-4 | ng/m ³ Air | 8.02E-4 | | | | 2.59 | 10 | QB-01 |
| Vanadium | 1.25 | 0.0445 | ng/m ³ Air | 1.18 | | | | 5.54 | 10 | |
| Zinc | ND | 64.6 | ng/m ³ Air | ND | | | | | 10 | U |

| Duplicate (B4C0503-DUP2) | Source: 4030429-32 | | | Prepared & Analyzed: 03/05/24 | | | | | | |
|---------------------------------|---------------------------|---------|-----------------------|--|--|--|--|--------|----|-------|
| Antimony | 0.0465 | 0.0318 | ng/m ³ Air | 0.0425 | | | | 9.04 | 10 | SL |
| Arsenic | 0.524 | 0.00773 | ng/m ³ Air | 0.569 | | | | 8.28 | 10 | |
| Barium | 4.21 | 0.882 | ng/m ³ Air | 4.20 | | | | 0.341 | 10 | |
| Beryllium | 0.0128 | 0.00264 | ng/m ³ Air | 0.0117 | | | | 8.35 | 10 | |
| Cadmium | ND | 0.0611 | ng/m ³ Air | ND | | | | | 10 | U |
| Chromium | 2.84 | 1.82 | ng/m ³ Air | 2.85 | | | | 0.0852 | 10 | |
| Cobalt | 0.570 | 0.0360 | ng/m ³ Air | 0.535 | | | | 6.36 | 10 | |
| Copper | 56.9 | 2.17 | ng/m ³ Air | 59.3 | | | | 4.21 | 10 | |
| Lead | 1.28 | 0.176 | ng/m ³ Air | 1.39 | | | | 8.54 | 10 | |
| Manganese | 13.4 | 1.56 | ng/m ³ Air | 12.7 | | | | 5.46 | 10 | |
| Molybdenum | 2.37 | 0.296 | ng/m ³ Air | 2.22 | | | | 6.25 | 10 | |
| Nickel | 1.26 | 0.538 | ng/m ³ Air | 1.18 | | | | 6.39 | 10 | |
| Selenium | 0.168 | 0.00739 | ng/m ³ Air | 0.153 | | | | 9.27 | 10 | |
| Thallium | 0.00147 | 4.86E-4 | ng/m ³ Air | 0.00151 | | | | 2.57 | 10 | QB-01 |
| Vanadium | 1.23 | 0.0436 | ng/m ³ Air | 1.14 | | | | 7.49 | 10 | |
| Zinc | ND | 63.3 | ng/m ³ Air | ND | | | | | 10 | U |

| Duplicate (B4C0503-DUP3) | Source: 4030429-15 | | | Prepared: 03/05/24 Analyzed: 03/06/24 | | | | | | |
|---------------------------------|---------------------------|---------|-----------------------|--|--|--|--|------|----|----|
| Antimony | 0.0974 | 0.0322 | ng/m ³ Air | 0.0963 | | | | 1.08 | 10 | SL |
| Arsenic | 0.243 | 0.00781 | ng/m ³ Air | 0.237 | | | | 2.40 | 10 | |
| Barium | 4.18 | 0.892 | ng/m ³ Air | 4.09 | | | | 2.33 | 10 | |
| Beryllium | 0.0101 | 0.00267 | ng/m ³ Air | 0.0104 | | | | 2.58 | 10 | |
| Cadmium | ND | 0.0618 | ng/m ³ Air | ND | | | | | 10 | U |
| Chromium | 2.53 | 1.84 | ng/m ³ Air | 2.47 | | | | 2.42 | 10 | |
| Cobalt | 0.329 | 0.0364 | ng/m ³ Air | 0.321 | | | | 2.64 | 10 | |
| Copper | 27.9 | 2.19 | ng/m ³ Air | 27.2 | | | | 2.34 | 10 | |
| Lead | 0.648 | 0.178 | ng/m ³ Air | 0.635 | | | | 2.03 | 10 | |
| Manganese | 10.1 | 1.58 | ng/m ³ Air | 9.89 | | | | 2.50 | 10 | |
| Molybdenum | 1.60 | 0.299 | ng/m ³ Air | 1.58 | | | | 1.09 | 10 | |

