State of Hawaii, Department of Health, Clean Air Branch 2023 Maui Wildfires Ambient Community Air Monitoring and Sampling Weekly Report Lahaina, Maui

My 30, 2024 through June 5, 2024 [Report Updated: August 12, 2024]

Tetra Tech, Inc. (Tetra Tech) prepared a Community Air Monitoring and Sampling Plan (CAMSP) to address community air monitoring during debris removal operations in response to the 2023 Maui Wildfires. Air monitoring and sampling occurred from May 30 through June 5, 2024, at the 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)

The CAMSP addresses ambient community air monitoring and sampling to assess conditions and determine whether debris removal activities, managed by the U.S. Army Corps of Engineers (USACE), and private contractors, significantly impact air quality in Lahaina. Data collected is made available to the State of Hawaii Department of Health, Clean Air Branch (HDOH) through an online shared site and the information presented in these weekly reports. Air monitoring and sampling as prescribed in the CAMSP will continue until debris removal activities are complete or until HDOH 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 CAMSP. Ambient air monitoring was performed to assess the presence of airborne particulates with a particle size diameter of 10 micrometers (μ m), which 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 from May 30 through June 5 at each of the locations. Monitoring results were compared to the National Ambient Air Quality Standard (NAAQS) for PM₁₀, 24-hour time-weighted average of 150 micrograms (μ g) per cubic meter (μ g/m³) screening level.

The weekly reports do not include air quality monitoring for fine particulate matter (particle size diameter of 2.5 μ m or less [PM_{2.5}]). The Department of Health or U.S. Environmental Protection Agency (EPA) monitors for this at six locations in Lahaina; results are accessible at https://fire.airnow.gov/.

Daily air sampling at all four community locations accorded with the CAMSP. Air samples were analyzed for asbestos and 16 metals, including antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, molybdenum, nickel, selenium, thallium, vanadium, and zinc. Analytical results were compared to Site Screening Action Levels (SSALs) for asbestos and metals, as presented in the CAMSP.

Air Monitoring Results

Real time PM₁₀ concentrations were detected at each monitoring location throughout this reporting period. None of the results exceeded the 150 μ g/m³ screening level, as shown in **Table 1**.

Air Sampling Results

Collection of 28 samples to be analyzed for asbestos fibers occurred at each monitoring location throughout this reporting period. All analytical results were below the SSAL of 0.003 fibers per cubic centimeter (fibers/cc) and below the laboratory's analytical sensitivity. **Table 2** lists results. Notably, the

laboratory commented "Numerous gypsum fibers present" regarding samples collected at the following monitoring stations:

- Leialii Hawaiian Homelands on May 30, June 4 and 5
- WW Pump Station #4 on May 30, June 3, 4, and 5
- Lahaina Intermediate School on June 5
- Lahaina Boys & Girls Club on June 4 and 5

Gypsum is a common material used in drywall, plaster, and cement, so its presence in the sample filters likely resulted from debris removal operations or other disturbances of built-environment fire debris. The presence of gypsum fibers in the samples was not sufficient to obscure asbestos analysis; nor did this pose a health and safety concern. Occupational health exposure thresholds for gypsum are 5 milligrams per cubic meter (mg/m³) for respirable dust, and 10 mg/m³ and 15 mg/m³, respectively, for total dust as time-weighted averages (National Institute for Occupational Safety and Health [NIOSH] and Occupational Safety and Health Administration [OSHA]). While total dust sampling has not occurred, results of size-discriminated particulate sampling (PM₃) at these locations do not approach these thresholds and are orders of magnitude less than occupational gypsum exposure criteria.

The heavy metal sample collected on June 4, 2024, from Leialii Hawaiian Homelands showed an exceedance of arsenic with a concentration of $0.537~\mu g/m^3$ versus the SSAL of $0.05~\mu g/m^3$. This sample was collected over an approximate 24-hour sampling period between June 3 and June 4, 2024. The average windspeed at this location during the sampling period was 1 mile per hour (mph) and generally originating from a southeast direction. USACE debris crews were observed working on June 3 in the area approximately 30 yards southwest and downwind from the sampling station. Field teams observed the utilization of dust suppression methods and no visible dust in the area during this work. Upwind of the sample location to the northeast, private contractors were conducting work on June 4 in the area approximately 10 feet from the sampling station at the adjacent property to clear metal debris in the yard. Dust was visible from this work location. An excavator was also in use for the construction of a rock wall across the street from the sampling station and tree removal crews were also observed in the general area.

Based on wind direction, use of dust suppression measures by USACE, and field observations of other dust and vapor producing activities, this arsenic exceedance was likely not attributable to USACE debris removal activities. For all other heavy metals, only low levels, below the respective SSALs, were detected in ambient air samples at all community sampling locations (see **Table 2**).

Laboratory data sheets conveying asbestos and metals results are in Appendix 1.

After discussion with HDOH, samples with elevated arsenic concentrations were re-analyzed by the laboratory to verify concentrations. This report has been updated to incorporate the re-analyzed lab results. The re-analyzed data are presented and discussed in the attached **Addendum to the Weekly Report**.

Meteorological Summary

Overall wind conditions during this weekly event averaged 1.1 mph originating from a generally south-southeast direction. **Table 3** summarizes meteorological data.

Quality Control Summary

This section presents quality control measures implemented throughout the air monitoring and sampling reporting period. All references and standard operating procedures (SOPs) are included in the CAMSP.

Air monitoring proceeded by use of Met One Instruments, Inc., environmental beta attenuation mass monitors (E-BAM) to allow comparison to 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 before monitoring according to the manufacturer's procedures.

Collection of samples to be analyzed for asbestos occurred by use of a Casella Vortex 3 or similar air sampling pump. Sampling flow rates are determined and documented by pre- and post- calibration of each sampling pump according to a primary calibration standard. Calibration and sampling accorded with Tetra Tech SOPs 064-2, "Calibration of Air Sampling Pump," and 073-3, "Air Quality Monitoring"; and EPA Environmental Response Team (ERT) SOPs 2008, "General Air Monitoring and Sampling Guidelines," and 2015 "Asbestos Air Sampling," included in the CAMSP.

Collection of samples to be analyzed for metals occurred by use of Tisch Environmental High Volume Air Samplers, or equivalent, in accordance with the following methods:

- EPA Compendium Method IO-2.1, Sampling of Ambient Air for Total Suspended Particulate Matter (SPM) and for PM₁₀ by Use of a High Volume (HV) Sampler
- EPA Compendium Method IO-3.5: Compendium of Methods for Determination of Inorganic Compounds in Ambient Air: Determination of Metals in Ambient Particulate Matter Via Inductively Coupled Plasma/Mass Spectrometry (ICP/MS). EPA/625/R-96/010a
- EPA 40 Code of Federal Regulations (CFR) Part 50, Method for Determination of Lead in Total Suspended Particulate Matter
- EPA 40 CFR Part 58, Appendix E: Probe and Monitoring Path Siting Criteria for Ambient Air Quality Monitoring
- SOPs for Lead Monitoring by Use of a Total Suspended Particulate (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 off-site analytical laboratories, analytical data are maintained in an electronic database and compared to SSALs. Level 1 data verification of all analytical data occurs, and an industrial hygienist reviews results.

State of Hawaii, Department of Health, Clean Air Branch 2023 Maui Wildfires

Addendum to Ambient Community Air Monitoring and Sampling Weekly Report Lahaina, Maui May 30, 2024 through June 5, 2024

The weekly report presenting community air monitoring and sampling results from May 30 through June 5, 2024, reported an arsenic concentration of 0.537 micrograms per cubic meter ($\mu g/m^3$) in the sample collected from the Leialii Hawaiian Homelands on June 4, 2024, which exceeded the Site Screening Action Levels (SSAL) of 0.05 $\mu g/m^3$, as presented in the CAMSP. No other samples showed exceedances of the SSAL. However, two other sample results were noted as being higher as compared to the other arsenic sample results and these two samples were conservatively re-analyzed along with the June 4 sample. These samples, collected on May 31 and June 5, were reported with concentrations of 0.0120 $\mu g/m^3$ and 0.0423 $\mu g/m^3$, respectively, which remained below the SSAL. Each sample was collected over an approximate 24-hour sampling period. This Addendum to the weekly report addresses the originally reported exceedance and the re-analyzed concentrations for the three samples noted above.

Reported environmental conditions on May 31 included an average windspeed of 0.9 mile per hour (mph), generally originating from an east-southeast direction. On June 4, an average windspeed of 1 mph, generally originating from a southeast direction was recorded. On June 5, an average windspeed of 1 mph, generally originating from an east-southeast direction was recorded.

USACE debris crews were observed working on June 3 in the area approximately 30 yards southwest and downwind from the sampling station. Field teams observed the utilization of dust suppression methods and no visible dust in the area during this work. Upwind of the sample location to the northeast, private contractors were conducting work on June 4 in the area approximately 10 feet from the monitoring station at the adjacent property to clear metal debris in the yard. Dust was visible from this work location. An excavator was also in use for the construction of a rock wall across the street from the air monitor and tree removal crews were also observed in the general area.

Following the reporting of the exceedance, and approval from HDOH, the three arsenic samples were reanalyzed by the laboratory to verify concentrations. A table showing the original results compared with the re-analyzed results can be found below:

| | Analyte | Arsenic | Arsenic (re-analysis) |
|-----------|------------------------------------|---------|--------------------------|
| | Units | μg/m³ | μg/m ³ |
| | Screening Level* | 0.05 | 0.05 |
| 5/31/2024 | Leialii Hawaiian Homelands (AM-01) | 0.0120 | 0.0124 |
| 6/4/2024 | Leialii Hawaiian Homelands (AM-01) | 0.537 | 0.499 |
| 6/5/2024 | Leialii Hawaiian Homelands (AM-01) | 0.0423 | 0.0475 |

Notes:

The re-analysis showed little variance from the originally reported values and was able to verify the exceedance reported for the sample collected on June 4 and that there were no exceedances of the SSAL on May 31 and June 5. A full table with the results for metals including the re-analyzed samples can be found in the Weekly Report in **Table 2**. The laboratory data sheets for re-analyzed metal samples results are included in the Weekly Report as **Appendix 1**.

^{*} Laboratory data were provided in nanograms per cubic meter, however data shown in Table 1 has been converted to micrograms per cubic meter so data were comparable to SSALs.



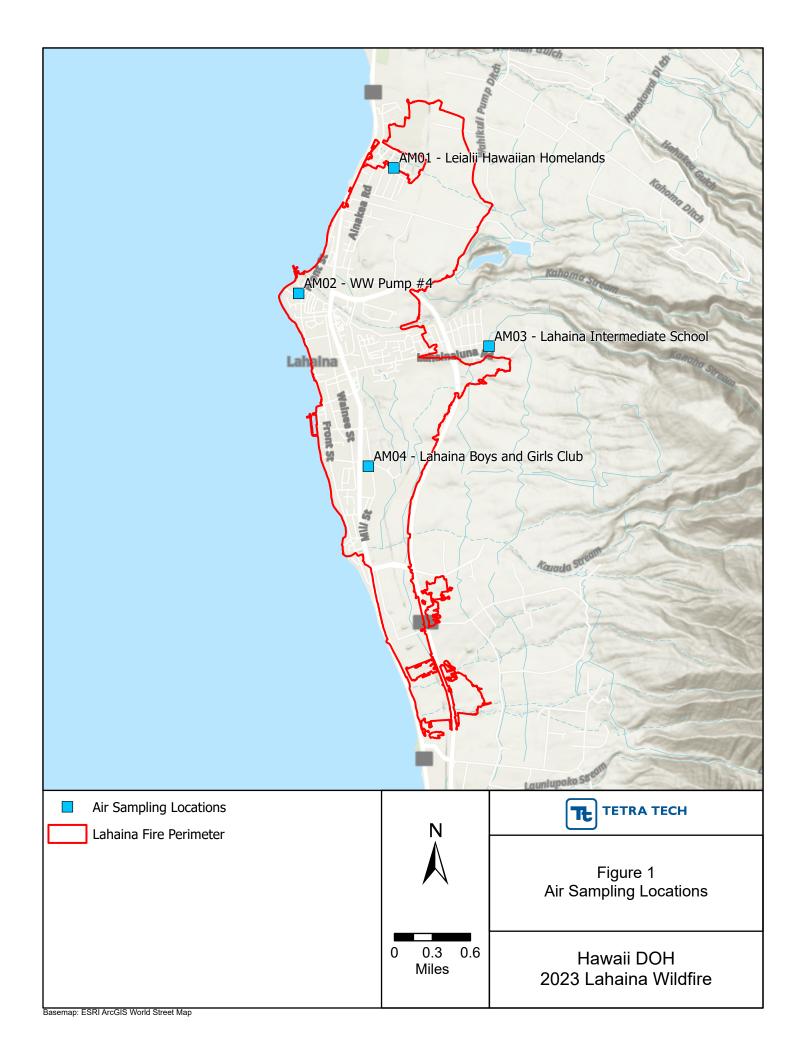


Table 1 State of Hawaii, Department of Health, Clean Air Branch Particulate Monitoring Results for PM₁₀ Maui Wildfires, Lahaina May 30 through June 5, 2024 [Report Updated: August 12, 2024]

| Screening 1 | Level | 150 μg/m ³ |
|-------------|-------------------------------------|-----------------------|
| | Leialii Hawaiian Homelands (AM-01) | 12 |
| 5/30/2024 | WW Pump Station #4 (AM-02) | 11 |
| 3/30/2024 | Lahaina Intermediate School (AM-03) | 12 |
| | Lahaina Boys & Girls Club (AM-04) | 7.5 |
| | Leialii Hawaiian Homelands (AM-01) | 9.4 |
| 5/31/2024 | WW Pump Station #4 (AM-02) | 5.7 |
| 3/31/2024 | Lahaina Intermediate School (AM-03) | 7.9 |
| | Lahaina Boys & Girls Club (AM-04) | 5.3 |
| | Leialii Hawaiian Homelands (AM-01) | 15 |
| 6/1/2024 | WW Pump Station #4 (AM-02) | 11 |
| 6/1/2024 | Lahaina Intermediate School (AM-03) | 8.9 |
| | Lahaina Boys & Girls Club (AM-04) | 5.3 |
| | Leialii Hawaiian Homelands (AM-01) | 9.1 |
| 6/2/2024 | WW Pump Station #4 (AM-02) | 12 |
| 0/2/2024 | Lahaina Intermediate School (AM-03) | 8.6 |
| | Lahaina Boys & Girls Club (AM-04) | 7.2 |
| | Leialii Hawaiian Homelands (AM-01) | 9.8 |
| 6/3/2024 | WW Pump Station #4 (AM-02) | 11 |
| 0/3/2024 | Lahaina Intermediate School (AM-03) | 10 |
| | Lahaina Boys & Girls Club (AM-04) | 7.4 |
| | Leialii Hawaiian Homelands (AM-01) | 23 |
| 6/4/2024 | WW Pump Station #4 (AM-02) | 18 |
| 6/4/2024 | Lahaina Intermediate School (AM-03) | 13 |
| | Lahaina Boys & Girls Club (AM-04) | 11 |
| | Leialii Hawaiian Homelands (AM-01) | 14 |
| 6/5/2024 | WW Pump Station #4 (AM-02) | 16 |
| 0/3/2024 | Lahaina Intermediate School (AM-03) | 14 |
| | Lahaina Boys & Girls Club (AM-04) | 9.3 |

Notes:

 $\mu g/m3 = micrograms \ per \ cubic \ meter$

24 hour TWA calculation results are shown in two significant figures

Table 2 State of Hawaii, Department of Health, Clean Air Branch Asbestos and Metals Sampling Results Maui Wildfires, Lahaina May 30 through June 5, 2024 [Report Updated: August 12, 2024]