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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: 03/20/24 12:21
SUBMITTED: 03/04/24
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 B4C0503 - ICP-MS Extraction

Duplicate (B4C0503-DUP3) Continued **Source: 4030429-15** Prepared: 03/05/24 Analyzed: 03/06/24

| | | | | | | | | | | |
|----------|---------|---------|-----------------------|--|---------|--|--|------|----|-------|
| Nickel | 1.25 | 0.544 | ng/m ³ Air | | 1.21 | | | 3.26 | 10 | |
| Selenium | 0.158 | 0.00747 | ng/m ³ Air | | 0.161 | | | 2.42 | 10 | |
| Thallium | 0.00116 | 4.91E-4 | ng/m ³ Air | | 0.00111 | | | 4.02 | 10 | QB-01 |
| Vanadium | 1.04 | 0.0441 | ng/m ³ Air | | 1.03 | | | 1.55 | 10 | |
| Zinc | ND | 64.0 | ng/m ³ Air | | ND | | | | 10 | U |

Duplicate (B4C0503-DUP4) **Source: 4030429-26** Prepared: 03/05/24 Analyzed: 03/06/24

| | | | | | | | | | | |
|------------|---------|---------|-----------------------|--|---------|--|--|-------|----|-------|
| Antimony | 0.0559 | 0.0336 | ng/m ³ Air | | 0.0581 | | | 3.97 | 10 | SL |
| Arsenic | 0.171 | 0.00815 | ng/m ³ Air | | 0.174 | | | 1.94 | 10 | |
| Barium | 2.69 | 0.931 | ng/m ³ Air | | 2.68 | | | 0.376 | 10 | |
| Beryllium | 0.00587 | 0.00278 | ng/m ³ Air | | 0.00611 | | | 4.05 | 10 | |
| Cadmium | ND | 0.0645 | ng/m ³ Air | | ND | | | | 10 | U |
| Chromium | 2.11 | 1.92 | ng/m ³ Air | | 2.10 | | | 0.579 | 10 | |
| Cobalt | 0.157 | 0.0379 | ng/m ³ Air | | 0.158 | | | 0.271 | 10 | |
| Copper | 29.9 | 2.29 | ng/m ³ Air | | 30.1 | | | 0.501 | 10 | |
| Lead | 0.621 | 0.186 | ng/m ³ Air | | 0.621 | | | 0.106 | 10 | |
| Manganese | 4.76 | 1.64 | ng/m ³ Air | | 4.77 | | | 0.331 | 10 | |
| Molybdenum | 1.10 | 0.312 | ng/m ³ Air | | 1.09 | | | 1.07 | 10 | |
| Nickel | 0.631 | 0.567 | ng/m ³ Air | | 0.629 | | | 0.270 | 10 | |
| Selenium | 0.133 | 0.00780 | ng/m ³ Air | | 0.135 | | | 1.49 | 10 | |
| Thallium | 8.66E-4 | 5.12E-4 | ng/m ³ Air | | 8.25E-4 | | | 4.86 | 10 | QB-01 |
| Vanadium | 0.393 | 0.0460 | ng/m ³ Air | | 0.396 | | | 0.785 | 10 | |
| Zinc | ND | 66.8 | ng/m ³ Air | | ND | | | | 10 | U |

Matrix Spike (B4C0503-MS1) **Source: 4030429-11** Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|---------|------|--------|--|--|-------|
| Antimony | 0.499 | 0.0325 | ng/m ³ Air | 1.1634 | 0.0473 | 38.8 | 80-120 | | | SL |
| Arsenic | 2.52 | 0.00788 | ng/m ³ Air | 2.3267 | 0.319 | 94.4 | 80-120 | | | |
| Barium | 25.7 | 0.900 | ng/m ³ Air | 23.267 | 3.25 | 96.7 | 80-120 | | | |
| Beryllium | 1.16 | 0.00269 | ng/m ³ Air | 1.1634 | 0.0234 | 97.8 | 80-120 | | | |
| Cadmium | 1.18 | 0.0623 | ng/m ³ Air | 1.1634 | ND | 101 | 80-120 | | | |
| Chromium | 15.1 | 1.86 | ng/m ³ Air | 11.634 | 3.05 | 103 | 80-120 | | | |
| Cobalt | 1.60 | 0.0367 | ng/m ³ Air | 1.1634 | 0.424 | 101 | 80-120 | | | |
| Copper | 70.5 | 2.21 | ng/m ³ Air | 23.267 | 45.4 | 108 | 80-120 | | | |
| Lead | 11.9 | 0.180 | ng/m ³ Air | 11.634 | 0.405 | 98.9 | 80-120 | | | |
| Manganese | 17.0 | 1.59 | ng/m ³ Air | 6.9802 | 9.52 | 107 | 80-120 | | | |
| Molybdenum | 3.38 | 0.302 | ng/m ³ Air | 1.1634 | 2.19 | 103 | 80-120 | | | |
| Nickel | 3.75 | 0.548 | ng/m ³ Air | 2.3267 | 1.55 | 94.5 | 80-120 | | | |
| Selenium | 2.43 | 0.00754 | ng/m ³ Air | 2.3267 | 0.162 | 97.5 | 80-120 | | | |
| Thallium | 0.116 | 4.95E-4 | ng/m ³ Air | 0.11634 | 8.02E-4 | 98.7 | 80-120 | | | QB-01 |
| Vanadium | 3.51 | 0.0445 | ng/m ³ Air | 2.3267 | 1.18 | 100 | 80-120 | | | |

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

FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 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 B4C0503 - ICP-MS Extraction

Matrix Spike (B4C0503-MS1) Continued Source: 4030429-11 Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------|-----|------|-----------------------|--------|----|-----|--------|--|--|--|
| Zinc | 104 | 64.6 | ng/m ³ Air | 69.802 | ND | 149 | 80-120 | | | |
|------|-----|------|-----------------------|--------|----|-----|--------|--|--|--|

Matrix Spike (B4C0503-MS2) Source: 4030429-32 Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|---------|------|--------|--|--|-------|
| Antimony | 0.437 | 0.0318 | ng/m ³ Air | 1.1404 | 0.0425 | 34.6 | 80-120 | | | SL |
| Arsenic | 2.69 | 0.00773 | ng/m ³ Air | 2.2809 | 0.569 | 93.2 | 80-120 | | | |
| Barium | 26.2 | 0.882 | ng/m ³ Air | 22.809 | 4.20 | 96.6 | 80-120 | | | |
| Beryllium | 1.18 | 0.00264 | ng/m ³ Air | 1.1404 | 0.0117 | 103 | 80-120 | | | |
| Cadmium | 1.16 | 0.0611 | ng/m ³ Air | 1.1404 | ND | 102 | 80-120 | | | |
| Chromium | 14.4 | 1.82 | ng/m ³ Air | 11.404 | 2.85 | 101 | 80-120 | | | |
| Cobalt | 1.65 | 0.0360 | ng/m ³ Air | 1.1404 | 0.535 | 98.1 | 80-120 | | | |
| Copper | 81.0 | 2.17 | ng/m ³ Air | 22.809 | 59.3 | 94.8 | 80-120 | | | |
| Lead | 12.6 | 0.176 | ng/m ³ Air | 11.404 | 1.39 | 98.5 | 80-120 | | | |
| Manganese | 20.1 | 1.56 | ng/m ³ Air | 6.8426 | 12.7 | 109 | 80-120 | | | |
| Molybdenum | 3.47 | 0.296 | ng/m ³ Air | 1.1404 | 2.22 | 110 | 80-120 | | | |
| Nickel | 3.44 | 0.538 | ng/m ³ Air | 2.2809 | 1.18 | 99.3 | 80-120 | | | |
| Selenium | 2.35 | 0.00739 | ng/m ³ Air | 2.2809 | 0.153 | 96.4 | 80-120 | | | |
| Thallium | 0.110 | 4.86E-4 | ng/m ³ Air | 0.11404 | 0.00151 | 95.2 | 80-120 | | | QB-01 |
| Vanadium | 3.37 | 0.0436 | ng/m ³ Air | 2.2809 | 1.14 | 97.7 | 80-120 | | | |
| Zinc | 101 | 63.3 | ng/m ³ Air | 68.426 | ND | 148 | 80-120 | | | |