| Leialii F | Units reening Level* Hawaiian Homelands (AM-01) W Pump Station #4 (AM-02) Ita Intermediate School (AM-03) Ita Boys & Girls Club (AM-04) Hawaiian Homelands (AM-01) W Pump Station #4 (AM-02) Ita Intermediate School (AM-03) Ita Boys & Girls Club (AM-04) | s/cc 0.003 ¹ <0.0024 <0.0027 <0.0024 <0.0024 <0.0024 <0.0024 <0.0024 | μg/m³ 0.7 0.000423 0.000922 0.0000829 0.000133 0.000389 | μg/m ³ 0.05 0.00858 0.000319 0.000390 0.00184 | μg/m³ 0.05 | μg/m³ 1.2 0.00996 0.00521 | μg/m ³ 0.05 0.0000232 0.0000172 | μg/m ³ 0.02 ND | µg/m³ 12 | μg/m ³ 0.01 | μg/m ³ | μg/m³ | μg/m³ | μg/m ³ | μg/m³ | μg/m ³ | μg/m ³ | μg/m ³ | μg/m ³ |
|--|--|---|---|--|---------------|---------------------------|--|---------------------------------|----------|---------------------------|-------------------|----------|--------|-------------------|---------|-------------------|-------------------|-------------------|-------------------|
| 5/30/2024 | Hawaiian Homelands (AM-01) W Pump Station #4 (AM-02) Ia Intermediate School (AM-03) Ia Boys & Girls Club (AM-04) Hawaiian Homelands (AM-01) W Pump Station #4 (AM-02) Ia Intermediate School (AM-03) | <0.0024 <0.0027 <0.0024 <0.0024 <0.0024 <0.0024 | 0.000423 0.0000922 0.0000829 0.000133 | 0.00858 0.000319 0.000390 | 0.05 | 0.00521 | 0.0000232 | | | 0.01 | 240 | 1.5 | | | | | | | |
| 5/30/2024 | W Pump Station #4 (AM-02) a Intermediate School (AM-03) a Boys & Girls Club (AM-04) Hawaiian Homelands (AM-01) W Pump Station #4 (AM-02) a Intermediate School (AM-03) | <0.0027 <0.0024 <0.0024 <0.0024 <0.0024 | 0.0000922 0.0000829 0.000133 | 0.000319 0.000390 | | 0.00521 | 0.0000-0- | ND | | | 240 | 1.5 | 0.12 | 4.8 | 0.02 | 48 | 24 | 0.24 | 1200 |
| 5/30/2024 Lahaina Lahaina Licalini S/31/2024 WW Lahaina | na Intermediate School (AM-03) na Boys & Girls Club (AM-04) Hawaiian Homelands (AM-01) W Pump Station #4 (AM-02) na Intermediate School (AM-03) | <0.0024 <0.0024 <0.0024 <0.0024 | 0.0000829 0.000133 | 0.000390 | | 0.000 | 0.0000173 | | 0.00593 | 0.000909 | 0.220 | 0.00342 | 0.0302 | 0.0106 | 0.00284 | 0.000292 | 0.00000320 | 0.00305 | ND |
| Lahana Lahaina Lahai | na Boys & Girls Club (AM-04) Hawaiian Homelands (AM-01) W Pump Station #4 (AM-02) na Intermediate School (AM-03) | <0.0024 <0.0024 <0.0024 | 0.000133 | | | | 0.0000172 | ND | 0.00296 | 0.000572 | 0.0469 | 0.000701 | 0.0164 | 0.00228 | 0.00228 | 0.000255 | 0.00000179 | 0.00195 | ND |
| Leialii H | Hawaiian Homelands (AM-01) W Pump Station #4 (AM-02) na Intermediate School (AM-03) | <0.0024 <0.0024 | | 0.00184 | | 0.00594 | 0.0000714 | ND | 0.00359 | 0.000890 | 0.0368 | 0.000773 | 0.0221 | 0.00198 | 0.00220 | 0.000302 | 0.00000219 | 0.00223 | ND |
| 5/31/2024 WW Lahaina Lahaina Leialii H 6/1/2024 Lahaina Lahaina Lahaina | W Pump Station #4 (AM-02) na Intermediate School (AM-03) | < 0.0024 | 0.000389 | 0.00104 | | 0.00604 | 0.0000249 | ND | 0.00377 | 0.000705 | 0.0266 | 0.00211 | 0.0236 | 0.00134 | 0.00203 | 0.000276 | 0.00000216 | 0.00212 | ND |
| Lahaina Lahaina Lahaina Leialii Leialii WW Lahaina | na Intermediate School (AM-03) | 0.00- | | 0.0120 | 0.0124 | 0.0138 | 0.0000301 | ND | 0.00871 | 0.00143 | 0.239 | 0.00208 | 0.0437 | 0.0103 | 0.00353 | 0.000281 | 0.00000341 | 0.00476 | ND |
| Lahaina Laha | | | 0.000100 | 0.000389 | | 0.00534 | 0.0000176 | ND | 0.00270 | 0.000570 | 0.0579 | 0.000940 | 0.0168 | 0.00261 | 0.00182 | 0.000193 | 0.00000146 | 0.00175 | ND |
| 6/1/2024 | na Bovs & Girls Club (AM-04) | < 0.0024 | 0.0000696 | 0.000395 | | 0.00543 | 0.0000670 | ND | 0.00408 | 0.000923 | 0.0365 | 0.000753 | 0.0230 | 0.00189 | 0.00226 | 0.000254 | 0.00000187 | 0.00202 | ND |
| 6/1/2024 WW Lahaina Lahaina | | < 0.0024 | 0.000121 | 0.00168 | | 0.00531 | 0.0000198 | 0.0000789 | 0.00353 | 0.000614 | 0.0291 | 0.00130 | 0.0196 | 0.00147 | 0.00176 | 0.000187 | 0.00000157 | 0.00165 | ND |
| 6/1/2024 Lahaina Lahaina | Hawaiian Homelands (AM-01) | < 0.0024 | 0.000121 | 0.00295 | | 0.00782 | 0.0000296 | ND | 0.00616 | 0.00145 | 0.213 | 0.000964 | 0.0382 | 0.0107 | 0.00394 | 0.000267 | 0.00000230 | 0.00385 | ND |
| Lahaina Lahaina | W Pump Station #4 (AM-02) | < 0.0027 | 0.000104 | 0.000507 | | 0.00561 | 0.0000185 | ND | 0.00347 | 0.000732 | 0.0476 | 0.00110 | 0.0190 | 0.00203 | 0.00216 | 0.000191 | 0.00000147 | 0.00212 | ND |
| | na Intermediate School (AM-03) | < 0.0027 | 0.0000562 | 0.000187 | | 0.00323 | 0.0000321 | ND | 0.00250 | 0.000436 | 0.0414 | 0.000402 | 0.0107 | 0.00219 | 0.00131 | 0.000172 | 0.00000138 | 0.00100 | ND |
| Leialii H | na Boys & Girls Club (AM-04) | < 0.0024 | 0.000107 | 0.000999 | | 0.00422 | 0.0000124 | ND | 0.00247 | 0.000384 | 0.0241 | 0.000927 | 0.0129 | 0.00140 | 0.00124 | 0.000157 | 0.00000135 | 0.00103 | ND |
| | Hawaiian Homelands (AM-01) | < 0.0024 | 0.0000945 | 0.00243 | | 0.0149 | 0.0000626 | 0.000101 | 0.0116 | 0.00299 | 0.190 | 0.00111 | 0.0736 | 0.00768 | 0.00929 | 0.000417 | 0.00000404 | 0.00757 | ND |
| (/2/2024 WW | W Pump Station #4 (AM-02) | < 0.0024 | 0.000321 | 0.00162 | | 0.00966 | 0.0000240 | ND | 0.00508 | 0.000897 | 0.0593 | 0.00204 | 0.0241 | 0.00238 | 0.00302 | 0.000238 | 0.00000266 | 0.00264 | ND |
| 6/2/2024 Lahaina | na Intermediate School (AM-03) | < 0.0024 | 0.0000608 | 0.000229 | | 0.00318 | 0.0000225 | ND | 0.00432 | 0.000420 | 0.0364 | 0.000476 | 0.0104 | 0.00221 | 0.00178 | 0.000182 | 0.00000193 | 0.00103 | ND |
| Lahaina | na Boys & Girls Club (AM-04) | < 0.0027 | 0.000122 | 0.00151 | | 0.00612 | 0.0000298 | ND | 0.00431 | 0.000753 | 0.0259 | 0.00150 | 0.0253 | 0.00136 | 0.00236 | 0.000253 | 0.00000244 | 0.00200 | ND |
| Leialii H | Hawaiian Homelands (AM-01) | < 0.0024 | 0.0000731 | 0.000979 | | 0.00653 | 0.0000216 | ND | 0.00552 | 0.000954 | 0.260 | 0.000552 | 0.0251 | 0.0156 | 0.00424 | 0.000259 | 0.00000283 | 0.00263 | ND |
| WW WW | W Pump Station #4 (AM-02) | < 0.0024 | 0.000323 | 0.00122 | | 0.00871 | 0.0000201 | ND | 0.00314 | 0.000681 | 0.0534 | 0.00170 | 0.0190 | 0.00230 | 0.00284 | 0.000249 | 0.00000281 | 0.00195 | ND |
| 6/3/2024 Lahaina | na Intermediate School (AM-03) | < 0.0024 | 0.0000720 | 0.000296 | | 0.00350 | 0.0000279 | ND | 0.00249 | 0.000447 | 0.0428 | 0.000549 | 0.0113 | 0.00279 | 0.00148 | 0.000239 | 0.00000237 | 0.00119 | ND |
| Lahaina | na Boys & Girls Club (AM-04) | < 0.0024 | 0.000104 | 0.000781 | | 0.00495 | 0.0000175 | ND | 0.00302 | 0.000510 | 0.0295 | 0.00127 | 0.0183 | 0.00154 | 0.00161 | 0.000246 | 0.00000257 | 0.00153 | ND |
| Leialii H | Hawaiian Homelands (AM-01) | < 0.0024 | 0.00937 | 0.537 | 0.499 | 0.327 | 0.0000721 | 0.00124 | 0.130 | 0.00469 | 0.624 | 0.00598 | 0.0965 | 0.0129 | 0.0115 | 0.000538 | 0.00000833 | 0.00794 | 0.994 |
| 6/4/2024 WW | W Pump Station #4 (AM-02) | < 0.0024 | 0.000228 | 0.00230 | | 0.00772 | 0.0000249 | ND | 0.00370 | 0.000710 | 0.0579 | 0.00193 | 0.0222 | 0.00222 | 0.00240 | 0.000346 | 0.00000354 | 0.00249 | ND |
| 6/4/2024 Lahaina | na Intermediate School (AM-03) | < 0.0027 | 0.000102 | 0.000586 | | 0.00570 | 0.0000345 | ND | 0.00270 | 0.000495 | 0.0464 | 0.00118 | 0.0137 | 0.00255 | 0.00160 | 0.000301 | 0.00000338 | 0.00151 | ND |
| Lahaina | na Boys & Girls Club (AM-04) | < 0.0024 | 0.000125 | 0.000613 | | 0.00567 | 0.0000169 | ND | 0.00293 | 0.000510 | 0.0281 | 0.00120 | 0.0186 | 0.00149 | 0.00164 | 0.000314 | 0.00000375 | 0.00175 | ND |
| Leialii H | Hawaiian Homelands (AM-01) | < 0.0024 | 0.00120 | 0.0423 | 0.0475 | 0.0445 | 0.0000630 | 0.000208 | 0.0193 | 0.00267 | 0.366 | 0.00297 | 0.0851 | 0.0114 | 0.00667 | 0.000528 | 0.00000795 | 0.00751 | 0.106 |
| WW | W Pump Station #4 (AM-02) | < 0.0024 | 0.000192 | 0.000950 | | 0.00754 | 0.0000255 | ND | 0.00372 | 0.000677 | 0.0522 | 0.00217 | 0.0248 | 0.00211 | 0.00186 | 0.000375 | 0.00000534 | 0.00247 | ND |
| 6/5/2024 Lahaina | na Intermediate School (AM-03) | < 0.0027 | 0.0000861 | 0.000323 | | 0.00413 | 0.0000300 | ND | 0.00258 | 0.000465 | 0.0541 | 0.00102 | 0.0128 | 0.00228 | 0.00149 | 0.000311 | 0.00000477 | 0.00143 | ND |
| Lahaina | na Boys & Girls Club (AM-04) | < 0.0027 | 0.000133 | 0.000588 | | 0.00503 | 0.0000161 | ND | 0.00260 | 0.000467 | 0.0301 | 0.00135 | 0.0164 | 0.00152 | 0.00144 | 0.000309 | 0.00000488 | 0.00160 | ND |
| | | | | | | • | | | | | | • | | • | | | • | | |
| 95% Upper | | NA | 0.000460 | 0.00173 | | | | | | | | | | | | | | | |

Notes:

Asbestos result determined by transmission electron microscopy (TEM) in accordance with ISO Method 10312. PCMe results are presented here.

 $s/cc = structures \ per \ cubic \ centimeter$

ug/m3 = micrograms per cubic meter NA = Not Applicable

ND = Not detected at or above the laboratory reporting limit

Exceedance from Heavy Metal sample at Leialii Hawaiian Homelands (AM-01) on 6/4

 $^{^2\,95\%}$ UCL determined through 'best fit' lognormal or normal parametric statistics via W test

Table 3

State of Hawaii, Department of Health, Clean Air Branch Meteorological Data

Maui Wildfires, Lahaina

May 30 through June 5, 2024

[Report Updated: August 12, 2024]

| | | | Wind | Wind | | Rel | Baro |
|-----------|------------|-----------------------------|-------|-----------|-------------|----------|----------|
| | | | Speed | Direction | Temperature | Humidity | Pressure |
| Date | Station ID | Weather Station Name | (mph) | (angle) | (°F) | (%) | (mBar) |
| 5/30/2024 | AM-01 | Leialii Hawaiian Homelands | 1.1 | SE | 82 | 57 | 762.1 |
| 5/30/2024 | AM-02 | WW Pump Station #4 | 1.1 | SSE | 81 | 62 | 764.2 |
| 5/30/2024 | AM-03 | Lahaina Intermediate School | 1.2 | ESE | 79 | 60 | 754.6 |
| 5/30/2024 | AM-04 | Lahaina Boys & Girls Club | 1.1 | SSW | 78 | 63 | 763.8 |
| 5/31/2024 | AM-01 | Leialii Hawaiian Homelands | 0.9 | ESE | 81 | 58 | 761.8 |
| 5/31/2024 | AM-02 | WW Pump Station #4 | 0.9 | SSE | 81 | 63 | 764.0 |
| 5/31/2024 | AM-03 | Lahaina Intermediate School | 1.0 | ESE | 78 | 63 | 754.4 |
| 5/31/2024 | AM-04 | Lahaina Boys & Girls Club | 0.9 | S | 77 | 64 | 763.6 |
| 6/1/2024 | AM-01 | Leialii Hawaiian Homelands | 1.8 | ESE | 81 | 55 | 761.5 |
| 6/1/2024 | AM-02 | WW Pump Station #4 | 1.3 | SE | 82 | 59 | 763.6 |
| 6/1/2024 | AM-03 | Lahaina Intermediate School | 1.3 | ESE | 79 | 58 | 754.0 |
| 6/1/2024 | AM-04 | Lahaina Boys & Girls Club | 1.1 | S | 78 | 61 | 763.3 |
| 6/2/2024 | AM-01 | Leialii Hawaiian Homelands | 1.2 | SE | 82 | 55 | 761.8 |
| 6/2/2024 | AM-02 | WW Pump Station #4 | 1.0 | S | 82 | 61 | 764.0 |
| 6/2/2024 | AM-03 | Lahaina Intermediate School | 1.2 | SE | 79 | 60 | 754.3 |
| 6/2/2024 | AM-04 | Lahaina Boys & Girls Club | 1.2 | SSW | 78 | 63 | 763.6 |
| 6/3/2024 | AM-01 | Leialii Hawaiian Homelands | 0.8 | SE | 82 | 64 | 761.9 |
| 6/3/2024 | AM-02 | WW Pump Station #4 | 1.0 | SSE | 82 | 69 | 764.1 |
| 6/3/2024 | AM-03 | Lahaina Intermediate School | 1.1 | SE | 79 | 67 | 754.4 |
| 6/3/2024 | AM-04 | Lahaina Boys & Girls Club | 1.0 | SSW | 79 | 69 | 763.7 |
| 6/4/2024 | AM-01 | Leialii Hawaiian Homelands | 1.0 | SE | 82 | 64 | 761.9 |
| 6/4/2024 | AM-02 | WW Pump Station #4 | 1.1 | SSE | 82 | 70 | 764.0 |
| 6/4/2024 | AM-03 | Lahaina Intermediate School | 1.4 | SSE | 81 | 64 | 754.5 |
| 6/4/2024 | AM-04 | Lahaina Boys & Girls Club | 1.1 | SSW | 78 | 70 | 763.6 |
| 6/5/2024 | AM-01 | Leialii Hawaiian Homelands | 1.0 | ESE | 82 | 61 | 761.8 |
| 6/5/2024 | AM-02 | WW Pump Station #4 | 1.0 | SE | 82 | 68 | 763.9 |
| 6/5/2024 | AM-03 | Lahaina Intermediate School | 1.1 | ESE | 79 | 66 | 754.3 |
| 6/5/2024 | AM-04 | Lahaina Boys & Girls Club | 0.9 | S | 78 | 68 | 763.5 |

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.



042411210 EMSL Order: TTDC42 **Customer ID: Customer PO:** 1207085 Project ID: N/A

> Phone: (703) 489-2674

N/A Fax:

06/05/2024 09:45 AM Received Date: 06/11/2024

Analysis Date: Report Date: 06/12/2024

Project: Maui Fires - Lahaina

Attn: Chelsea Saber

Tetra Tech

1560 Broadway, Suite 1400

Denver, CO, 80202

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM01-053024-AB Sample Description: DK797410 **Customer Sample Number:** EMSL Sample Number: 042411210-0001 Sample Matrix: Air Magnification used for fiber counting: 20,000 Volume (L): 7148.9 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0128 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: Target Analytical Sensitivity (Structures/cc): 0.001 Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

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

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | |
|----------------------------------|----------|----------------|-----------------|--------------|---------------|---------------------------------|
| | (>5 ı | microns in len | gth with > | 3:1 Aspect F | Ratio) | |
| | Minimum | Fibers De | Fibers Detected | | Concentration | 95 % Confidence Interval (F/cc) |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |

Comment

lumerous gypsum fibers present.



Project ID:

Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411210- | 0001 | | | Customer | Sample: | MFL-AM01-053024-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| A6 | J3 | None Detected | | | | | | | |
| A6 | F6 | None Detected | | | | | | | |
| A6 | A7 | None Detected | | | | | | | |
| A7 | H8 | None Detected | | | | | | | |
| A7 | D5 | None Detected | | | | | | | |



Phone: (703) 489-2674

Fax: N/A

Received Date: 06/05/2024 09:45 AM Analysis Date: 06/11/2024

Report Date: 06/12/2024

Attn: Chelsea Saber

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

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM02-053024-AB Sample Description: DK797425 **Customer Sample Number:** 042411210-0002 EMSL Sample Number: Sample Matrix: Air 7054.0 Magnification used for fiber counting: 20,000 Volume (L): Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): ≥ 0.5 0.0128 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry

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

ADX

0.0009

Minimum Level of analysis (amphibole):

Analytical Sensitivity (Structures/cc):

Limit of Detection (Structures/cc): 0.0027

| | | TOTAL STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|--------------|---------|----------------------|---------------|---------------------------------|
| | Minimum | Structures D | etected | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | Primary | Total | (S/mm ²) | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | |
|----------------------------------|----------|----------------|------------|--------------|---------------|---------------------------------|
| | (>5 ı | microns in len | gth with > | 3:1 Aspect F | Ratio) | |
| | Minimum | Fibers Det | tected | Density | Concentration | 95 % Confidence Interval (F/cc) |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Total All Structures (PCMe) | = | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |

Comment

Numerous gypsum fibers present.

Robyn Tay

Approved Signatory



Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411210- | 0002 | | | Customer | Sample: | MFL-AM02-053024-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|-------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| B5 | H6 | None Detected | | | | | | | |
| B5 | E3 | None Detected | | | | | | | |
| B5 | B5 | None Detected | | | | | | | |
| В6 | A4 | None Detected | | | | | | | |
| B6 | E5 | None Detected | | | | | | | |



Phone: (703) 489-2674

Fax: N/A

Received Date: 06/05/2024 09:45 AM

Analysis Date: 06/11/2024 **Report Date:** 06/12/2024

Project: Maui Fires - Lahaina

Denver, CO, 80202

Attn: Chelsea Saber

Tetra Tech

1560 Broadway, Suite 1400

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM03-053024-AB Sample Description: DK797311 **Customer Sample Number:** 042411210-0003 EMSL Sample Number: Sample Matrix: Air Magnification used for fiber counting: 20,000 Volume (L): 7189.5 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): ≥ 0.5 0.0128 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: 8
Target Analytical Sensitivity (Structures/cc): 0.001
Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

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

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | |
|----------------------------------|----------|----------------|-----------------|--------------|---------------|---------------------------------|
| | (>5 ı | microns in len | gth with > | 3:1 Aspect I | Ratio) | |
| | Minimum | Fibers Det | Fibers Detected | | Concentration | 95 % Confidence Interval (F/cc) |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory



Project ID:

Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411210- | 0003 | | | Customer | Sample: | MFL-AM03-053024-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| C1 | B5 | None Detected | | | | | | | |
| C1 | F9 | None Detected | | | | | | | |
| C1 | I 5 | None Detected | | | | | | | |
| C2 | C3 | None Detected | | | | | | | |
| C1 | H7 | None Detected | | | | | | | |



Phone: (703) 489-2674

Fax: N/A

Received Date: 06/05/2024 09:45 AM

Analysis Date: 06/11/2024 **Report Date:** 06/12/2024

Tetra Tech

1560 Broadway, Suite 1400 Denver, CO, 80202

Project: Maui Fires - Lahaina

Attn: Chelsea Saber

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM04-053024-AB Sample Description: DK797328 **Customer Sample Number:** EMSL Sample Number: 042411210-0004 Sample Matrix: Air 7161.6 Magnification used for fiber counting: 20,000 Volume (L): Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0128 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: 6
Target Analytical Sensitivity (Structures/cc): 0.001
Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

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

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | | | | | | | |
|---|----------|------------|----------|-------------|---------------|---------------------------------|--|--|--|--|--|--|
| (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | | | | | | |
| | Minimum | Fibers De | tected | Density | Concentration | 95 % Confidence Interval (F/cc) | | | | | | |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower Upper | | | | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total All Structures (PCMe) | _ | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |

Comment

Approved Signatory



Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411210- | 0004 | | | Customer | Sample: | MFL-AM04-053024-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| C5 | J4 | None Detected | | | | | | | |
| C5 | F2 | None Detected | | | | | | | |
| C5 | В7 | None Detected | | | | | | | |
| C7 | H6 | None Detected | | | | | | | |
| C7 | D5 | None Detected | | | | | | | |



Phone: (703) 489-2674

Fax: N/A

Received Date: 06/05/2024 09:45 AM

Analysis Date: 06/11/2024

Report Date: 06/12/2024

Denver, CO, 80202

Project: Maui Fires - Lahaina

1560 Broadway, Suite 1400

Attn: Chelsea Saber

Tetra Tech

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-FB01-053024-AB Sample Description: DK797337 **Customer Sample Number:** EMSL Sample Number: 042411210-0005 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 (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0128 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: 10 Minimum Level of analysis (chrysotile): CD Analyst: G.Barry 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) Structures Detected Concentration 95 % Confidence Interval (S/cc) Minimum ID Level Primary Total (S/mm²) (S/cc) Lower Upper **Total Chrysotile** CD < 23.36 Total Amphibole ADX 0 0 < 23.36 Actinolite ADX 0 0 < 23.36 Amosite ADX 0 0 < 23.36 ADX < 23.36 Anthophyllite 0 0 Crocidolite ADX 0 0 < 23.36 ADX 0 0 Tremolite < 23.36 Total Asbestos Structures CD/ADX 0 0 < 23.36 Other Minerals 0 0 < 23.36 **Total All Structures** 0 < 23.36

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | } | | | | | | | |
|---|----------|---|----------|-------------|--------|-------|-------|--|--|--|--|--|
| (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | | | | | | |
| | Minimum | Minimum Fibers Detected Density Concentration 95 % Co | | | | | | | | | | |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower | Upper | | | | | |
| Fotal Chrysotile (PCMe) | CD | 0 | 0 | < 23.36 | | | | | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.36 | | | | | | | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | | | | | | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | | | | | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | | | | | | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | | | | | | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | | | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.36 | | | | | | | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | | | | | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.36 | | | | | | | | |

Comment

Approved Signatory



Project ID:

Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411210- | 0005 | | | Customer | Sample: | MFL-FB01-053024-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| D1 | А3 | None Detected | | | | | | | |
| D1 | D8 | None Detected | | | | | | | |
| D1 | G5 | None Detected | | | | | | | |
| D1 | J4 | None Detected | | | | | | | |
| D1 | 18 | None Detected | | | | | | | |
| D2 | F6 | None Detected | | | | | | | |
| D2 | A5 | None Detected | | | | | | | |
| D3 | H7 | None Detected | | | | | | | |
| D3 | E3 | None Detected | | | | | | | |
| D3 | B6 | None Detected | | | | | | | |



Phone: (703) 489-2674

Fax: N/A

Received Date: 06/05/2024 09:45 AM

Analysis Date: 06/11/2024 **Report Date:** 06/12/2024

Attn: Chelsea Saber

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

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM01-053124-AB Sample Description: DK797333 **Customer Sample Number:** 042411210-0006 EMSL Sample Number: Sample Matrix: Air Magnification used for fiber counting: 20,000 Volume (L): 7270.1 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0128 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: 6
Target Analytical Sensitivity (Structures/cc): 0.001
Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

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

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | |
|----------------------------------|----------|----------------|------------|--------------|---------------|---------------------------------|
| | (>5 ı | microns in len | gth with > | 3:1 Aspect I | Ratio) | |
| | Minimum | Fibers Det | tected | Density | Concentration | 95 % Confidence Interval (F/cc) |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory



Project ID:

Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411210- | 0006 | | | Customer | Sample: | MFL-AM01-053124-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| D5 | I 7 | None Detected | | | | | | | |
| D5 | G4 | None Detected | | | | | | | |
| D5 | C6 | None Detected | | | | | | | |
| D6 | H8 | None Detected | | | | | | | |
| D6 | D4 | None Detected | | | | | | | |



042411210 EMSL Order: TTDC42 **Customer ID: Customer PO:** 1207085 Project ID: N/A

Attn: Chelsea Saber Phone: (703) 489-2674 Tetra Tech

N/A Fax:

06/05/2024 09:45 AM Received Date: 06/11/2024

Analysis Date: Report Date: 06/12/2024

Denver, CO, 80202

1560 Broadway, Suite 1400

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM02-053124-AB Sample Description: DK797332 **Customer Sample Number:** EMSL Sample Number: 042411210-0007 Sample Matrix: Air Magnification used for fiber counting: 20,000 Volume (L): 7129.9 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0128 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: Target Analytical Sensitivity (Structures/cc): 0.001 Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

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

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | |
|----------------------------------|----------|----------------|------------|--------------|---------------|---------------------------------|
| | (>5 ı | microns in len | gth with > | 3:1 Aspect I | Ratio) | |
| | Minimum | Fibers Det | tected | Density | Concentration | 95 % Confidence Interval (F/cc) |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 |

Comment



Project ID:

Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411210- | 0007 | | | Customer | Sample: | MFL-AM02-053124-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| E1 | J5 | None Detected | | | | | | | |
| E1 | E4 | None Detected | | | | | | | |
| E1 | В7 | None Detected | | | | | | | |
| E2 | G8 | None Detected | | | | | | | |
| E2 | D6 | None Detected | | | | | | | |



042411210 EMSL Order: TTDC42 **Customer ID: Customer PO:** 1207085 Project ID: N/A

Attn: Chelsea Saber Phone: (703) 489-2674 Tetra Tech

N/A Fax:

06/05/2024 09:45 AM Received Date:

1560 Broadway, Suite 1400 Denver, CO, 80202 Analysis Date: 06/11/2024

Report Date: 06/12/2024

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM03-053124-AB Sample Description: DK797352 **Customer Sample Number:** EMSL Sample Number: 042411210-0008 Sample Matrix: Air 7251.8 Magnification used for fiber counting: 20,000 Volume (L): Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): ≥ 0.5 0.0128 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: Target Analytical Sensitivity (Structures/cc): 0.001 Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

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

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | | | | | | | |
|---|----------|------------|----------|-------------|---------------|---------------------------------|--|--|--|--|--|--|
| (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | | | | | | |
| | Minimum | Fibers Det | tected | Density | Concentration | 95 % Confidence Interval (F/cc) | | | | | | |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower Upper | | | | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |

Comment



Project ID: Maui Fire

Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411210- | 8000 | | | Customer | Sample: | MFL-AM03-053124-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| E5 | A7 | None Detected | | | | | | | |
| E5 | F4 | None Detected | | | | | | | |
| E5 | 15 | None Detected | | | | | | | |
| E6 | C3 | None Detected | | | | | | | |
| E6 | H4 | None Detected | | | | | | | |



Phone: (703) 489-2674

Fax: N/A

Received Date: 06/05/2024 09:45 AM Analysis Date: 06/11/2024

Report Date: 06/12/2024

Attn: Chelsea Saber

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

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM04-053124-AB Sample Description: DK797365 **Customer Sample Number:** EMSL Sample Number: 042411210-0009 Sample Matrix: Air Magnification used for fiber counting: 20,000 Volume (L): 7176.4 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0128 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: 8
Target Analytical Sensitivity (Structures/cc): 0.001
Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

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

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | S | | | | | | | | |
|----------------------------------|---|------------|----------|-------------|---------------|---------------------------------|--|--|--|--|--|--|--|
| | (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | | | | | | |
| | Minimum | Fibers De | tected | Density | Concentration | 95 % Confidence Interval (F/cc) | | | | | | | |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower Upper | | | | | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | | |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | | |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | | |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | | |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | | |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | | |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | | |
| Total All Structures (PCMe) | _ | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | | |

Comment

Approved Signatory



Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411210- | 0009 | | | Customer | Sample: | MFL-AM04-053124-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| F1 | 13 | None Detected | | | | | | | |
| F1 | G7 | None Detected | | | | | | | |
| F1 | B4 | None Detected | | | | | | | |
| F2 | C8 | None Detected | | | | | | | |
| F2 | J4 | None Detected | | | | | | | |



042411210 EMSL Order: TTDC42 **Customer ID: Customer PO:** 1207085 Project ID: N/A

> Phone: (703) 489-2674

N/A Fax:

06/05/2024 09:45 AM Received Date: Analysis Date: 06/11/2024

Report Date: 06/12/2024

Denver, CO, 80202 Project: Maui Fires - Lahaina

1560 Broadway, Suite 1400

Attn: Chelsea Saber

Tetra Tech

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-FB01-053124-AB Sample Description: DK797349 **Customer Sample Number:** EMSL Sample Number: 042411210-0010 Sample Matrix: Air 0.0 Magnification used for fiber counting: 20,000 Volume (L): Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): ≥ 0.5 0.0128 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: 10 Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

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

Limit of Detection (Structures/cc):

| | | TOTAL STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|--------------|---------------------|-------------|---------------|---------------------------------|
| | Minimum | Structures D | Structures Detected | | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | Primary | Total | (S/mm²) | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 23.36 | | |
| Total Amphibole | ADX | 0 | 0 | < 23.36 | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.36 | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | |
| Total All Structures | - | 0 | 0 | < 23.36 | | |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | } | | | | | | | |
|---|----------|-------------------|----------|-------------|---------------|----------------------------|-------|--|--|--|--|--|
| (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | | | | | | |
| | Minimum | Fibers De | tected | Density | Concentration | 95 % Confidence Interval (| | | | | | |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower | Upper | | | | | |
| Fotal Chrysotile (PCMe) | CD | 0 | 0 | < 23.36 | | | | | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.36 | | | | | | | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | | | | | | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | | | | | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | | | | | | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | | | | | | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | | | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.36 | | | | | | | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | | | | | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.36 | | | | | | | | |

Comment





Project ID:

Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL Sample ID: 042411210-0010 | | | | | | Customer Sample: MFL-FB01-053124 | | | | |
|------------|--------------------------------|----------------|--------------------------------|------------------------------|----------------|--------------|----------------------------------|-----------------|--------------------|--|--|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments | | |
| F5 | J9 | None Detected | | | | | | | | | |
| F5 | H4 | None Detected | | | | | | | | | |
| F5 | E2 | None Detected | | | | | | | | | |
| F5 | B5 | None Detected | | | | | | | | | |
| F6 | 17 | None Detected | | | | | | | | | |
| F6 | G3 | None Detected | | | | | | | | | |
| F6 | C7 | None Detected | | | | | | | | | |
| F7 | D2 | None Detected | | | | | | | | | |
| F7 | D6 | None Detected | | | | | | | | | |
| F7 | 14 | None Detected | | | | | | | | | |



Phone: (703) 489-2674

Fax: N/A

Received Date: 06/05/2024 09:45 AM **Analysis Date:** 06/12/2024

Report Date: 06/12/2024

Attn: Chelsea Saber Tetra Tech

1560 Broadway, Suite 1400 Denver, CO, 80202

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM01-060124-AB Sample Description: DK797397 **Customer Sample Number:** EMSL Sample Number: 042411210-0011 Sample Matrix: Air Magnification used for fiber counting: 20,000 Volume (L): 7162.6 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): ≥ 0.5 0.0128 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: 6
Target Analytical Sensitivity (Structures/cc): 0.001
Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

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

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | | | | | | | |
|---|----------|------------|----------|-------------|---------------|---------------------------------|--|--|--|--|--|--|
| (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | | | | | | |
| | Minimum | Fibers Det | tected | Density | Concentration | 95 % Confidence Interval (F/cc) | | | | | | |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower Upper | | | | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |

Comment

Approved Signatory



Project ID:

Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411210- | 0011 | | | Customer | Sample: | MFL-AM01-060124-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|-------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| G1 | J9 | None Detected | | | | | | | |
| G1 | G5 | None Detected | | | | | | | |
| G1 | В7 | None Detected | | | | | | | |
| G2 | H4 | None Detected | | | | | | | |
| G2 | D4 | None Detected | | | | | | | |



Phone: (703) 489-2674

Fax: N/A

Received Date: 06/05/2024 09:45 AM **Analysis Date:** 06/12/2024

Report Date: 06/12/2024

Attn: Chelsea Saber Tetra Tech

1560 Broadway, Suite 1400 Denver, CO, 80202

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM02-060124-AB Sample Description: DK797363 **Customer Sample Number:** 042411210-0012 EMSL Sample Number: Sample Matrix: Air Magnification used for fiber counting: 20,000 Volume (L): 6900.9 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): ≥ 0.5 0.0128 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: 8
Target Analytical Sensitivity (Structures/cc): 0.001
Analytical Sensitivity (Structures/cc): 0.0009

Limit of Detection (Structures/cc): 0.0027

| TOTAL STRUCTURES (All Sizes) | | | | | | | | | | |
|------------------------------|----------|--------------|---------------------|----------------------|---------------|---------------------------------|--|--|--|--|
| | Minimum | Structures D | Structures Detected | | Concentration | 95 % Confidence Interval (S/cc) | | | | |
| | ID Level | Primary | Total | (S/mm ²) | (S/cc) | Lower Upper | | | | |
| | | | | | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | | | | |
|--|----------|---------|-------|---------|----------|-------------------------|--|--|--|--|
| | | | | | | | | | | |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower Upper | | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 | | | | |

Comment

Approved Signatory



Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| EMSL Sample ID: | | | 042411210- | 0012 | | | Customer | Sample: | MFL-AM02-060124-AB |
|-----------------|-----------------|----------------|--------------------------------|------------------------------|-------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| G6 | B4 | None Detected | | | | | | | |
| G6 | E7 | None Detected | | | | | | | |
| G6 | I 5 | None Detected | | | | | | | |
| G7 | А3 | None Detected | | | | | | | |
| G7 | G6 | None Detected | | | | | | | |



Phone: (703) 489-2674

Fax: N/A

Received Date: 06/05/2024 09:45 AM **Analysis Date:** 06/12/2024

Report Date: 06/12/2024

Attn: Chelsea Saber Tetra Tech

1560 Broadway, Suite 1400 Denver, CO, 80202

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM03-060124-AB Sample Description: DK797336 **Customer Sample Number:** 042411210-0013 EMSL Sample Number: Sample Matrix: Air Magnification used for fiber counting: 20,000 Volume (L): 7073.9 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): ≥ 0.5 0.0127 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

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

0.0009

Analytical Sensitivity (Structures/cc):

Limit of Detection (Structures/cc): 0.0027

| TOTAL STRUCTURES (All Sizes) | | | | | | | | | |
|------------------------------|----------|---------------------|---------------|---------|---------------|---------------------------------|--|--|--|
| | Minimum | Structures Detected | | Density | Concentration | 95 % Confidence Interval (S/cc) | | | |
| | ID Level | Primary | Primary Total | | (S/cc) | Lower Upper | | | |
| | | | | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | |
| Total Amphibole | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | |
| Total All Structures | - | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | |

| PCM EQUIVALENT (PCMe) Fibers (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | | | | |
|--|----------|---------|-------|---------|----------|-------------------------|--|--|--|--|
| | | | | | | | | | | |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower Upper | | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | |
| Total All Structures (PCMe) | _ | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | |

Comment

Approved Signatory



Project ID: Maui

Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| EMSL Sample ID: | | | 042411210- | 0013 | | | Customer | Sample: | MFL-AM03-060124-AB |
|-----------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| H1 | J4 | None Detected | | | | | | | |
| H1 | E5 | None Detected | | | | | | | |
| H2 | H8 | None Detected | | | | | | | |
| H2 | F3 | None Detected | | | | | | | |
| H2 | C5 | None Detected | | | | | | | |



 EMSL Order:
 042411210

 Customer ID:
 TTDC42

 Customer PO:
 1207085

 Project ID:
 N/A

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/05/2024 09:45 AM **Analysis Date:** 06/12/2024

Report Date: 06/12/2024

Attn: Chelsea Saber

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

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM04-060124-AB Sample Description: DK797334 **Customer Sample Number:** 042411210-0014 EMSL Sample Number: Sample Matrix: Air Magnification used for fiber counting: 20,000 Volume (L): 7309.4 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): ≥ 0.5 0.0128 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: 6
Target Analytical Sensitivity (Structures/cc): 0.001
Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

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

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | S | | | | | | | |
|---|----------|------------|----------|-------------|---------------|---------------------------------|--|--|--|--|--|--|
| (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | | | | | | |
| | Minimum | Fibers De | tected | Density | Concentration | 95 % Confidence Interval (F/cc) | | | | | | |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower Upper | | | | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total All Structures (PCMe) | _ | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |

Comment

Approved Signatory



Project ID:

Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411210- | 0014 | | | Customer | Sample: | MFL-AM04-060124-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|-------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| H5 | B7 | None Detected | | | | | | | |
| H5 | F3 | None Detected | | | | | | | |
| H5 | J5 | None Detected | | | | | | | |
| H6 | H9 | None Detected | | | | | | | |
| H6 | D4 | None Detected | | | | | | | |



 EMSL Order:
 042411210

 Customer ID:
 TTDC42

 Customer PO:
 1207085

 Project ID:
 N/A

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/05/2024 09:45 AM

Analysis Date: 06/12/2024 **Report Date:** 06/12/2024

Denver, CO, 80202

Attn: Chelsea Saber

Tetra Tech

Project: Maui Fires - Lahaina

1560 Broadway, Suite 1400

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-FB01-060124-AB Sample Description: DK797348 **Customer Sample Number:** 042411210-0015 EMSL Sample Number: Sample Matrix: Air 0.0 Magnification used for fiber counting: 20,000 Volume (L): Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): ≥ 0.5 0.0128 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: 10 Minimum Level of analysis (chrysotile): CD Analyst: G.Barry 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 STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|---------------------|---------|-------------|---------------|---------------------------------|
| | Minimum | Structures Detected | | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | Primary | Total | (S/mm²) | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 23.36 | | |
| Total Amphibole | ADX | 0 | 0 | < 23.36 | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.36 | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | |
| Total All Structures | - | 0 | 0 | < 23.36 | | |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | • | | | | | | |
|---|----------|-------------------|----------|-------------|---------------|-----------------------------|-------|--|--|--|--|
| (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | | | | | |
| | Minimum | Fibers Det | tected | Density | Concentration | 95 % Confidence Interval (F | | | | | |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower | Upper | | | | |
| Fotal Chrysotile (PCMe) | CD | 0 | 0 | < 23.36 | | | | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.36 | | | | | | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | | | | | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | | | | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | | | | | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | | | | | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.36 | | | | | | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | | | | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.36 | | | | | | | |

Comment





Project ID:

Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411210- | 0015 | | | Customer | Sample: | MFL-FB01-060124-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|-------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| l1 | J4 | None Detected | | | | | | | |
| I 1 | H8 | None Detected | | | | | | | |
| I 1 | E5 | None Detected | | | | | | | |
| I1 | B1 | None Detected | | | | | | | |
| 13 | 13 | None Detected | | | | | | | |
| 13 | G7 | None Detected | | | | | | | |
| 13 | C4 | None Detected | | | | | | | |
| 14 | J7 | None Detected | | | | | | | |
| 14 | G2 | None Detected | | | | | | | |
| 14 | D5 | None Detected | | | | | | | |



042411210 EMSL Order: TTDC42 **Customer ID: Customer PO:** 1207085 Project ID: N/A

> Phone: (703) 489-2674

N/A Fax:

06/05/2024 09:45 AM Received Date:

Report Date:

Analysis Date:

06/12/2024 06/12/2024

Project: Maui Fires - Lahaina

Attn: Chelsea Saber

Tetra Tech

1560 Broadway, Suite 1400

Denver, CO, 80202

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM01-060224-AB Sample Description: DK797361 **Customer Sample Number:** EMSL Sample Number: 042411210-0016 Sample Matrix: Air Magnification used for fiber counting: 20,000 Volume (L): 7191.9 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0128 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: Target Analytical Sensitivity (Structures/cc): 0.001 Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

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

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | | | | | | |
|---|----------|-----------------|----------|-------------|---------------|---------------------------------|--|--|--|--|--|
| (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | | | | | |
| | Minimum | Fibers Detected | | Density | Concentration | 95 % Confidence Interval (F/cc) | | | | | |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower Upper | | | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Total All Structures (PCMe) | _ | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | |

Comment



Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411210- | 0016 | | | Customer | Sample: | MFL-AM01-060224-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|-------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| 16 | B4 | None Detected | | | | | | | |
| 16 | D7 | None Detected | | | | | | | |
| 16 | H5 | None Detected | | | | | | | |
| 17 | E5 | None Detected | | | | | | | |
| 17 | 13 | None Detected | | | | | | | |



 EMSL Order:
 042411210

 Customer ID:
 TTDC42

 Customer PO:
 1207085

 Project ID:
 N/A

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/05/2024 09:45 AM

Analysis Date: 06/12/2024 **Report Date:** 06/12/2024

Attn: Chelsea Saber

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

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM02-060224-AB Sample Description: DK797376 **Customer Sample Number:** 042411210-0017 EMSL Sample Number: Sample Matrix: 7195.6 Magnification used for fiber counting: 20,000 Volume (L): Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0128 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: 6
Target Analytical Sensitivity (Structures/cc): 0.001
Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

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

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | S | | | | | | | |
|---|----------|------------|----------|-------------|---------------|---------------------------------|--|--|--|--|--|--|
| (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | | | | | | |
| | Minimum | Fibers De | tected | Density | Concentration | 95 % Confidence Interval (F/cc) | | | | | | |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower Upper | | | | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total All Structures (PCMe) | _ | 0 | 0 | < 46.72 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |

Comment

Approved Signatory



Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411210- | 0017 | | | Customer | Sample: | MFL-AM02-060224-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|-------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| J1 | A3 | None Detected | | | | | | | |
| J1 | F6 | None Detected | | | | | | | |
| J1 | J8 | None Detected | | | | | | | |
| J2 | G5 | None Detected | | | | | | | |
| J2 | C5 | None Detected | | | | | | | |



042411210 EMSL Order: TTDC42 **Customer ID: Customer PO:** 1207085 Project ID: N/A

> Phone: (703) 489-2674

N/A Fax:

06/05/2024 09:45 AM Received Date:

Analysis Date: 06/12/2024

Report Date: 06/12/2024

1560 Broadway, Suite 1400 Denver, CO, 80202

Project: Maui Fires - Lahaina

Attn: Chelsea Saber

Tetra Tech

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM03-060224-AB Sample Description: DK797343 **Customer Sample Number:** 042411210-0018 EMSL Sample Number: Sample Matrix: Air Magnification used for fiber counting: 20,000 Volume (L): 7130.0 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): ≥ 0.5 0.0128 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: Target Analytical Sensitivity (Structures/cc): 0.001 Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

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

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

Comment



Project ID:

Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411210- | 0018 | | Customer | Sample: | MFL-AM03-060224-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|------------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| J5 | 17 | None Detected | | | | | | |
| J5 | F3 | None Detected | | | | | | |
| J6 | C8 | None Detected | | | | | | |
| J6 | C4 | None Detected | | | | | | |
| J6 | G6 | None Detected | | | | | | |



 EMSL Order:
 042411210

 Customer ID:
 TTDC42

 Customer PO:
 1207085

 Project ID:
 N/A

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/05/2024 09:45 AM **Analysis Date:** 06/12/2024

Report Date: 06/12/2024

Attn: Chelsea Saber

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

Project: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM04-060224-AB Sample Description: DK797338 **Customer Sample Number:** EMSL Sample Number: 042411210-0019 Sample Matrix: Air Magnification used for fiber counting: 20,000 Volume (L): 7012.7 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): ≥ 0.5 0.0128 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: 8
Target Analytical Sensitivity (Structures/cc): 0.001
Analytical Sensitivity (Structures/cc): 0.0009

Limit of Detection (Structures/cc): 0.0027

| | | TOTAL STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|---------------|---------|----------------------|---------------|---------------------------------|
| | Minimum | Structures D | etected | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | Primary Total | | (S/mm ²) | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Total Amphibole | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Total All Structures | - | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | |
|----------------------------------|----------|----------------|------------|--------------|---------------|---------------------------------|
| | (>5 | microns in len | gth with > | 3:1 Aspect F | Ratio) | |
| | Minimum | Fibers De | tected | Density | Concentration | 95 % Confidence Interval (F/cc) |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Actinolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Amosite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Anthophyllite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Crocidolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Tremolite | ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Other Minerals | - | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |
| Total All Structures (PCMe) | _ | 0 | 0 | < 46.72 | < 0.0027 | Not Applicable - 0.0027 |

Comment

Approved Signatory



Project ID:

Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411210- | 0019 | | | Customer | Sample: | MFL-AM04-060224-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| K1 | J6 | None Detected | | | | | | | |
| K1 | E3 | None Detected | | | | | | | |
| K1 | A4 | None Detected | | | | | | | |
| K2 | H7 | None Detected | | | | | | | |
| K2 | C9 | None Detected | | | | | | | |



 EMSL Order:
 042411210

 Customer ID:
 TTDC42

 Customer PO:
 1207085

 Project ID:
 N/A

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/05/2024 09:45 AM

Analysis Date: 06/12/2024 **Report Date:** 06/12/2024

Project: Maui Fires - Lahaina

Denver, CO, 80202

1560 Broadway, Suite 1400

Attn: Chelsea Saber

Tetra Tech

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-FB01-060224-AB Sample Description: DK797339 **Customer Sample Number:** EMSL Sample Number: 042411210-0020 Sample Matrix: Air 0.0 Magnification used for fiber counting: 20,000 Volume (L): Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): ≥ 0.5 0.0128 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: 10 Minimum Level of analysis (chrysotile): CD Analyst: G.Barry 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 STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|--------------|---------------|-------------|---------------|---------------------------------|
| | Minimum | Structures D | etected | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | Primary | Primary Total | | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 23.36 | | |
| Total Amphibole | ADX | 0 | 0 | < 23.36 | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.36 | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | |
| Total All Structures | - | 0 | 0 | < 23.36 | | |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | • | | | |
|----------------------------------|----------|-------------------|------------|--------------|---------------|--------------------------------|-------|--|
| | (>5 ı | microns in len | gth with > | 3:1 Aspect R | atio) | | | |
| | Minimum | Fibers Det | tected | Density | Concentration | 95 % Confidence Interval (F/co | | |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower | Upper | |
| Fotal Chrysotile (PCMe) | CD | 0 | 0 | < 23.36 | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.36 | | | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.36 | | | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.36 | | | | |

Comment





Project ID:

Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411210- | 0020 | | | Customer | Sample: | MFL-FB01-060224-AB |
|------------|-----------------|----------------|--------------------------------|-----------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| K5 | A4 | None Detected | | | | | | | |
| K5 | D7 | None Detected | | | | | | | |
| K5 | G5 | None Detected | | | | | | | |
| K5 | 19 | None Detected | | | | | | | |
| K6 | 13 | None Detected | | | | | | | |
| K6 | H9 | None Detected | | | | | | | |
| K6 | C6 | None Detected | | | | | | | |
| K7 | В3 | None Detected | | | | | | | |
| K7 | F7 | None Detected | | | | | | | |
| K7 | J6 | None Detected | | | | | | | |



 EMSL Order:
 042411210

 Customer ID:
 TTDC42

 Customer PO:
 1207085

 Project ID:
 N/A

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/05/2024 09:45 AM Analysis Date: 06/11/2024

Analysis Date: 06/11/2024 **Report Date:** 06/12/2024

1560 Broadway, Suite 1400 Denver, CO, 80202

Project: Maui Fires - Lahaina

Attn: Chelsea Saber

Tetra Tech

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

Sample Description: Lab Blank **Customer Sample Number:** Lab Blank EMSL Sample Number: 042411210-0021 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 (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0128 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: 10 Minimum Level of analysis (chrysotile): CD Analyst: G.Barry 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) Structures Detected Concentration 95 % Confidence Interval (S/cc) Minimum ID Level Primary Total (S/mm²) (S/cc) Lower Upper **Total Chrysotile** CD < 23.36 Total Amphibole ADX 0 0 < 23.36 Actinolite ADX 0 0 < 23.36 Amosite ADX 0 0 < 23.36 ADX < 23.36 Anthophyllite 0 0 Crocidolite ADX 0 0 < 23.36 ADX O 0 Tremolite < 23.36 Total Asbestos Structures CD/ADX 0 0 < 23.36 Other Minerals 0 0 < 23.36 **Total All Structures** 0 < 23.36

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | } | | | |
|----------------------------------|----------|-------------------|------------|--------------|---------------|--------------------------------|-------|--|
| | (>5 ı | microns in len | gth with > | 3:1 Aspect F | latio) | | | |
| | Minimum | Fibers De | tected | Density | Concentration | 95 % Confidence Interval (F/co | | |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower | Upper | |
| Fotal Chrysotile (PCMe) | CD | 0 | 0 | < 23.36 | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.36 | | | | |
| Actinolite | ADX | 0 | 0 | < 23.36 | | | | |
| Amosite | ADX | 0 | 0 | < 23.36 | | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.36 | | | | |
| Crocidolite | ADX | 0 | 0 | < 23.36 | | | | |
| Tremolite | ADX | 0 | 0 | < 23.36 | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.36 | | | | |
| Other Minerals | - | 0 | 0 | < 23.36 | | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.36 | | | | |

Comment

Approved Signatory



Project ID: Maui Fires - Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | Sample ID: | 042411210- | 0021 | | | Customer | Sample: | Lab Blank |
|------------|-----------------|----------------|--------------------------------|------------------------------|-------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| A1 | A4 | None Detected | | | | | | | |
| A1 | D7 | None Detected | | | | | | | |
| A1 | G4 | None Detected | | | | | | | |
| A1 | J2 | None Detected | | | | | | | |
| A2 | В3 | None Detected | | | | | | | |
| А3 | J7 | None Detected | | | | | | | |
| А3 | G4 | None Detected | | | | | | | |
| А3 | E8 | None Detected | | | | | | | |
| А3 | D3 | None Detected | | | | | | | |
| А3 | A5 | None Detected | | | | | | | |

OrderID: 042411210

| EMSL | A | sbestos Chain of Cu | A STATE OF THE PARTY OF THE PAR | | 200 F | SL Analytical, Inc. Route 130 North aminson, NJ 08077 | D |
|--|--------------------------------------|------------------------------------|--|-----------------------|-------------------------------|---|-------------|
| EMSL ANALYTICAL, IN | IC. | #0424 | 111 | 2 1 0 | C/A EMA | 11 | |
| Customer ID: | | | If Bill-To is the s Billing ID: | ame as Report-To lea | eve this section black. Third | | |
| Company Name: TE | TRA TECH | | Company N | lame: | | W-5/AI | 1: 5, |
| Company Name: TE Contact Name: CHI Street Address: IEA | ELSEA SABER | 1400 | Billing Cont | | | | 26 |
| | O BRUADWAY VER, CO 8020 | | City. State, | 50000 | | Country: | |
| Phone: 703-4 | 189-2674 | 1 | City. State, | | | | |
| Email(s) for Report: ch | elsea.saberet | etratech.com | Email(s) for | Invoice: | | | |
| Project MAUI I | FIRES-LAHA | | formation | | Purchase Order: 120 | 77085 | |
| EMSL LIMS Project ID: | 12100 | | US State where samples collecte | | tate of Connecticut (CT) mi | ust select project location: | |
| provide) | IA EPSTEIN | Sampled By Signature: | ^ | 1112 | Commercial (Taxa | No. of Samples in Shipment | Non-Taxable |
| OT INV | | Turn-Aroun | d-Time (TAT) | | | - | |
| 3 Hour 4-4.5 H | A ONLY | 24 Hour 32 Hour | 48 H | | Hour 96 Hour | √ 1 Week | 2 Week |
| D/ | CM Air | | election | only, sumples must be | | | |
| NIOSH 7400 | OHI AII | AHERA 40 CFR, Par | | | TEM - Settled D | | |
| NIOSH 7400 w/ 8h | r. TWA Bulk (reporting limit) | NIOSH 7402 | | | Wipe - ASTM Di | | |
| PLM EPA 600/R-9 | | ISO 10312* | | | = | Prop Mount Prep | |
| PLM EPA NOB (< | 1%) | TEM EPA NOB | Bulk | | Soil - Rock - V | Vermiculite (reporting | limit)* |
| 400 (<0.259 | 6) 1,000 (<0.1%) | NYS NOB 198.4 (No | n-Friable-NY) | | _ | R-93/116 with milling pre | |
| POINT COUNT w/ | | TEM EPA 600/R-93/ | 116 w Milling Pr | rep (0.1%) | | R-93/116 with milling pro R-93/116 with milling pro | |
| NIOSH 9002 (<1% | b) | Other Test | please specify | ď | TEM Qualitative | via Filtration Prep | |
| NYS 198.1 (Friable NYS 198.6 NOB (| | | | | TEM Qualitative | via Drop Mount Prep | |
| NYS 198.8 (Vermi | iculite SM-V) | | | | | | |
| Positive Stop - C | learly Identified Homogeneou | *Please call with your sareas (HA) | | Size (Air Sample: | s) 0.8um | 0.45um | |
| Sample Number | Samp | le Location / Description | | Volume, Area o | r Homogeneous Area | Date / Time Sa (Air Monitorin | |
| MFL-AMOI- | 053024-AB | DK797410 | | 7,148. | | 05/30/24 | 1054 |
| MFL-AMOQ-1 | 053024-AB | DK797425 | | 7,053. | .953 | 05/30/24 | 1115 |
| MFL-AMO3- | 053024-AB | DK 797311 | | 7,189 | .478 | 05/30/24 | 1304 |
| MFL-AMO9- | 053024-AB | DK79732 | | 7,161. | 552 | 05/30/24 | 1327 |
| MFL-FB01- | 053024-AB | DK 797 33 | | (| CC | 05/30/24 | 1200 |
| | 053124-AB | DK 797 33 | | 7,270 | 0.056 | 05/31/24 | 1057 |
| • | 053124-AB | DK 79733 | | 7,129 | .872 | 05/31/24 | 1119 |
| MFL-AMU3- | 053124-AB Special Instructions ar | DK 79735 | | 7, 25 | | 05/31/24 | 1259 |
| | | mples received | | | | .s. | |
| Method of Shipment: FED | EX | | Sample Co | ndition Upon Receip | t | F 1 | |
| Relinquished by: SHAINA | EPSTEIN | Date/Time: 06/03/24 110 | Received to | | , redex | Date/Time 6 52 | 4 9:45 |
| Refinquished by: Controlled Document - COC-05 Asbesto | os R16 10/26/2021 | Date/Time: | Received to | y. | | Date/Time | |

OrderID: 042411210



Asbestos Chain of Custody (Air, Bulk, Soil) EMSL Order Number / Lab Use Only

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

#042411210

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

| Sample Number | Sample Lo | cation / Description | Volume, Area or Homogeneous Area | Date / Time Sa (Air Monitorin | |
|------------------|-----------|----------------------|----------------------------------|----------------------------------|--------|
| 4FL-AM09-053124 | -AB | Dk791365 | 7,176,414 | 05/31/24 1 | 323 |
| MFL-FBO1-053124. | | DK797349 | 0 | 05/31/24 | 1200 |
| 4FL-AMO1-060124- | AB | Dk797397 | 7,162,614 | 06/1/24 | 1041 |
| 1FL-AMOZ-060124- | AB | DK 797363 | 6,900.912 | 06/1/24 | 1126 |
| MFL-AM03-060124 | - AB | DK 797336 | 7,073.856 | 06/1/24 | 1305 |
| 1FL-AM04-060124 | -AB | DK 797334 | 7,309.368 | 06/1/24 | 1326 |
| 1FL-FBOI-06012A. | AB | DK797348 | 0 | 06/1/24 | 1200 |
| MFL-AMOI-06022A. | YB | DK797361 | 7,191.936 | 06/2/24 | 1050 |
| MFL-AMO2-06022A- | AB | DK797376 | 7,195.627 | 06/2/24 | 1130 |
| MFL-AM03-060229 | - AB | DK791343 | 7,129.954 | 06/2/24 | 1309 |
| MFL-AMUA-060229 | - AB | PK197335 | 7,012-699 | 06/2/24 | 1334 |
| MFZ-FBOI-060224 | 7 AB | DK191339 | 0 | 06/2/24 | 1200 |
| | 12 | | | | |
| | | A CHARLES | a Charles and | 2 | 0 |
| | | | | | 至 |
| | | | | | - |
| | | | | Č | 7 3 |
| | | | | | 7 3 |
| | | | | | 11: 36 |
| | | | | | 8 |
| | | | | | |
| | 10 | | | | |
| | | | | | |
| | | | | | |

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 C ditions 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.