Matrix Spike Dup (B4C0503-MSD1) Source: 4030429-11 Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|---------|------|--------|-------|----|-------|
| Antimony | 0.506 | 0.0325 | ng/m ³ Air | 1.1634 | 0.0473 | 39.4 | 80-120 | 1.34 | 20 | SL |
| Arsenic | 2.54 | 0.00788 | ng/m ³ Air | 2.3267 | 0.319 | 95.4 | 80-120 | 0.906 | 20 | |
| Barium | 26.1 | 0.900 | ng/m ³ Air | 23.267 | 3.25 | 98.1 | 80-120 | 1.26 | 20 | |
| Beryllium | 1.17 | 0.00269 | ng/m ³ Air | 1.1634 | 0.0234 | 98.9 | 80-120 | 1.03 | 20 | |
| Cadmium | 1.18 | 0.0623 | ng/m ³ Air | 1.1634 | ND | 102 | 80-120 | 0.341 | 20 | |
| Chromium | 15.0 | 1.86 | ng/m ³ Air | 11.634 | 3.05 | 102 | 80-120 | 0.825 | 20 | |
| Cobalt | 1.60 | 0.0367 | ng/m ³ Air | 1.1634 | 0.424 | 101 | 80-120 | 0.113 | 20 | |
| Copper | 71.7 | 2.21 | ng/m ³ Air | 23.267 | 45.4 | 113 | 80-120 | 1.81 | 20 | |
| Lead | 11.8 | 0.180 | ng/m ³ Air | 11.634 | 0.405 | 98.3 | 80-120 | 0.603 | 20 | |
| Manganese | 17.1 | 1.59 | ng/m ³ Air | 6.9802 | 9.52 | 108 | 80-120 | 0.348 | 20 | |
| Molybdenum | 3.51 | 0.302 | ng/m ³ Air | 1.1634 | 2.19 | 114 | 80-120 | 3.63 | 20 | |
| Nickel | 3.78 | 0.548 | ng/m ³ Air | 2.3267 | 1.55 | 95.9 | 80-120 | 0.845 | 20 | |
| Selenium | 2.40 | 0.00754 | ng/m ³ Air | 2.3267 | 0.162 | 96.2 | 80-120 | 1.25 | 20 | |
| Thallium | 0.114 | 4.95E-4 | ng/m ³ Air | 0.11634 | 8.02E-4 | 97.4 | 80-120 | 1.39 | 20 | QB-01 |
| Vanadium | 3.50 | 0.0445 | ng/m ³ Air | 2.3267 | 1.18 | 99.6 | 80-120 | 0.269 | 20 | |
| Zinc | 103 | 64.6 | ng/m ³ Air | 69.802 | ND | 147 | 80-120 | 1.20 | 20 | |

Matrix Spike Dup (B4C0503-MSD2) Source: 4030429-32 Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|----------|-------|---------|-----------------------|--------|--------|------|--------|--------|----|----|
| Antimony | 0.437 | 0.0318 | ng/m ³ Air | 1.1404 | 0.0425 | 34.6 | 80-120 | 0.0813 | 20 | SL |
| Arsenic | 2.72 | 0.00773 | ng/m ³ Air | 2.2809 | 0.569 | 94.4 | 80-120 | 1.07 | 20 | |

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 Blue Bell, PA 19422
 ATTN: Ms. Chelsea Saber
 PHONE: (703) 885-5495 FAX:

FILE #: 4205.00.003.001
 REPORTED: 03/20/24 12:21
 SUBMITTED: 03/04/24
 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 B4C0503 - ICP-MS Extraction