Page of

Stage 1 Data Verification Checklist – Asbestos

HDOH CAB – Ambient Community Air Sampling – Lahaina

Task Order No. 23141

Reviewed by:

Kierra Johnson 06/14/2024 and Shanna Vasser 06/17/2024

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

Collection date(s): 05/30/2024 - 06/02/224

Report No: 42411210

| ٧ | 1. | Chain of custody | (CoC |) documentation is preser | ıt. |
|----------|----|------------------|------|---------------------------|-----|
| <u> </u> | | | , | , accomment to presen | |

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

Discrepancies: None

Notes: None



 EMSL Order:
 042411596

 Customer ID:
 TTDC42

 Customer PO:
 1207085

 Project ID:
 N/A

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/10/2024 09:00 AM Analysis Date: 06/12/2024

Report Date: 06/16/2024

Attn: Chelsea Saber Tetra Tech

1560 Broadway, Suite 1400 Denver, CO, 80202

Project: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM01-060324-AB Sample Description: DK797373 **Customer Sample Number:** EMSL Sample Number: 042411596-0001 Sample Matrix: 20,000 Magnification used for fiber counting: Volume (L): 7195.8 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0127 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: 7
Target Analytical Sensitivity (Structures/cc): 0.001
Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| | | TOTAL STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|--------------|---------------|-------------|---------------|---------------------------------|
| | Minimum | Structures D | etected | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | Primary | Primary Total | | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | |
|----------------------------------|----------|------------------|------------|----------------------|---------------|---------------------------------|
| | (>5 | microns in len | gth with > | 3:1 Aspect F | Ratio) | |
| | Minimum | Fibers De | tected | Density | Concentration | 95 % Confidence Interval (F/cc) |
| | ID Level | Primary Total (F | | (F/mm ²) | (F/cc) | Lower Upper |
| Fotal Chrysotile (PCMe) | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | <u>-</u> | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Approved Signatory



Project ID: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL Sample ID: 042411596-0001 | | | | Customer | Sample: | MFL-AM01-060324-AB | | |
|------------|--------------------------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| D5 | A7 | None Detected | | | | | | | |
| D5 | E5 | None Detected | | | | | | | |
| D5 | 14 | None Detected | | | | | | | |
| D6 | G8 | None Detected | | | | | | | |
| D6 | D4 | None Detected | | | | | | | |



042411596 EMSL Order: TTDC42 **Customer ID: Customer PO:** 1207085 Project ID: N/A

> Phone: (703) 489-2674

N/A Fax:

06/10/2024 09:00 AM Received Date:

Analysis Date: 06/12/2024

Report Date: 06/16/2024

Attn: Chelsea Saber Tetra Tech

1560 Broadway, Suite 1400 Denver, CO, 80202

Project: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM02-060324-AB Sample Description: DK797353 **Customer Sample Number:** EMSL Sample Number: 042411596-0002 Sample Matrix: Air 20,000 7139.1 Magnification used for fiber counting: Volume (L): Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0127 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry

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

ADX

Minimum Level of analysis (amphibole):

Analytical Sensitivity (Structures/cc):

Limit of Detection (Structures/cc): 0.0024

| | | TOTAL STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|--------------|---------------|-------------|---------------|---------------------------------|
| | Minimum | Structures D | etected | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | Primary | Primary Total | | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | |
|----------------------------------|----------|----------------|------------|--------------|---------------|---------------------------------|
| | (>5 ı | microns in len | gth with > | 3:1 Aspect F | Ratio) | |
| | Minimum | Fibers Det | tected | Density | Concentration | 95 % Confidence Interval (F/cc) |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |

Comment

lumerous gypsum fibers present.



Project ID: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL Sample ID: 04241159 | | | 0002 | | | Customer | Sample: | MFL-AM02-060324-AB |
|------------|--------------------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| E1 | B4 | None Detected | | | | | | | |
| E1 | E7 | None Detected | | | | | | | |
| E1 | J4 | None Detected | | | | | | | |
| E2 | C3 | None Detected | | | | | | | |
| E2 | G6 | None Detected | | | | | | | |



 EMSL Order:
 042411596

 Customer ID:
 TTDC42

 Customer PO:
 1207085

 Project ID:
 N/A

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/10/2024 09:00 AM Analysis Date: 06/12/2024

Report Date: 06/16/2024

Attn: Chelsea Saber

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

Project: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM03-060324-AB Sample Description: DK797360 **Customer Sample Number:** EMSL Sample Number: 042411596-0003 Sample Matrix: Air 20,000 Magnification used for fiber counting: Volume (L): 7486.7 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0127 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: 6
Target Analytical Sensitivity (Structures/cc): 0.001
Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| | | TOTAL STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|--------------|---------------|-------------|---------------|---------------------------------|
| | Minimum | Structures D | etected | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | Primary | Primary Total | | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | S | | |
|----------------------------------|----------|----------------|--------------------|--------------|---------------|---------------------------------|--|
| | (>5 | microns in len | gth with > | 3:1 Aspect F | Ratio) | | |
| | Minimum | Fibers De | tected | Density | Concentration | 95 % Confidence Interval (F/cc) | |
| | ID Level | Primary | nary Total (F/mm²) | | (F/cc) | Lower Upper | |
| Fotal Chrysotile (PCMe) | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Total All Structures (PCMe) | _ | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |

Comment

Approved Signatory



Project ID: Maui Fire

Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| EMSL Sample ID: 042411596-0003 | | | | | Customer | Sample: | MFL-AM03-060324-AB | | |
|--------------------------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| E5 | A5 | None Detected | | | | | | | |
| E5 | D8 | None Detected | | | | | | | |
| E5 | J7 | None Detected | | | | | | | |
| E6 | В6 | None Detected | | | | | | | |
| E6 | H5 | None Detected | | | | | | | |



1560 Broadway, Suite 1400

Denver, CO, 80202

042411596 EMSL Order: TTDC42 **Customer ID: Customer PO:** 1207085 Project ID: N/A

> Phone: (703) 489-2674

N/A Fax:

06/10/2024 09:00 AM Received Date:

Analysis Date: 06/13/2024 06/16/2024

Report Date:

Project: Maui Fires Lahaina

Attn: Chelsea Saber

Tetra Tech

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM04-060324-AB Sample Description: DK797340 **Customer Sample Number:** EMSL Sample Number: 042411596-0004 Sample Matrix: Air 20,000 Magnification used for fiber counting: Volume (L): 7145.3 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0127 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: Target Analytical Sensitivity (Structures/cc): 0.001 Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| | | TOTAL STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|--------------|---------------|-------------|---------------|---------------------------------|
| | Minimum | Structures D | etected | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | Primary | Primary Total | | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | S | | | | | | |
|---|----------|------------|----------|----------------------|---------------|---------------------------------|--|--|--|--|--|
| (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | | | | | |
| | Minimum | Fibers De | tected | Density | Concentration | 95 % Confidence Interval (F/cc) | | | | | |
| | ID Level | Primary | Total | (F/mm ²) | (F/cc) | Lower Upper | | | | | |
| Fotal Chrysotile (PCMe) | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Total All Structures (PCMe) | _ | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |

Comment



Project ID: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411596- | 0004 | | | Customer | Sample: | MFL-AM04-060324-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|-------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| F1 | H4 | None Detected | | | | | | | |
| F1 | F7 | None Detected | | | | | | | |
| F1 | B5 | None Detected | | | | | | | |
| F2 | C6 | None Detected | | | | | | | |
| F2 | G9 | None Detected | | | | | | | |



 EMSL Order:
 042411596

 Customer ID:
 TTDC42

 Customer PO:
 1207085

 Project ID:
 N/A

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/10/2024 09:00 AM Analysis Date: 06/13/2024

Report Date: 06/16/2024

Attn: Chelsea Saber

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

Project: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-FB01-060324-AB **Customer Sample Number:** Sample Description: DK797341 EMSL Sample Number: 042411596-0005 Sample Matrix: Air Magnification used for fiber counting: 20,000 0.0 Volume (L): Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Grid Opening Area (mm²): Minimum Length (um): 0.0127 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: 10 Minimum Level of analysis (chrysotile): CD Analyst: G.Barry 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) Structures Detected Concentration 95 % Confidence Interval (S/cc) Minimum ID Level Primary Total (S/mm²) (S/cc) Lower Upper **Total Chrysotile** CD < 23.54 Total Amphibole ADX 0 0 < 23.54 Actinolite ADX 0 0 < 23.54 Amosite ADX 0 0 < 23.54 ADX < 23.54 Anthophyllite 0 0 Crocidolite ADX 0 0 < 23.54 ADX 0 < 23.54 Tremolite 0 Total Asbestos Structures CD/ADX 0 0 < 23.54 Other Minerals 0 0 < 23.54 Total All Structures 0 0 < 23.54

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | } | | | | | | |
|---|----------|---------------------------------------|----------|-------------|---------------|-------------------------------|--|--|--|--|--|
| (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | | | | | |
| | Minimum | Fibers De | tected | Density | Concentration | 95 % Confidence Interval (F/c | | | | | |
| | ID Level | ID Level Primary Total (F/mm²) (F/cc) | | Lower | Upper | | | | | | |
| Fotal Chrysotile (PCMe) | CD | 0 | 0 | < 23.54 | | | | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.54 | | | | | | | |
| Actinolite | ADX | 0 | 0 | < 23.54 | | | | | | | |
| Amosite | ADX | 0 | 0 | < 23.54 | | | | | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.54 | | | | | | | |
| Crocidolite | ADX | 0 | 0 | < 23.54 | | | | | | | |
| Tremolite | ADX | 0 | 0 | < 23.54 | | | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.54 | | | | | | | |
| Other Minerals | - | 0 | 0 | < 23.54 | | | | | | | |
| Total All Structures (PCMe) | _ | 0 | 0 | < 23.54 | | | | | | | |

Comment

Approved Signatory



Project ID:

Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411596- | 0005 | | | Customer | Sample: | MFL-FB01-060324-AB |
|------------|-----------------|----------------|--------------------------------|-----------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| F5 | A8 | None Detected | | | | | | | |
| F5 | D5 | None Detected | | | | | | | |
| F5 | H3 | None Detected | | | | | | | |
| F5 | J6 | None Detected | | | | | | | |
| F6 | 18 | None Detected | | | | | | | |
| F6 | F3 | None Detected | | | | | | | |
| F6 | C6 | None Detected | | | | | | | |
| F7 | B4 | None Detected | | | | | | | |
| F7 | E7 | None Detected | | | | | | | |
| F7 | J7 | None Detected | | | | | | | |



 EMSL Order:
 042411596

 Customer ID:
 TTDC42

 Customer PO:
 1207085

 Project ID:
 N/A

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/10/2024 09:00 AM Analysis Date: 06/13/2024

Report Date: 06/16/2024

Attn: Chelsea Saber

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

Project: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM01-060424-AB Sample Description: DK797375 **Customer Sample Number:** EMSL Sample Number: 042411596-0006 Sample Matrix: 20,000 Magnification used for fiber counting: Volume (L): 7160.8 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0127 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry

Estimated Particulate Loading on Filter %: 9
Target Analytical Sensitivity (Structures/cc): 0.001
Analytical Sensitivity (Structures/cc): 0.0008

ADX

Minimum Level of analysis (amphibole):

Limit of Detection (Structures/cc): 0.0024

| | | TOTAL STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|--------------|---------|----------------------|---------------|---------------------------------|
| | Minimum | Structures D | etected | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | Primary | Total | (S/mm ²) | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | |
|----------------------------------|----------|-------------------|------------|----------------------|---------------|---------------------------------|
| | (>5 | microns in len | gth with > | 3:1 Aspect I | Ratio) | |
| | Minimum | Fibers Det | tected | Density | Concentration | 95 % Confidence Interval (F/cc) |
| | ID Level | Primary | Total | (F/mm ²) | (F/cc) | Lower Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |

Comment

Numerous gypsum fibers present.

Robyn Ray
Approved Signatory



Project ID: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411596- | 0006 | | | Customer | Sample: | MFL-AM01-060424-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| G1 | J3 | None Detected | | | | | | | |
| G1 | F7 | None Detected | | | | | | | |
| G1 | 17 | None Detected | | | | | | | |
| G2 | H6 | None Detected | | | | | | | |
| G2 | D4 | None Detected | | | | | | | |



042411596 EMSL Order: TTDC42 **Customer ID: Customer PO:** 1207085 Project ID: N/A

> Phone: (703) 489-2674

N/A Fax:

06/10/2024 09:00 AM Received Date: 06/14/2024

Report Date:

Analysis Date:

06/16/2024

Project: Maui Fires Lahaina

Denver, CO, 80202

1560 Broadway, Suite 1400

Attn: Chelsea Saber

Tetra Tech

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM02-060424-AB Sample Description: DK797355 **Customer Sample Number:** EMSL Sample Number: 042411596-0007 Sample Matrix: Air 20,000 Magnification used for fiber counting: Volume (L): 7142.6 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0127 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: Target Analytical Sensitivity (Structures/cc): 0.001 Analytical Sensitivity (Structures/cc): 0.0008

Limit of Detection (Structures/cc): 0.0024

| | | TOTAL STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|--------------|---------|----------------------|---------------|---------------------------------|
| | Minimum | Structures D | etected | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | Primary | Total | (S/mm ²) | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | |
|----------------------------------|----------|-------------------|------------|----------------------|---------------|---------------------------------|
| | (>5 | microns in len | gth with > | 3:1 Aspect I | Ratio) | |
| | Minimum | Fibers Det | tected | Density | Concentration | 95 % Confidence Interval (F/cc) |
| | ID Level | Primary | Total | (F/mm ²) | (F/cc) | Lower Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures (PCMe) | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |

Comment

lumerous gypsum fibers present.



Project ID: Maui Fires

Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411596- | 0007 | | | Customer | Sample: | MFL-AM02-060424-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| G5 | A7 | None Detected | | | | | | | |
| G5 | E4 | None Detected | | | | | | | |
| G5 | J6 | None Detected | | | | | | | |
| G6 | H2 | None Detected | | | | | | | |
| G6 | C8 | None Detected | | | | | | | |



1560 Broadway, Suite 1400

Denver, CO, 80202

042411596 EMSL Order: TTDC42 **Customer ID: Customer PO:** 1207085 Project ID: N/A

> Phone: (703) 489-2674

N/A Fax:

06/10/2024 09:00 AM Received Date:

Analysis Date:

Report Date:

06/14/2024 06/16/2024

Project: Maui Fires Lahaina

Attn: Chelsea Saber

Tetra Tech

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM03-060424-AB Sample Description: DK797369 **Customer Sample Number:** EMSL Sample Number: 042411596-0008 Sample Matrix: Air 20,000 Magnification used for fiber counting: Volume (L): 6882.4 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0127 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

Estimated Particulate Loading on Filter %: Target Analytical Sensitivity (Structures/cc): 0.001 Analytical Sensitivity (Structures/cc): 0.0009

Limit of Detection (Structures/cc): 0.0027

| | | TOTAL STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|--------------|---------|----------------------|---------------|---------------------------------|
| | Minimum | Structures D | etected | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | Primary | Total | (S/mm ²) | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Total Amphibole | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Total All Structures | - | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | | | | | | |
|---|----------|------------|----------|----------------------|---------------|---------------------------------|--|--|--|--|--|
| (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | | | | | |
| | Minimum | Fibers Det | tected | Density | Concentration | 95 % Confidence Interval (F/cc) | | | | | |
| | ID Level | Primary | Total | (F/mm ²) | (F/cc) | Lower Upper | | | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Fotal All Structures (PCMe) | _ | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |

Comment



Project ID: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| EMSL Sample ID: | | 042411596- | 8000 | | | Customer | Sample: | MFL-AM03-060424-AB | |
|-----------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|--------------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| H1 | 18 | None Detected | | | | | | | |
| H1 | G3 | None Detected | | | | | | | |
| H1 | B5 | None Detected | | | | | | | |
| H2 | H7 | None Detected | | | | | | | |
| H2 | D3 | None Detected | | | | | | | |



042411596 EMSL Order: TTDC42 **Customer ID: Customer PO:** 1207085 Project ID: N/A

> Phone: (703) 489-2674

N/A Fax:

06/10/2024 09:00 AM Received Date:

Analysis Date: 06/14/2024 Report Date: 06/16/2024

Tetra Tech Denver, CO, 80202

Attn: Chelsea Saber

Project: Maui Fires Lahaina

1560 Broadway, Suite 1400

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM04-060424-AB Sample Description: DK797327 **Customer Sample Number:** EMSL Sample Number: 042411596-0009 Sample Matrix:

Air 7175.4 Magnification used for fiber counting: 20,000 Volume (L): Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0127 ≥ 0.5

Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

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

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

| Anatytical Sensitivity (Structures/cc). | 0.0000 | Limit of Detection (Structures/cc). 0.0024 | | | | | |
|---|----------|--|---------|---------------------------------|-------------------------|---------------------------------|--|
| | | TOTAL STRU | JCTURES | (All Sizes) | | | |
| | Minimum | Structures Detected | | Density (S/mm ²) | Concentration (S/cc) | 95 % Confidence Interval (S/cc) | |
| | ID Level | Primary Total | | | | Lower Upper | |
| | | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Amphibole | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Fotal All Structures | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |

| Total All Structures | - | U | U | < 47.0 9 | < 0.0024 | Not Applicable - 0.0024 | |
|----------------------------------|----------|-------------------------|------------|----------------------|---------------|---------------------------------|--|
| | | PCM EQUIVA | ALENT (P | CMe) Fibers | S | | |
| | (>5 ı | microns in len | gth with > | 3:1 Aspect F | Ratio) | | |
| | Minimum | Minimum Fibers Detected | | Density | Concentration | 95 % Confidence Interval (F/cc) | |
| | ID Level | Primary | Total | (F/mm ²) | (F/cc) | Lower Upper | |
| Fotal Chrysotile (PCMe) | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |
| Total All Structures (PCMe) | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | |

Comment

lumerous gypsum fibers present.



Project ID: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411596- | 0009 | | | Customer | Sample: | MFL-AM04-060424-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| H5 | A7 | None Detected | | | | | | | |
| H5 | E4 | None Detected | | | | | | | |
| H6 | В4 | None Detected | | | | | | | |
| H6 | E9 | None Detected | | | | | | | |
| H6 | 17 | None Detected | | | | | | | |



 EMSL Order:
 042411596

 Customer ID:
 TTDC42

 Customer PO:
 1207085

 Project ID:
 N/A

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/10/2024 09:00 AM

Analysis Date: 06/14/2024 **Report Date:** 06/16/2024

Tetra Tech 1560 Broadway, Suite 1400

1560 Broadway, Suite 1400 Denver, CO, 80202

Project: Maui Fires Lahaina

Attn: Chelsea Saber

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-FB01-060424-AB **Customer Sample Number:** Sample Description: DK797364 EMSL Sample Number: 042411596-0010 Sample Matrix: Air Magnification used for fiber counting: 0.0 20,000 Volume (L): Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Grid Opening Area (mm²): Minimum Length (um): 0.0127 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: 10 Minimum Level of analysis (chrysotile): CD Analyst: G.Barry 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) Structures Detected Concentration 95 % Confidence Interval (S/cc) Minimum ID Level Primary Total (S/mm²) (S/cc) Lower Upper **Total Chrysotile** CD < 23.54 Total Amphibole ADX 0 0 < 23.54 Actinolite ADX 0 0 < 23.54 Amosite ADX 0 0 < 23.54 ADX < 23.54 Anthophyllite 0 0 Crocidolite ADX 0 0 < 23.54 ADX O 0 < 23.54 Tremolite **Total Asbestos Structures** CD/ADX 0 0 < 23.54 Other Minerals 0 0 < 23.54 **Total All Structures** 0 < 23.54

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | • | | | | | | | |
|---|----------|-------------------|----------|----------------------|---------------|---------------------------------|-------|--|--|--|--|--|
| (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | | | | | | |
| | Minimum | Fibers Det | tected | Density | Concentration | 95 % Confidence Interval (F/cc) | | | | | | |
| | ID Level | Primary | Total | (F/mm ²) | (F/cc) | Lower | Upper | | | | | |
| Fotal Chrysotile (PCMe) | CD | 0 | 0 | < 23.54 | | | | | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.54 | | | | | | | | |
| Actinolite | ADX | 0 | 0 | < 23.54 | | | | | | | | |
| Amosite | ADX | 0 | 0 | < 23.54 | | | | | | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.54 | | | | | | | | |
| Crocidolite | ADX | 0 | 0 | < 23.54 | | | | | | | | |
| Tremolite | ADX | 0 | 0 | < 23.54 | | | | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.54 | | | | | | | | |
| Other Minerals | - | 0 | 0 | < 23.54 | | | | | | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.54 | | | | | | | | |

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.