Matrix Spike Dup (B4C0503-MSD2) Contisource: 4030429-32 Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|-------|---------|-----------------------|---------|---------|------|--------|------|----|-------|
| Barium | 25.6 | 0.882 | ng/m ³ Air | 22.809 | 4.20 | 93.8 | 80-120 | 2.43 | 20 | |
| Beryllium | 1.16 | 0.00264 | ng/m ³ Air | 1.1404 | 0.0117 | 101 | 80-120 | 2.22 | 20 | |
| Cadmium | 1.25 | 0.0611 | ng/m ³ Air | 1.1404 | ND | 109 | 80-120 | 7.38 | 20 | |
| Chromium | 14.0 | 1.82 | ng/m ³ Air | 11.404 | 2.85 | 97.7 | 80-120 | 2.67 | 20 | |
| Cobalt | 1.63 | 0.0360 | ng/m ³ Air | 1.1404 | 0.535 | 96.3 | 80-120 | 1.25 | 20 | |
| Copper | 68.6 | 2.17 | ng/m ³ Air | 22.809 | 59.3 | 40.7 | 80-120 | 16.5 | 20 | QM-07 |
| Lead | 11.9 | 0.176 | ng/m ³ Air | 11.404 | 1.39 | 92.3 | 80-120 | 5.73 | 20 | |
| Manganese | 19.6 | 1.56 | ng/m ³ Air | 6.8426 | 12.7 | 102 | 80-120 | 2.42 | 20 | |
| Molybdenum | 3.36 | 0.296 | ng/m ³ Air | 1.1404 | 2.22 | 99.6 | 80-120 | 3.38 | 20 | |
| Nickel | 3.24 | 0.538 | ng/m ³ Air | 2.2809 | 1.18 | 90.4 | 80-120 | 6.07 | 20 | |
| Selenium | 2.39 | 0.00739 | ng/m ³ Air | 2.2809 | 0.153 | 97.9 | 80-120 | 1.49 | 20 | |
| Thallium | 0.112 | 4.86E-4 | ng/m ³ Air | 0.11404 | 0.00151 | 97.2 | 80-120 | 1.99 | 20 | QB-01 |
| Vanadium | 3.32 | 0.0436 | ng/m ³ Air | 2.2809 | 1.14 | 95.5 | 80-120 | 1.51 | 20 | |
| Zinc | 90.2 | 63.3 | ng/m ³ Air | 68.426 | ND | 132 | 80-120 | 11.3 | 20 | |

Post Spike (B4C0503-PS1) Source: 4030429-11 Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|--------|---------|-----------------------|-----------|---------|------|--------|--|--|-------|
| Antimony | 0.278 | 0.0325 | ng/m ³ Air | 0.23267 | 0.0473 | 99.1 | 75-125 | | | SL |
| Arsenic | 1.44 | 0.00788 | ng/m ³ Air | 1.1634 | 0.319 | 96.5 | 75-125 | | | |
| Barium | 5.59 | 0.900 | ng/m ³ Air | 2.3267 | 3.25 | 100 | 75-125 | | | |
| Beryllium | 0.257 | 0.00269 | ng/m ³ Air | 0.23267 | 0.0234 | 100 | 75-125 | | | |
| Cadmium | 0.127 | 0.0623 | ng/m ³ Air | 0.11634 | ND | 109 | 75-125 | | | |
| Chromium | 4.26 | 1.86 | ng/m ³ Air | 1.1634 | 3.05 | 104 | 75-125 | | | |
| Cobalt | 0.665 | 0.0367 | ng/m ³ Air | 0.23267 | 0.424 | 104 | 75-125 | | | |
| Copper | 58.5 | 2.21 | ng/m ³ Air | 11.634 | 45.4 | 113 | 75-125 | | | |
| Lead | 23.2 | 0.180 | ng/m ³ Air | 23.267 | 0.405 | 98.2 | 75-125 | | | |
| Manganese | 12.1 | 1.59 | ng/m ³ Air | 2.3267 | 9.52 | 110 | 75-125 | | | |
| Molybdenum | 3.38 | 0.302 | ng/m ³ Air | 1.1634 | 2.19 | 102 | 75-125 | | | |
| Nickel | 3.85 | 0.548 | ng/m ³ Air | 2.3267 | 1.55 | 98.7 | 75-125 | | | |
| Selenium | 1.27 | 0.00754 | ng/m ³ Air | 1.1634 | 0.162 | 95.5 | 75-125 | | | |
| Thallium | 0.0591 | 4.95E-4 | ng/m ³ Air | 5.8168E-2 | 8.02E-4 | 100 | 75-125 | | | QB-01 |
| Vanadium | 2.30 | 0.0445 | ng/m ³ Air | 1.1634 | 1.18 | 96.8 | 75-125 | | | |
| Zinc | ND | 64.6 | ng/m ³ Air | 23.267 | ND | | 75-125 | | | U |

Post Spike (B4C0503-PS2) Source: 4030429-32 Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|-----------|-------|---------|-----------------------|---------|--------|------|--------|--|--|----|
| Antimony | 0.271 | 0.0318 | ng/m ³ Air | 0.22809 | 0.0425 | 100 | 75-125 | | | SL |
| Arsenic | 1.71 | 0.00773 | ng/m ³ Air | 1.1404 | 0.569 | 99.6 | 75-125 | | | |
| Barium | 6.39 | 0.882 | ng/m ³ Air | 2.2809 | 4.20 | 96.1 | 75-125 | | | |
| Beryllium | 0.229 | 0.00264 | ng/m ³ Air | 0.22809 | 0.0117 | 95.2 | 75-125 | | | |
| Cadmium | 0.141 | 0.0611 | ng/m ³ Air | 0.11404 | ND | 123 | 75-125 | | | |
| Chromium | 3.99 | 1.82 | ng/m ³ Air | 1.1404 | 2.85 | 100 | 75-125 | | | |

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

FILE #: 4205.00.003.001
REPORTED: 03/20/24 12:21
SUBMITTED: 03/04/24
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 B4C0503 - ICP-MS Extraction

Post Spike (B4C0503-PS2) Continued **Source: 4030429-32** Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|--------|---------|-----------------------|-----------|---------|------|--------|--|--|-------|
| Cobalt | 0.770 | 0.0360 | ng/m ³ Air | 0.22809 | 0.535 | 103 | 75-125 | | | |
| Copper | 72.2 | 2.17 | ng/m ³ Air | 11.404 | 59.3 | 113 | 75-125 | | | |
| Lead | 24.0 | 0.176 | ng/m ³ Air | 22.809 | 1.39 | 99.3 | 75-125 | | | |
| Manganese | 15.3 | 1.56 | ng/m ³ Air | 2.2809 | 12.7 | 116 | 75-125 | | | |
| Molybdenum | 3.34 | 0.296 | ng/m ³ Air | 1.1404 | 2.22 | 98.4 | 75-125 | | | |
| Nickel | 3.43 | 0.538 | ng/m ³ Air | 2.2809 | 1.18 | 98.7 | 75-125 | | | |
| Selenium | 1.29 | 0.00739 | ng/m ³ Air | 1.1404 | 0.153 | 100 | 75-125 | | | |
| Thallium | 0.0594 | 4.86E-4 | ng/m ³ Air | 5.7022E-2 | 0.00151 | 102 | 75-125 | | | QB-01 |
| Vanadium | 2.22 | 0.0436 | ng/m ³ Air | 1.1404 | 1.14 | 95.1 | 75-125 | | | |
| Zinc | ND | 63.3 | ng/m ³ Air | 22.809 | ND | | 75-125 | | | U |

Dilution Check (B4C0503-SRL1) **Source: 4030429-11** Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|--------|---------|-----------------------|--|--------|--|--|------|----|----------|
| Antimony | ND | 0.162 | ng/m ³ Air | | ND | | | 10 | | SL, U |
| Arsenic | 0.337 | 0.0394 | ng/m ³ Air | | 0.319 | | | 5.55 | 10 | |
| Barium | ND | 4.50 | ng/m ³ Air | | ND | | | | 10 | U |
| Beryllium | 0.0230 | 0.0135 | ng/m ³ Air | | 0.0234 | | | 1.59 | 10 | |
| Cadmium | ND | 0.312 | ng/m ³ Air | | ND | | | | 10 | U |
| Chromium | ND | 9.30 | ng/m ³ Air | | ND | | | | 10 | U |
| Cobalt | 0.436 | 0.183 | ng/m ³ Air | | 0.424 | | | 2.73 | 10 | |
| Copper | 49.0 | 11.1 | ng/m ³ Air | | 45.4 | | | 7.71 | 10 | |
| Lead | ND | 0.900 | ng/m ³ Air | | ND | | | | 10 | U |
| Manganese | 9.74 | 7.95 | ng/m ³ Air | | 9.52 | | | 2.36 | 10 | |
| Molybdenum | 2.29 | 1.51 | ng/m ³ Air | | 2.19 | | | 4.75 | 10 | |
| Nickel | ND | 2.74 | ng/m ³ Air | | ND | | | | 10 | U |
| Selenium | 0.175 | 0.0377 | ng/m ³ Air | | 0.162 | | | 7.66 | 10 | |
| Thallium | ND | 0.00248 | ng/m ³ Air | | ND | | | | 10 | QB-01, U |
| Vanadium | 1.24 | 0.223 | ng/m ³ Air | | 1.18 | | | 5.38 | 10 | |
| Zinc | ND | 323 | ng/m ³ Air | | ND | | | | 10 | U |