Project ID: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411596- | 0010 | | | Customer | Sample: | MFL-FB01-060424-AB |
|------------|-----------------|----------------|--------------------------------|-----------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| l1 | J6 | None Detected | | | | | | | |
| I 1 | G3 | None Detected | | | | | | | |
| I 1 | D6 | None Detected | | | | | | | |
| 11 | A5 | None Detected | | | | | | | |
| 12 | В3 | None Detected | | | | | | | |
| 12 | F8 | None Detected | | | | | | | |
| 12 | J9 | None Detected | | | | | | | |
| 13 | C5 | None Detected | | | | | | | |
| 13 | G2 | None Detected | | | | | | | |
| 13 | 16 | None Detected | | | | | | | |



 EMSL Order:
 042411596

 Customer ID:
 TTDC42

 Customer PO:
 1207085

 Project ID:
 N/A

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/10/2024 09:00 AM Analysis Date: 06/14/2024

Report Date: 06/16/2024

Denver, CO, 80202

1560 Broadway, Suite 1400

Attn: Chelsea Saber

Tetra Tech

Project: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM01-060524-AB Sample Description: DK797357 **Customer Sample Number:** EMSL Sample Number: 042411596-0011 Sample Matrix: Air 20,000 Magnification used for fiber counting: Volume (L): 7173.9 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0127 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry

Estimated Particulate Loading on Filter %: 8
Target Analytical Sensitivity (Structures/cc): 0.001
Analytical Sensitivity (Structures/cc): 0.0008

ADX

Minimum Level of analysis (amphibole):

Limit of Detection (Structures/cc): 0.0024

| | | TOTAL STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|--------------|---------|----------------------|---------------|---------------------------------|
| | Minimum | Structures D | etected | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | Primary | Total | (S/mm ²) | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | | | | | | |
|----------------------------------|----------|---|------------|----------------------|----------|-------------------------|--|--|--|--|--|
| | (>5 ı | microns in len | gth with > | 3:1 Aspect I | Ratio) | | | | | | |
| | Minimum | Minimum Fibers Detected Density Concentration | | | | | | | | | |
| | ID Level | Primary | Total | (F/mm ²) | (F/cc) | Lower Upper | | | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |
| Fotal All Structures (PCMe) | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | |

Comment

Numerous gypsum fibers present.

Robert Ray

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.



Project ID: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411596- | 0011 | | | Customer | Sample: | MFL-AM01-060524-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|-------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| 15 | A6 | None Detected | | | | | | | |
| 15 | F4 | None Detected | | | | | | | |
| 16 | C4 | None Detected | | | | | | | |
| 16 | D8 | None Detected | | | | | | | |
| 16 | J2 | None Detected | | | | | | | |



042411596 EMSL Order: TTDC42 **Customer ID: Customer PO:** 1207085 Project ID: N/A

> Phone: (703) 489-2674

N/A Fax:

06/10/2024 09:00 AM Received Date:

Analysis Date: 06/14/2024

Report Date: 06/16/2024

Attn: Chelsea Saber Tetra Tech

1560 Broadway, Suite 1400 Denver, CO, 80202

Project: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM02-060524-AB Sample Description: DK797350 **Customer Sample Number:** EMSL Sample Number: 042411596-0012 Sample Matrix: Air 20,000 Magnification used for fiber counting: Volume (L): 7211.3 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0127 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry

Estimated Particulate Loading on Filter %: Target Analytical Sensitivity (Structures/cc): 0.001 Analytical Sensitivity (Structures/cc): 0.0008

ADX

Minimum Level of analysis (amphibole):

Limit of Detection (Structures/cc): 0.0024

| | | TOTAL STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|--------------|---------|----------------------|---------------|---------------------------------|
| | Minimum | Structures D | etected | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | Primary | Total | (S/mm ²) | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Amphibole | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |
| Total All Structures | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | S | | | | | | | |
|---|----------|--|----------|----------------------|----------|-------------------------|--|--|--|--|--|--|
| (>5 microns in length with >3:1 Aspect Ratio) | | | | | | | | | | | | |
| | Minimum | Minimum Fibers Detected Density Concentration 95 % Con | | | | | | | | | | |
| | ID Level | Primary | Total | (F/mm ²) | (F/cc) | Lower Upper | | | | | | |
| Fotal Chrysotile (PCMe) | CD | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |
| Total All Structures (PCMe) | _ | 0 | 0 | < 47.09 | < 0.0024 | Not Applicable - 0.0024 | | | | | | |

Comment

lumerous gypsum fibers present.

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.



Project ID: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411596- | 0012 | | | Customer | Sample: | MFL-AM02-060524-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|-------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| J1 | J5 | None Detected | | | | | | | |
| J1 | E4 | None Detected | | | | | | | |
| J1 | A8 | None Detected | | | | | | | |
| J2 | D6 | None Detected | | | | | | | |
| J2 | G8 | None Detected | | | | | | | |



042411596 EMSL Order: TTDC42 **Customer ID: Customer PO:** 1207085 Project ID: N/A

> Phone: (703) 489-2674

N/A Fax:

06/10/2024 09:00 AM Received Date:

Analysis Date: 06/14/2024

Report Date: 06/16/2024

Attn: Chelsea Saber Tetra Tech

1560 Broadway, Suite 1400 Denver, CO, 80202

Project: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM03-060524-AB Sample Description: DK797344 **Customer Sample Number:** EMSL Sample Number: 042411596-0013 Sample Matrix: Air 20,000 Magnification used for fiber counting: Volume (L): 7062.1 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0127 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry Minimum Level of analysis (amphibole): ADX

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

0.0009

Analytical Sensitivity (Structures/cc):

Limit of Detection (Structures/cc): 0.0027

| | | TOTAL STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|--------------|---------------|-------------|---------------|---------------------------------|
| | Minimum | Structures D | etected | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | Primary | Primary Total | | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Total Amphibole | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Total All Structures | - | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | | | | | | |
|----------------------------------|----------|---|------------|----------------------|----------|-------------------------|--|--|--|--|--|
| | (>5 ı | microns in len | gth with > | 3:1 Aspect F | Ratio) | | | | | | |
| | Minimum | Minimum Fibers Detected Density Concentration | | | | | | | | | |
| | ID Level | Primary | Total | (F/mm ²) | (F/cc) | Lower Upper | | | | | |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 | | | | | |

Comment

lumerous gypsum fibers present.

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.



Project ID: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411596- | 0013 | | | Customer | Sample: | MFL-AM03-060524-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| J5 | 17 | None Detected | | | | | | | |
| J5 | G4 | None Detected | | | | | | | |
| J5 | C6 | None Detected | | | | | | | |
| J6 | G8 | None Detected | | | | | | | |
| J6 | D4 | None Detected | | | | | | | |



 EMSL Order:
 042411596

 Customer ID:
 TTDC42

 Customer PO:
 1207085

 Project ID:
 N/A

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/10/2024 09:00 AM Analysis Date: 06/15/2024

Report Date: 06/16/2024

1560 Broadway, Suite 1400 Denver, CO, 80202

Project: Maui Fires Lahaina

Attn: Chelsea Saber

Tetra Tech

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-AM04-060524-AB Sample Description: DK797342 **Customer Sample Number:** EMSL Sample Number: 042411596-0014 Sample Matrix: 20,000 Magnification used for fiber counting: Volume (L): 7129.7 Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0127 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: Minimum Level of analysis (chrysotile): CD Analyst: G.Barry

Estimated Particulate Loading on Filter %: 7
Target Analytical Sensitivity (Structures/cc): 0.001
Analytical Sensitivity (Structures/cc): 0.0009

ADX

Minimum Level of analysis (amphibole):

Limit of Detection (Structures/cc): 0.0027

| | | TOTAL STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|------------|---------|----------------------|---------------|---------------------------------|
| | Minimum | | | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | | | (S/mm ²) | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Total Amphibole | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Total All Structures | - | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | 3 | |
|---------------------------------|----------|----------------|------------|--------------|---------------|---------------------------------|
| | (>5 ı | microns in len | gth with > | 3:1 Aspect F | Ratio) | |
| | Minimum | Fibers Det | tected | Density | Concentration | 95 % Confidence Interval (F/cc) |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower Upper |
| Total Chrysotile (PCMe) | CD | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Actinolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Amosite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Anthophyllite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Crocidolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Tremolite | ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| otal Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Other Minerals | - | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |
| Total All Structures (PCMe) | - | 0 | 0 | < 47.09 | < 0.0027 | Not Applicable - 0.0027 |

Comment

Numerous gypsum fibers present.

Robyn Ray

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.



Project ID: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411596- | 0014 | | | Customer | Sample: | MFL-AM04-060524-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| K1 | 15 | None Detected | | | | | | | |
| K1 | E7 | None Detected | | | | | | | |
| K1 | В4 | None Detected | | | | | | | |
| K2 | D8 | None Detected | | | | | | | |
| K2 | G4 | None Detected | | | | | | | |



 EMSL Order:
 042411596

 Customer ID:
 TTDC42

 Customer PO:
 1207085

 Project ID:
 N/A

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/10/2024 09:00 AM

Analysis Date: 06/14/2024 **Report Date:** 06/16/2024

Attn: Chelsea Saber Tetra Tech

1560 Broadway, Suite 1400 Denver, CO, 80202

Project: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

MFL-FB01-060524-AB Sample Description: DK797346 **Customer Sample Number:** EMSL Sample Number: 042411596-0015 Sample Matrix: Air 20,000 0.0 Magnification used for fiber counting: Volume (L): Aspect ratio for fiber definition: 3:1 Area of original collection filter (mm²): 385 Minimum Length (µm): Grid Opening Area (mm²): 0.0127 ≥ 0.5 Chi² Test for Random Distribution on Filter: N/A (N/A) Grid Openings Analyzed: 10 Minimum Level of analysis (chrysotile): CD Analyst: G.Barry 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 STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|--------------|---------|-------------|---------------|---------------------------------|
| | Minimum | Structures D | etected | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | Primary | Total | (S/mm²) | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 23.54 | | |
| Total Amphibole | ADX | 0 | 0 | < 23.54 | | |
| Actinolite | ADX | 0 | 0 | < 23.54 | | |
| Amosite | ADX | 0 | 0 | < 23.54 | | |
| Anthophyllite | ADX | 0 | 0 | < 23.54 | | |
| Crocidolite | ADX | 0 | 0 | < 23.54 | | |
| Tremolite | ADX | 0 | 0 | < 23.54 | | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.54 | | |
| Other Minerals | - | 0 | 0 | < 23.54 | | |
| Total All Structures | - | 0 | 0 | < 23.54 | | |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | • | | | |
|----------------------------------|----------|-------------------|------------|--------------|---------------|-------------------------------|-------|--|
| | (>5 ı | microns in len | gth with > | 3:1 Aspect R | atio) | | | |
| | Minimum | Fibers Det | tected | Density | Concentration | 95 % Confidence Interval (F/c | | |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower | Upper | |
| Fotal Chrysotile (PCMe) | CD | 0 | 0 | < 23.54 | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.54 | | | | |
| Actinolite | ADX | 0 | 0 | < 23.54 | | | | |
| Amosite | ADX | 0 | 0 | < 23.54 | | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.54 | | | | |
| Crocidolite | ADX | 0 | 0 | < 23.54 | | | | |
| Tremolite | ADX | 0 | 0 | < 23.54 | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.54 | | | | |
| Other Minerals | - | 0 | 0 | < 23.54 | | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.54 | | | | |

Comment



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.



Project ID: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411596- | 0015 | | | Customer | Sample: | MFL-FB01-060524-AB |
|------------|-----------------|----------------|--------------------------------|------------------------------|-------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| K5 | А3 | None Detected | | | | | | | |
| K5 | C7 | None Detected | | | | | | | |
| K5 | F3 | None Detected | | | | | | | |
| K5 | 16 | None Detected | | | | | | | |
| K6 | J4 | None Detected | | | | | | | |
| K6 | E2 | None Detected | | | | | | | |
| K6 | A6 | None Detected | | | | | | | |
| K8 | C3 | None Detected | | | | | | | |
| K8 | D8 | None Detected | | | | | | | |
| K8 | G5 | None Detected | | | | | | | |



 EMSL Order:
 042411596

 Customer ID:
 TTDC42

 Customer PO:
 1207085

 Project ID:
 N/A

Phone: (703) 489-2674

Fax: N/A

Received Date: 06/10/2024 09:00 AM

Analysis Date: 06/12/2024 **Report Date:** 06/16/2024

Attn: Chelsea Saber Tetra Tech 1560 Broadway, Si

1560 Broadway, Suite 1400 Denver, CO, 80202

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: | 042411596-0016 | | 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 (mm²): | 385 |
| Minimum Length (μm): | ≥ 0.5 | | Grid Opening Area (mm²): | 0.0127 |
| Chi ² Test for Random Distribution on Filter: | N/A | (N/A) | Grid Openings Analyzed: | 10 |
| Minimum Level of analysis (chrysotile): | CD | | Analyst: | G.Barry |
| 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 STRU | JCTURES | (All Sizes) | | |
|---------------------------|----------|-----------------|---------|-------------|---------------|---------------------------------|
| | Minimum | Structures D | etected | Density | Concentration | 95 % Confidence Interval (S/cc) |
| | ID Level | Primary Total (| | (S/mm²) | (S/cc) | Lower Upper |
| | | | | | | |
| Total Chrysotile | CD | 0 | 0 | < 23.54 | | |
| Total Amphibole | ADX | 0 | 0 | < 23.54 | | |
| Actinolite | ADX | 0 | 0 | < 23.54 | | |
| Amosite | ADX | 0 | 0 | < 23.54 | | |
| Anthophyllite | ADX | 0 | 0 | < 23.54 | | |
| Crocidolite | ADX | 0 | 0 | < 23.54 | | |
| Tremolite | ADX | 0 | 0 | < 23.54 | | |
| Total Asbestos Structures | CD/ADX | 0 | 0 | < 23.54 | | |
| Other Minerals | - | 0 | 0 | < 23.54 | | |
| Total All Structures | - | 0 | 0 | < 23.54 | | |

| | | PCM EQUIVA | ALENT (P | CMe) Fibers | • | | | |
|----------------------------------|----------|-------------------|------------|--------------|---------------|-------------------------------|-------|--|
| | (>5 ı | microns in len | gth with > | 3:1 Aspect R | atio) | | | |
| | Minimum | Fibers Det | tected | Density | Concentration | 95 % Confidence Interval (F/c | | |
| | ID Level | Primary | Total | (F/mm²) | (F/cc) | Lower | Upper | |
| Fotal Chrysotile (PCMe) | CD | 0 | 0 | < 23.54 | | | | |
| Total Amphibole (PCMe) | ADX | 0 | 0 | < 23.54 | | | | |
| Actinolite | ADX | 0 | 0 | < 23.54 | | | | |
| Amosite | ADX | 0 | 0 | < 23.54 | | | | |
| Anthophyllite | ADX | 0 | 0 | < 23.54 | | | | |
| Crocidolite | ADX | 0 | 0 | < 23.54 | | | | |
| Tremolite | ADX | 0 | 0 | < 23.54 | | | | |
| Total Asbestos Structures (PCMe) | CD/ADX | 0 | 0 | < 23.54 | | | | |
| Other Minerals | - | 0 | 0 | < 23.54 | | | | |
| Total All Structures (PCMe) | - | 0 | 0 | < 23.54 | | | | |

Comment



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.



Project ID: Maui Fires Lahaina

ISO 10312 Determination of Asbestos Fibers Direct Transfer Transmission Electron Microscopy

| | EMSL S | ample ID: | 042411596- | 0016 | | | Sample: | Lab Blank | |
|------------|-----------------|----------------|--------------------------------|------------------------------|----------------|--------------|-----------------------|-----------------|--------------------|
| Grid ID | Grid Opening | Structure Type | Structure Number Primary Total | Dimensions (µm) Length Width | Level of ID | Mineral Type | Additional Mineral ID | Image Number | Structure Comments |
| D1 | J10 | None Detected | | | | | | | |
| D1 | 15 | None Detected | | | | | | | |
| D1 | E3 | None Detected | | | | | | | |
| D1 | B6 | None Detected | | | | | | | |
| D2 | H8 | None Detected | | | | | | | |
| D2 | E3 | None Detected | | | | | | | |
| D2 | A8 | None Detected | | | | | | | |
| D3 | 16 | None Detected | | | | | | | |
| D3 | F4 | None Detected | | | | | | | |
| D3 | C6 | None Detected | | | | | | | |

OrderID: 042411596

EMSL ANALYTICAL, INC.

Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

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

#042411596

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

| Customer ID: | | | | I-To is the sa Billing ID: | ame as Rep | ort-To leave the | nis section blank. Third- | party billing requires wr | itten authorization. |
|--|------------------------------------|---|-------------|-------------------------------|--------------|------------------|----------------------------------|--|----------------------|
| | -1 | | | Company N | lame: | | | | |
| Company Name: Tetra Te | | | natio | Billing Cont | act: | | | | |
| Street Address: 1560 Byon | dway STE | 1400 | Information | Street Addr | ess: | | | RED | |
| Company Name: Tetra Te Contact Name: Chelsea S Street Address: 1560 Broa City, State, Zip: Denver, CC Phone: 703-489-3 | 80207 | Country: USA | | City, State, | Zip: | | (| My E Count | ry: |
| Phone: 703-489-2 | 674 | | 1 | Phone: | | | 20211 | AMISI | 50 |
| Email(s) for Report: Chelsea.sql | ver@tetvat | ech-com | | Email(s) for | Invoice: | | -24 | UN, "50, | 1/1 |
| Project Name/No: MQUI FIVES LO | laging | Project | niori | nation | | | Purchase 12 | 070851 | 140 |
| Name/No: MUNT FIVES UM EMSL LIMS Project ID: (If applicable, EMSL will provide) | MATTA | | | State where | ed:HI | State | | ust select project locati ble) Residentia | al (Non Taxable) |
| Sampled By Name: Shaiha Eps | itein | Sampled By Signature: | 2 | | | | | No. of Samples in Shipment | |
| | | Turn-Arour | nd-Ti | | Г | _ | | | Пались |
| 3 Hour 4-4.5 Hour AHERA ONLY | 6 Hour TEM Air 3-6 Hour, please | 24 Hour 32 Hour e call ahead to schedule, 32 Hour TAT ava | ilable (| 48 H | L | 72 Hou | | V 1 Week | 2 Week |
| PCM Air | | Test \$ TEM | - Air | | | | TEM - Settled D | Oust | |
| NIOSH 7400 | | AHERA 40 CFR, Pa | rt 760 | 3 | | | Microvac - ASTI | M D5755 | |
| NIOSH 7400 w/ 8hr. TWA PLM - Bulk (report | ing limit) | NIOSH 7402 EPA Level II | | | | | Wipe - ASTM De Qualitative via F | | |
| PLM EPA 600/R-93/116 (<1%) | | ▼ ISO 10312* | | | | i | = | Prop Mount Prep | |
| PLM EPA NOB (<1%) | | TEM | - Bul | <u>lk</u> | | | Call Back V | Jarmiaulita (raparti | a a limit* |
| POINT COUNT 400 (<0.25%) 1,0 | 00 (<0.1%) | TEM EPA NOB NYS NOB 198.4 (No | n-Fri | iable-NY) | | 1 | _ | Vermiculite (reporting) R-93/116 with milling | |
| POINT COUNT w/ GRAVIMETE | RIC | TEM EPA 600/R-93/ | 116 | w Milling Pr | rep (0.1%) | | | R-93/116 with milling | |
| 400 (<0.25%) | 00 (<0.1%) | Other Test | (nles | see enerifi | d) | | | R-93/116 with milling via Filtration Prep | prep (<0.1%) |
| NYS 198.1 (Friable - NY) | | Other rest | (pice | ise specify | ц | | = | via Drop Mount Pre | р |
| NYS 198.6 NOB (Non-Friable - | NY) | | | | | | | | |
| NYS 198.8 (Vermiculite SM-V) | | *Please call with y | our p | roject-speci | fic requirem | ents. | | | |
| Positive Stop - Clearly Identif | ied Homogeneous | Areas (HA) | T | Filter Pore | Size (Air | Samples) | 0.8um | 0.45um | |
| Sample Number | Sample | Location / Description | | | Volume | , Area or Ho | omogeneous Area | Date / Time (Air Monito | |
| MFL-AMUI-060324- | AB DK | 197373 | | | 7,195 | 5,800 | | 06/03/24 | 1105 |
| MFL- AMOZ-060329- | AB DK | 797353 | | | 7,13 | 39.06 | 3 | 06/03/24 | 1128 |
| MFL-AM03-060324- | AB DK | 797360 | | | 7.4 | 86.66 | 0 | 06/03/24 | 1310 |
| MFL-AMO4-060324 | 1110 | 797340 | | | 7,14 | 5 2 | 00 | 06/03/24 | 1330 |
| MFL-FB01-060324- | AB DK | 797341 | | | | 0 | | 06/03/24 | 1200 |
| MFL-AMUI-060424- | AB DK | (791375 | | | 7,1 | 60.8 | 10 | 06/04/24 | 1050 |
| MFL-AMO2-060429- | AB PK | 797355 | | | 7,10 | 12.57 | 10 | 06/04/29 | 1120 |
| MFL-AM03-060424 | 12 | 797369 | | | _ | 82.34 | | 06/09/29 | 1306 |
| Sp | | or Regulatory Requirements (Samp | | | | | 1 22 2 | | (15) |
| Method of Shipment: FEDEX | | | | Sample Co | ndition Upo | n Receipt: | | | |
| Relinquished by: TED BROWN | | | 00 | Received t | Dy C | , | FedEx | Date/Time 6/10 | 24 9AM |
| Relinquished by: | | Date/Time: | | Received to | y: | | , | Date/Time | |

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

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



Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

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

PHONE: (800) 220-3675

EMAIL: CinnAsblab@EMSL.com

6 4 2 4 1 1 5 9 6

onal Pages of the Chain of Custody are only necessary If needed for additional sample Information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.) Date / Time Sampled Sample Number Sample Location / Description Volume, Area or Homogeneous Area (Air Monitoring Only) 7,175.376 DK797337 MFL-AM09-060929-AB DK 797364 0 06/09/24 1200 MFE-FB01-060924-A13 DK797357 7,173.904 06/05/24 054 MFL-AMOI-060529-AB MFL-AMUZ 060529-AB DK797350 06/05/24 1123 7,211.261 MFL- AM03-060529-AB 7,067 118 06/05/24 1302 DK7973 44 7,129.710 MFL- AMM-060524-AB DK 797342 06/05/74 1326 06/05/24 1200 MFL-FBOI-060524-AB DK797346 Method of Shipment Sample Condition Upon Receipt FEDEX Relinquished by: TED BROWN Received by 06/06/24 1100 Fldtx 4/10/24 9M Received by

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

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

Stage 1 Data Verification Checklist – Asbestos

HDOH CAB - Ambient Community Air Sampling - Lahaina

Task Order No. 23141

Reviewed by:

Kierra Johnson 06/17/2024 and Shanna Vasser 06/18/2024

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

Collection date(s): 06/03/2024 - 06/05/2024

Report No: 42411596

| ٧ | 1. | Chain of custody | (CoC |) documentation is preser | ıt. |
|----------|----|------------------|------|---------------------------|-----|
| <u> </u> | | | , | , accomment is presen | |

- $\underline{\mathbf{v}}$ 2. Sample receipt condition information is present and acceptable.
- $\underline{\mathbf{v}}$ 3. Laboratory conducting the analysis is identified.
- \underline{V} 4. All samples submitted to the laboratory are accounted for.
- \underline{V} 5. Requested analytical methods were performed.
- \underline{V} 6. Analysis dates are provided.
- $\underline{\mathbf{v}}$ 7. Analyte results are provided.
- NA 8. Result qualifiers and definitions are provided.
- $\underline{\mathbf{v}}$ 9. Result units are reported.
- \underline{V} 10. Requested reporting limits are present.
- NA 11. Method detection limits are present.
- \underline{V} 12. Sample collection date and time are present.
- \underline{V} 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

June 19, 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 06/10/24 15:50.

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.

ERG

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: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

ANALYTICAL REPORT FOR SAMPLES

| <u>SampleName</u> | <u>LabNumber</u> | <u>Matrix</u> | <u>Sampled</u> | Received |
|--------------------|------------------|---------------|----------------|----------------|
| MFL-AM01-053024-HM | 4061041-01 | Air | 05/30/24 23:59 | 06/10/24 15:50 |
| MFL-AM02-053024-HM | 4061041-02 | Air | 05/30/24 23:59 | 06/10/24 15:50 |
| MFL-AM03-053024-HM | 4061041-03 | Air | 05/30/24 23:59 | 06/10/24 15:50 |
| MFL-AM04-053024-HM | 4061041-04 | Air | 05/30/24 23:59 | 06/10/24 15:50 |
| MFL-AM01-053124-HM | 4061041-05 | Air | 05/31/24 23:59 | 06/10/24 15:50 |
| MFL-AM02-053124-HM | 4061041-06 | Air | 05/31/24 23:59 | 06/10/24 15:50 |
| MFL-AM03-053124-HM | 4061041-07 | Air | 05/31/24 23:59 | 06/10/24 15:50 |
| MFL-AM04-053124-HM | 4061041-08 | Air | 05/31/24 23:59 | 06/10/24 15:50 |
| MFL-FB01-053124-HM | 4061041-09 | Air | 05/31/24 00:00 | 06/10/24 15:50 |
| MFL-AM01-060124-HM | 4061041-10 | Air | 06/01/24 23:59 | 06/10/24 15:50 |
| MFL-AM02-060124-HM | 4061041-11 | Air | 06/01/24 23:59 | 06/10/24 15:50 |
| MFL-AM03-060124-HM | 4061041-12 | Air | 06/01/24 23:59 | 06/10/24 15:50 |
| MFL-AM04-060124-HM | 4061041-13 | Air | 06/01/24 23:59 | 06/10/24 15:50 |
| MFL-AM01-060224-HM | 4061041-14 | Air | 06/02/24 23:59 | 06/10/24 15:50 |
| MFL-AM02-060224-HM | 4061041-15 | Air | 06/02/24 23:59 | 06/10/24 15:50 |
| MFL-AM03-060224-HM | 4061041-16 | Air | 06/02/24 23:59 | 06/10/24 15:50 |
| MFL-AM04-060224-HM | 4061041-17 | Air | 06/02/24 23:59 | 06/10/24 15:50 |
| MFL-FB01-060224-HM | 4061041-18 | Air | 06/02/24 00:00 | 06/10/24 15:50 |
| MFL-AM01-060324-HM | 4061041-19 | Air | 06/03/24 23:59 | 06/10/24 15:50 |
| MFL-AM02-060324-HM | 4061041-20 | Air | 06/03/24 23:59 | 06/10/24 15:50 |
| MFL-AM03-060324-HM | 4061041-21 | Air | 06/03/24 23:59 | 06/10/24 15:50 |
| | | | | |

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.



Air Air

Air

Air

Air

Air

Air

Air Air

Air

Tetra Tech, Inc.

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

MFL-FB01-060424-HM

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

MFL-AM04-060324-HM 4061041-22 MFL-AM01-060424-HM 4061041-23 MFL-AM02-060424-HM 4061041-24

4061041-27

MFL-AM03-060424-HM 4061041-25 MFL-AM04-060424-HM 4061041-26

MFL-AM01-060524-HM 4061041-28 MFL-AM02-060524-HM 4061041-29

MFL-AM03-060524-HM 4061041-30 MFL-AM04-060524-HM 4061041-31

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

06/05/24 23:59

| AQS SITE CODE. | |
|----------------|----------------|
| SITE CODE: | Lahaina fires |
| 06/03/24 23:59 | 06/10/24 15:50 |
| 06/04/24 23:59 | 06/10/24 15:50 |
| 06/04/24 23:59 | 06/10/24 15:50 |
| 06/04/24 23:59 | 06/10/24 15:50 |
| 06/04/24 23:59 | 06/10/24 15:50 |
| 06/04/24 00:00 | 06/10/24 15:50 |
| 06/05/24 23:59 | 06/10/24 15:50 |
| 06/05/24 23:59 | 06/10/24 15:50 |
| 06/05/24 23:59 | 06/10/24 15:50 |
| | |

06/10/24 15:50



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM01-053024-HM **Lab ID:** 4061041-01

Sample Volume: 1848.352 m³

Received: 06/10/24 15:50

Sampled: 05/30/24 23:59

Filter ID: Analysis Date: 06/13/24 00:41

Comments: Q8505811 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.423 | SL | 0.0340 |
| Arsenic | 7440-38-2 | 8.58 | | 0.00825 |
| Barium | 7440-39-3 | 9.96 | QB-01 | 0.942 |
| Beryllium | 7440-41-7 | 0.0232 | | 0.00282 |
| Cadmium | 7440-43-9 | 0.0351 | U | 0.0652 |
| Chromium | 7440-47-3 | 5.93 | | 1.95 |
| Cobalt | 7440-48-4 | 0.909 | | 0.0384 |
| Copper | 7440-50-8 | 220 | | 2.32 |
| Lead | 7439-92-1 | 3.42 | | 0.188 |
| Manganese | 7439-96-5 | 30.2 | | 1.66 |
| Molybdenum | 7439-98-7 | 10.6 | | 0.316 |
| Nickel | 7440-02-0 | 2.84 | | 0.574 |
| Selenium | 7782-49-2 | 0.292 | | 0.00789 |
| Thallium | 7440-28-0 | 0.00320 | | 5.18E-4 |
| Vanadium | 7440-62-2 | 3.05 | | 0.0466 |
| Zinc | 7440-66-6 | 67.2 | U | 67.6 |



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM02-053024-HM **Lab ID:** 4061041-02

Sample Volume: 1976.138 m³

Sampled: 05/30/24 23:59 **Received:** 06/10/24 15:50

Filter ID: Analysis Date: 06/13/24 00:57

Comments: Q8505813 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.0922 | SL | 0.0318 |
| Arsenic | 7440-38-2 | 0.319 | | 0.00771 |
| Barium | 7440-39-3 | 5.21 | QB-01 | 0.881 |
| Beryllium | 7440-41-7 | 0.0172 | | 0.00263 |
| Cadmium | 7440-43-9 | 0.0107 | U | 0.0610 |
| Chromium | 7440-47-3 | 2.96 | | 1.82 |
| Cobalt | 7440-48-4 | 0.572 | | 0.0359 |
| Copper | 7440-50-8 | 46.9 | | 2.17 |
| Lead | 7439-92-1 | 0.701 | | 0.176 |
| Manganese | 7439-96-5 | 16.4 | | 1.56 |
| Molybdenum | 7439-98-7 | 2.28 | | 0.296 |
| Nickel | 7440-02-0 | 2.28 | | 0.537 |
| Selenium | 7782-49-2 | 0.255 | | 0.00738 |
| Thallium | 7440-28-0 | 0.00179 | | 4.85E-4 |
| Vanadium | 7440-62-2 | 1.95 | | 0.0436 |
| Zinc | 7440-66-6 | 38.3 | U | 63.2 |



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM03-053024-HM **Lab ID:** 4061041-03

Sample Volume: 2024.081 m³

Sampled: 05/30/24 23:59 **Received:** 06/10/24 15:50

Filter ID: Analysis Date: 06/13/24 01:13

Comments: Q8505814 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.0829 | SL | 0.0310 |
| Arsenic | 7440-38-2 | 0.390 | | 0.00753 |
| Barium | 7440-39-3 | 5.94 | QB-01 | 0.860 |
| Beryllium | 7440-41-7 | 0.0714 | | 0.00257 |
| Cadmium | 7440-43-9 | 0.0119 | U | 0.0596 |
| Chromium | 7440-47-3 | 3.59 | | 1.78 |
| Cobalt | 7440-48-4 | 0.890 | | 0.0350 |
| Copper | 7440-50-8 | 36.8 | | 2.11 |
| Lead | 7439-92-1 | 0.773 | | 0.172 |
| Manganese | 7439-96-5 | 22.1 | | 1.52 |
| Molybdenum | 7439-98-7 | 1.98 | | 0.289 |
| Nickel | 7440-02-0 | 2.20 | | 0.524 |
| Selenium | 7782-49-2 | 0.302 | | 0.00720 |
| Thallium | 7440-28-0 | 0.00219 | | 4.73E-4 |
| Vanadium | 7440-62-2 | 2.23 | | 0.0425 |
| Zinc | 7440-66-6 | 35.0 | U | 61.7 |



Tetra Tech, Inc.

Description:

Comments:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

MFL-AM04-053024-HM

Matrix: Air

Filter ID: Q8505815 - Received in good condition

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE:

Sampled: 05/30/24 23:59 Received: 06/10/24 15:50

Lahaina fires

Analysis Date: 06/13/24 01:29

| Inorganics by | Compendium | Method | 10-3.5 |
|---------------|------------|--------|--------|
| | | | |

4061041-04

Sample Volume: 1867.532 m³

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.133 | SL | 0.0336 |
| Arsenic | 7440-38-2 | 1.84 | | 0.00816 |
| Barium | 7440-39-3 | 6.04 | QB-01 | 0.932 |
| Beryllium | 7440-41-7 | 0.0249 | | 0.00279 |
| Cadmium | 7440-43-9 | 0.0541 | U | 0.0646 |
| Chromium | 7440-47-3 | 3.77 | | 1.93 |
| Cobalt | 7440-48-4 | 0.705 | | 0.0380 |
| Copper | 7440-50-8 | 26.6 | | 2.29 |
| Lead | 7439-92-1 | 2.11 | | 0.186 |
| Manganese | 7439-96-5 | 23.6 | | 1.65 |
| Molybdenum | 7439-98-7 | 1.34 | | 0.313 |
| Nickel | 7440-02-0 | 2.03 | | 0.568 |
| Selenium | 7782-49-2 | 0.276 | | 0.00781 |
| Thallium | 7440-28-0 | 0.00216 | | 5.13E-4 |
| Vanadium | 7440-62-2 | 2.12 | | 0.0461 |
| Zinc | 7440-66-6 | 42.7 | U | 66.9 |
| | | | | |

Lab ID:



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM01-053124-HM **Lab ID:** 4061041-05

Sampled: 05/31/24 23:59

Sample Volume: 1902.618 m³ **Received:** 06/10/24 15:50

Filter ID: Analysis Date: 06/12/24 21:53

Comments: Q8505816 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|------------------|-----------------------|------------|
| <u>Analyte</u> | CAS Number | <u>ng/m³ Air</u> | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.389 | SL | 0.0330 |
| Barium | 7440-39-3 | 13.8 | QB-01 | 0.915 |
| Beryllium | 7440-41-7 | 0.0301 | | 0.00274 |
| Cadmium | 7440-43-9 | 0.0481 | U | 0.0634 |
| Chromium | 7440-47-3 | 8.71 | | 1.89 |
| Cobalt | 7440-48-4 | 1.43 | | 0.0373 |
| Copper | 7440-50-8 | 239 | A-01, PS-01, QM-4X | 2.25 |
| Lead | 7439-92-1 | 2.08 | - | 0.183 |
| Manganese | 7439-96-5 | 43.7 | A-01, PS-01 | 1.62 |
| Molybdenum | 7439-98-7 | 10.3 | | 0.307 |
| Nickel | 7440-02-0 | 3.53 | | 0.558 |
| Selenium | 7782-49-2 | 0.281 | SRD-01 | 0.00766 |
| Thallium | 7440-28-0 | 0.00341 | | 5.04E-4 |
| Vanadium | 7440-62-2 | 4.76 | | 0.0452 |
| Zinc | 7440-66-6 | 57.9 | U | 65.7 |



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Lab ID: 4061041-05RE1

Sampled: 05/31/24 23:59

Sample Volume: 1902.618 m³

Received: 06/10/24 15:50

Filter ID:

Analysis Date: 06/13/24 18:41

Comments: Q8505816 - Received in good condition

MFL-AM01-053124-HM

Inorganics by Compendium Method IO-3.5

Results

<u>MDL</u>

Analyte CAS Number 7440-38-2

ng/m³ Air 12.0 <u>Flag</u>

ng/m³ Air 0.0160

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.



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM02-053124-HM **Lab ID:** 4061041-06

Sample Volume: 2047.518 m³

Sampled: 05/31/24 23:59 **Received:** 06/10/24 15:50

· ID· Analysis Date: 06/13/24

Filter ID:

Analysis Date: 06/13/24 01:44

Comments: Q8505817 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.100 | SL | 0.0307 |
| Arsenic | 7440-38-2 | 0.389 | | 0.00745 |
| Barium | 7440-39-3 | 5.34 | QB-01 | 0.850 |
| Beryllium | 7440-41-7 | 0.0176 | | 0.00254 |
| Cadmium | 7440-43-9 | 0.0123 | U | 0.0589 |
| Chromium | 7440-47-3 | 2.70 | | 1.76 |
| Cobalt | 7440-48-4 | 0.570 | | 0.0346 |
| Copper | 7440-50-8 | 57.9 | | 2.09 |
| Lead | 7439-92-1 | 0.940 | | 0.170 |
| Manganese | 7439-96-5 | 16.8 | | 1.50 |
| Molybdenum | 7439-98-7 | 2.61 | | 0.285 |
| Nickel | 7440-02-0 | 1.82 | | 0.518 |
| Selenium | 7782-49-2 | 0.193 | | 0.00712 |
| Thallium | 7440-28-0 | 0.00146 | | 4.68E-4 |
| Vanadium | 7440-62-2 | 1.75 | | 0.0420 |
| Zinc | 7440-66-6 | 37.8 | U | 61.0 |
| | | | | |



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM03-053124-HM **Lab ID:** 4061041-07

Sample Volume: 2058.145 m³

Sampled: 05/31/24 23:59 **Received:** 06/10/24 15:50

Filter ID: Analysis Date: 06/13/24 01:59

Comments: Q8505818 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.0696 | SL | 0.0305 |
| Arsenic | 7440-38-2 | 0.395 | | 0.00741 |
| Barium | 7440-39-3 | 5.43 | QB-01 | 0.846 |
| Beryllium | 7440-41-7 | 0.0670 | | 0.00253 |
| Cadmium | 7440-43-9 | 0.0130 | U | 0.0586 |
| Chromium | 7440-47-3 | 4.08 | | 1.75 |
| Cobalt | 7440-48-4 | 0.923 | | 0.0345 |
| Copper | 7440-50-8 | 36.5 | | 2.08 |
| Lead | 7439-92-1 | 0.753 | | 0.169 |
| Manganese | 7439-96-5 | 23.0 | | 1.49 |
| Molybdenum | 7439-98-7 | 1.89 | | 0.284 |
| Nickel | 7440-02-0 | 2.26 | | 0.515 |
| Selenium | 7782-49-2 | 0.254 | | 0.00708 |
| Thallium | 7440-28-0 | 0.00187 | | 4.66E-4 |
| Vanadium | 7440-62-2 | 2.02 | | 0.0418 |
| Zinc | 7440-66-6 | 34.7 | U | 60.7 |



Tetra Tech, Inc.