Dilution Check (B4C0503-SRL2) **Source: 4030429-32** Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|-----------|-------|--------|-----------------------|--|-------|--|--|-------|----|-------|
| Antimony | ND | 0.159 | ng/m ³ Air | | ND | | | | 10 | SL, U |
| Arsenic | 0.594 | 0.0386 | ng/m ³ Air | | 0.569 | | | 4.34 | 10 | |
| Barium | ND | 4.41 | ng/m ³ Air | | ND | | | | 10 | U |
| Beryllium | ND | 0.0132 | ng/m ³ Air | | ND | | | | 10 | U |
| Cadmium | ND | 0.306 | ng/m ³ Air | | ND | | | | 10 | U |
| Chromium | ND | 9.11 | ng/m ³ Air | | ND | | | | 10 | U |
| Cobalt | 0.539 | 0.180 | ng/m ³ Air | | 0.535 | | | 0.813 | 10 | |
| Copper | 62.8 | 10.8 | ng/m ³ Air | | 59.3 | | | 5.66 | 10 | |
| Lead | 1.38 | 0.882 | ng/m ³ Air | | 1.39 | | | 1.02 | 10 | |
| Manganese | 12.9 | 7.79 | ng/m ³ Air | | 12.7 | | | 1.73 | 10 | |

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: 03/20/24 12:21
SUBMITTED: 03/04/24
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 B4C0503 - ICP-MS Extraction

Dilution Check (B4C0503-SRL2) Continue Source: 4030429-32 Prepared & Analyzed: 03/05/24

| | | | | | | | | | | |
|------------|---------|---------|-----------------------|--|-------|--|--|------|----|-------|
| Molybdenum | 2.25 | 1.48 | ng/m ³ Air | | 2.22 | | | 1.17 | 10 | |
| Nickel | ND | 2.69 | ng/m ³ Air | | ND | | | | 10 | U |
| Selenium | 0.163 | 0.0369 | ng/m ³ Air | | 0.153 | | | 6.04 | 10 | |
| Thallium | 0.00264 | 0.00243 | ng/m ³ Air | | ND | | | 54.8 | 10 | QB-01 |
| Vanadium | 1.20 | 0.218 | ng/m ³ Air | | 1.14 | | | 5.06 | 10 | |
| Zinc | ND | 317 | ng/m ³ Air | | ND | | | | 10 | U |

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

FILE #: 4205.00.003.001

REPORTED: 03/20/24 12:21

SUBMITTED: 03/04/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Notes and Definitions

U Under Detection Limit
SL The spike recovery was outside acceptance limits. Reported value may be biased low.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD.
QB-01 Analyte exceeds method blank criteria
FB-01 Analyte exceeds Field Blank criteria.
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 3/21/2024 and Shanna Vasser 3/21/2024

Laboratory: Eastern Research Group – Morrisville, NC

Collection date(s): 2/8/2024 and 2/22/24 - 2/28/2024

Report No: 4030429

- √ 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.
- NA 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 detections above the method detection limit were reported for chromium and copper in MFL-FB01-022324-HM.

Notes:

- 1. Report was revised on March 20, 2024 to match updated volumes on the revised chain of custody.