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

Description:

Matrix:

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM04-053124-HM **Lab ID:** 4061041-08

Sample Volume: 1870.806 m³

Sampled: 05/31/24 23:59 **Received:** 06/10/24 15:50

Filter ID: Analysis Date: 06/13/24 02:16

Comments: Q8505821 - Received in good condition

| | | Results | | <u>MDL</u> |
|----------------|-------------------|-----------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.121 | SL | 0.0336 |
| Arsenic | 7440-38-2 | 1.68 | | 0.00815 |
| Barium | 7440-39-3 | 5.31 | QB-01 | 0.931 |
| Beryllium | 7440-41-7 | 0.0198 | | 0.00278 |
| Cadmium | 7440-43-9 | 0.0789 | | 0.0644 |
| Chromium | 7440-47-3 | 3.53 | | 1.92 |
| Cobalt | 7440-48-4 | 0.614 | | 0.0379 |
| Copper | 7440-50-8 | 29.1 | | 2.29 |
| Lead | 7439-92-1 | 1.30 | | 0.186 |
| Manganese | 7439-96-5 | 19.6 | | 1.64 |
| Molybdenum | 7439-98-7 | 1.47 | | 0.312 |
| Nickel | 7440-02-0 | 1.76 | | 0.567 |
| Selenium | 7782-49-2 | 0.187 | | 0.00779 |
| Thallium | 7440-28-0 | 0.00157 | | 5.12E-4 |
| Vanadium | 7440-62-2 | 1.65 | | 0.0460 |
| Zinc | 7440-66-6 | 39.6 | U | 66.8 |



Tetra Tech, Inc.

Description:

Comments:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

MFL-FB01-053124-HM

Matrix: Air

Q8505829 - Received in good condition

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Sampled: 05/31/24 00:00

Received: 06/10/24 15:50 **Analysis Date:** 06/13/24 02:32

Inorganics by Compendium Method IO-3.5

4061041-09

Sample Volume: 1902.618 m³

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.0172 | SL, U | 0.0330 |
| Arsenic | 7440-38-2 | 0.00694 | U | 0.00801 |
| Barium | 7440-39-3 | 0.861 | QB-01, U | 0.915 |
| Beryllium | 7440-41-7 | 7.53E-4 | U | 0.00274 |
| Cadmium | 7440-43-9 | 4.95E-4 | U | 0.0634 |
| Chromium | 7440-47-3 | 0.824 | U | 1.89 |
| Cobalt | 7440-48-4 | 0.00918 | U | 0.0373 |
| Copper | 7440-50-8 | 0.401 | U | 2.25 |
| Lead | 7439-92-1 | 0.0242 | U | 0.183 |
| Manganese | 7439-96-5 | 0.145 | U | 1.62 |
| Molybdenum | 7439-98-7 | 0.137 | U | 0.307 |
| Nickel | 7440-02-0 | 0.414 | U | 0.558 |
| Selenium | 7782-49-2 | 0.00509 | U | 0.00766 |
| Thallium | 7440-28-0 | 1.53E-4 | U | 5.04E-4 |
| Vanadium | 7440-62-2 | 0.0157 | U | 0.0452 |
| Zinc | 7440-66-6 | 19.2 | U | 65.7 |
| | | | | |

Lab ID:

Filter ID:



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

Air

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

MFL-AM01-060124-HM

Lab ID:

4061041-10

Sample Volume: 1875.325 m³

Filter ID:

Lahaina fires

FILE #: 4205.00.003.001

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE:

REPORTED: 06/19/24 13:12

Sampled: 06/01/24 23:59

Received: 06/10/24 15:50 **Analysis Date:** 06/13/24 02:46

Comments: Q8505824 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.121 | SL | 0.0335 |
| Arsenic | 7440-38-2 | 2.95 | | 0.00813 |
| Barium | 7440-39-3 | 7.82 | QB-01 | 0.928 |
| Beryllium | 7440-41-7 | 0.0296 | | 0.00278 |
| Cadmium | 7440-43-9 | 0.0236 | U | 0.0643 |
| Chromium | 7440-47-3 | 6.16 | | 1.92 |
| Cobalt | 7440-48-4 | 1.45 | | 0.0378 |
| Copper | 7440-50-8 | 213 | | 2.28 |
| Lead | 7439-92-1 | 0.964 | | 0.186 |
| Manganese | 7439-96-5 | 38.2 | | 1.64 |
| Molybdenum | 7439-98-7 | 10.7 | | 0.311 |
| Nickel | 7440-02-0 | 3.94 | | 0.566 |
| Selenium | 7782-49-2 | 0.267 | | 0.00777 |
| Thallium | 7440-28-0 | 0.00230 | | 5.11E-4 |
| Vanadium | 7440-62-2 | 3.85 | | 0.0459 |
| Zinc | 7440-66-6 | 30.1 | U | 66.6 |



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

MFL-AM02-060124-HM

Lab ID: 4061041-11

Sample Volume: 2119.25 m³

Filter ID:

FILE #: 4205.00.003.001

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE:

REPORTED: 06/19/24 13:12

Lahaina fires

Sampled: 06/01/24 23:59 Received: 06/10/24 15:50

Analysis Date: 06/13/24 03:03

Comments: Q8505825 - Received in good condition

| <u>Analyte</u> | <u>Results</u> | | | <u>MDL</u> | |
|----------------|-------------------|-----------|-------------|------------|--|
| | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air | |
| Antimony | 7440-36-0 | 0.104 | SL | 0.0296 | |
| Arsenic | 7440-38-2 | 0.507 | | 0.00719 | |
| Barium | 7440-39-3 | 5.61 | QB-01 | 0.821 | |
| Beryllium | 7440-41-7 | 0.0185 | | 0.00246 | |
| Cadmium | 7440-43-9 | 0.0198 | U | 0.0569 | |
| Chromium | 7440-47-3 | 3.47 | | 1.70 | |
| Cobalt | 7440-48-4 | 0.732 | | 0.0335 | |
| Copper | 7440-50-8 | 47.6 | | 2.02 | |
| Lead | 7439-92-1 | 1.10 | | 0.164 | |
| Manganese | 7439-96-5 | 19.0 | | 1.45 | |
| Molybdenum | 7439-98-7 | 2.03 | | 0.276 | |
| Nickel | 7440-02-0 | 2.16 | | 0.501 | |
| Selenium | 7782-49-2 | 0.191 | | 0.00688 | |
| Thallium | 7440-28-0 | 0.00147 | | 4.52E-4 | |
| Vanadium | 7440-62-2 | 2.12 | | 0.0406 | |
| Zinc | 7440-66-6 | 24.2 | U | 59.0 | |



Tetra Tech, Inc.

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

Matrix:

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Description: MFL-AM03-060124-HM **Lab ID:** 4061041-12

Sampled: 06/01/24 23:59

Sample Volume: 1861.956 m³ **Received:** 06/10/24 15:50

Filter ID: Analysis Date: 06/12/24 18:06

Comments: Q8505831 - MS/MSD - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.0562 | SL | 0.0337 |
| Arsenic | 7440-38-2 | 0.187 | | 0.00819 |
| Barium | 7440-39-3 | 3.23 | QB-01 | 0.935 |
| Beryllium | 7440-41-7 | 0.0321 | | 0.00280 |
| Cadmium | 7440-43-9 | 0.00851 | U | 0.0647 |
| Chromium | 7440-47-3 | 2.50 | | 1.93 |
| Cobalt | 7440-48-4 | 0.436 | | 0.0381 |
| Copper | 7440-50-8 | 41.4 | | 2.30 |
| Lead | 7439-92-1 | 0.402 | | 0.187 |
| Manganese | 7439-96-5 | 10.7 | | 1.65 |
| Molybdenum | 7439-98-7 | 2.19 | | 0.314 |
| Nickel | 7440-02-0 | 1.31 | | 0.570 |
| Selenium | 7782-49-2 | 0.172 | | 0.00783 |
| Thallium | 7440-28-0 | 0.00138 | | 5.15E-4 |
| Vanadium | 7440-62-2 | 1.00 | | 0.0462 |
| Zinc | 7440-66-6 | 27.4 | U | 67.1 |



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM04-060124-HM Lab ID: 4061041-13

Sample Volume: 1942.608 m³

Sampled: 06/01/24 23:59 Received: 06/10/24 15:50

Filter ID:

Analysis Date: 06/13/24 04:15

Comments: Q8505832 - Received in good condition

| <u>Analyte</u> | <u>Results</u> | | | <u>MDL</u> | |
|----------------|-------------------|-----------|-------------|------------|--|
| | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air | |
| Antimony | 7440-36-0 | 0.107 | SL | 0.0323 | |
| Arsenic | 7440-38-2 | 0.999 | | 0.00785 | |
| Barium | 7440-39-3 | 4.22 | QB-01 | 0.896 | |
| Beryllium | 7440-41-7 | 0.0124 | | 0.00268 | |
| Cadmium | 7440-43-9 | 0.0144 | U | 0.0621 | |
| Chromium | 7440-47-3 | 2.47 | | 1.85 | |
| Cobalt | 7440-48-4 | 0.384 | | 0.0365 | |
| Copper | 7440-50-8 | 24.1 | | 2.20 | |
| Lead | 7439-92-1 | 0.927 | | 0.179 | |
| Manganese | 7439-96-5 | 12.9 | | 1.58 | |
| Molybdenum | 7439-98-7 | 1.40 | | 0.301 | |
| Nickel | 7440-02-0 | 1.24 | | 0.546 | |
| Selenium | 7782-49-2 | 0.157 | | 0.00750 | |
| Thallium | 7440-28-0 | 0.00135 | | 4.93E-4 | |
| Vanadium | 7440-62-2 | 1.03 | | 0.0443 | |
| Zinc | 7440-66-6 | 31.0 | U | 64.3 | |



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM01-060224-HM **Lab ID:** 4061041-14

Sample Volume: 1976.398 m³

Sampled: 06/02/24 23:59 **Received:** 06/10/24 15:50

Filter ID: Analysis Date: 06/13/24 04:30

Comments: Q8505834 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.0945 | SL | 0.0318 |
| Arsenic | 7440-38-2 | 2.43 | | 0.00771 |
| Barium | 7440-39-3 | 14.9 | QB-01 | 0.881 |
| Beryllium | 7440-41-7 | 0.0626 | | 0.00263 |
| Cadmium | 7440-43-9 | 0.101 | | 0.0610 |
| Chromium | 7440-47-3 | 11.6 | | 1.82 |
| Cobalt | 7440-48-4 | 2.99 | | 0.0359 |
| Copper | 7440-50-8 | 190 | | 2.17 |
| Lead | 7439-92-1 | 1.11 | | 0.176 |
| Manganese | 7439-96-5 | 73.6 | | 1.56 |
| Molybdenum | 7439-98-7 | 7.68 | | 0.296 |
| Nickel | 7440-02-0 | 9.29 | | 0.537 |
| Selenium | 7782-49-2 | 0.417 | | 0.00738 |
| Thallium | 7440-28-0 | 0.00404 | | 4.85E-4 |
| Vanadium | 7440-62-2 | 7.57 | | 0.0435 |
| Zinc | 7440-66-6 | 35.0 | U | 63.2 |



Tetra Tech, Inc.

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

Description:

Matrix:

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM02-060224-HM **Lab ID:** 4061041-15

Sample Volume: 1951.511 m³

Sampled: 06/02/24 23:59 **Received:** 06/10/24 15:50

Filter ID: Analysis Date: 06/13/24 04:50

Comments: Q8505835 - Received in good condition

| <u>Results</u> | | | <u>MDL</u> | |
|-------------------|---|---|--|--|
| CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air | |
| 7440-36-0 | 0.321 | SL | 0.0322 | |
| 7440-38-2 | 1.62 | | 0.00781 | |
| 7440-39-3 | 9.66 | QB-01 | 0.892 | |
| 7440-41-7 | 0.0240 | | 0.00267 | |
| 7440-43-9 | 0.0243 | U | 0.0618 | |
| 7440-47-3 | 5.08 | | 1.84 | |
| 7440-48-4 | 0.897 | | 0.0363 | |
| 7440-50-8 | 59.3 | | 2.19 | |
| 7439-92-1 | 2.04 | | 0.178 | |
| 7439-96-5 | 24.1 | | 1.58 | |
| 7439-98-7 | 2.38 | | 0.299 | |
| 7440-02-0 | 3.02 | | 0.544 | |
| 7782-49-2 | 0.238 | | 0.00747 | |
| 7440-28-0 | 0.00266 | | 4.91E-4 | |
| 7440-62-2 | 2.64 | | 0.0441 | |
| 7440-66-6 | 38.0 | U | 64.0 | |
| | 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-96-5 7439-98-7 7440-02-0 7782-49-2 7440-28-0 7440-62-2 | CAS Number nq/m³ Air 7440-36-0 0.321 7440-38-2 1.62 7440-39-3 9.66 7440-41-7 0.0240 7440-43-9 0.0243 7440-47-3 5.08 7440-48-4 0.897 7440-50-8 59.3 7439-92-1 2.04 7439-96-5 24.1 7439-98-7 2.38 7440-02-0 3.02 7782-49-2 0.238 7440-28-0 0.00266 7440-62-2 2.64 | CAS Number ng/m³ Air Flag 7440-36-0 0.321 SL 7440-38-2 1.62 VA 7440-39-3 9.66 QB-01 7440-41-7 0.0240 VA 7440-43-9 0.0243 UA 7440-47-3 5.08 VA 7440-48-4 0.897 VA 7440-50-8 59.3 VA 7439-92-1 2.04 VA 7439-98-7 2.38 VA 7440-02-0 3.02 VA 7782-49-2 0.238 VA 7440-28-0 0.00266 VA 7440-62-2 2.64 VA | |



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Lab ID: 4061041-16

Sample Volume: 2036.79 m³

Received: 06/10/24 15:50

Sampled: 06/02/24 23:59

Filter ID: **Analysis Date:** 06/13/24 05:06

Comments: Q8505836 - Received in good condition

MFL-AM03-060224-HM

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.0608 | SL | 0.0308 |
| Arsenic | 7440-38-2 | 0.229 | | 0.00748 |
| Barium | 7440-39-3 | 3.18 | QB-01 | 0.855 |
| Beryllium | 7440-41-7 | 0.0225 | | 0.00256 |
| Cadmium | 7440-43-9 | 0.0107 | U | 0.0592 |
| Chromium | 7440-47-3 | 4.32 | | 1.77 |
| Cobalt | 7440-48-4 | 0.420 | | 0.0348 |
| Copper | 7440-50-8 | 36.4 | | 2.10 |
| Lead | 7439-92-1 | 0.476 | | 0.171 |
| Manganese | 7439-96-5 | 10.4 | | 1.51 |
| Molybdenum | 7439-98-7 | 2.21 | | 0.287 |
| Nickel | 7440-02-0 | 1.78 | | 0.521 |
| Selenium | 7782-49-2 | 0.182 | | 0.00716 |
| Thallium | 7440-28-0 | 0.00193 | | 4.70E-4 |
| Vanadium | 7440-62-2 | 1.03 | | 0.0423 |
| Zinc | 7440-66-6 | 19.3 | U | 61.3 |



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM04-060224-HM Lab ID: 4061041-17

Sample Volume: 1729.297 m³

Sampled: 06/02/24 23:59 Received: 06/10/24 15:50

Filter ID: **Analysis Date:** 06/13/24 05:20

Comments: Q8505837 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.122 | SL | 0.0363 |
| Arsenic | 7440-38-2 | 1.51 | | 0.00882 |
| Barium | 7440-39-3 | 6.12 | QB-01 | 1.01 |
| Beryllium | 7440-41-7 | 0.0298 | | 0.00301 |
| Cadmium | 7440-43-9 | 0.0337 | U | 0.0697 |
| Chromium | 7440-47-3 | 4.31 | | 2.08 |
| Cobalt | 7440-48-4 | 0.753 | | 0.0410 |
| Copper | 7440-50-8 | 25.9 | | 2.47 |
| Lead | 7439-92-1 | 1.50 | | 0.201 |
| Manganese | 7439-96-5 | 25.3 | | 1.78 |
| Molybdenum | 7439-98-7 | 1.36 | | 0.338 |
| Nickel | 7440-02-0 | 2.36 | | 0.613 |
| Selenium | 7782-49-2 | 0.253 | | 0.00843 |
| Thallium | 7440-28-0 | 0.00244 | | 5.54E-4 |
| Vanadium | 7440-62-2 | 2.00 | | 0.0498 |
| Zinc | 7440-66-6 | 28.0 | U | 72.3 |



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-FB01-060224-HM **Lab ID:** 4061041-18

Sample Volume: 1976.398 m³

Sampled: 06/02/24 00:00 **Received:** 06/10/24 15:50

Filter ID: Analysis Date: 06/13/24 05:36

Comments: Q8505842 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|------------------|--------------|------------|
| <u>Analyte</u> | CAS Number | <u>ng/m³ Air</u> | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.0176 | SL, U | 0.0318 |
| Arsenic | 7440-38-2 | 0.00828 | FB-01 | 0.00771 |
| Barium | 7440-39-3 | 0.942 | FB-01, QB-01 | 0.881 |
| Beryllium | 7440-41-7 | 9.25E-4 | U | 0.00263 |
| Cadmium | 7440-43-9 | 0.00125 | U | 0.0610 |
| Chromium | 7440-47-3 | 0.925 | U | 1.82 |
| Cobalt | 7440-48-4 | 0.0135 | U | 0.0359 |
| Copper | 7440-50-8 | 1.19 | U | 2.17 |
| Lead | 7439-92-1 | 0.0672 | U | 0.176 |
| Manganese | 7439-96-5 | 0.235 | U | 1.56 |
| Molybdenum | 7439-98-7 | 0.157 | U | 0.296 |
| Nickel | 7440-02-0 | 0.406 | U | 0.537 |
| Selenium | 7782-49-2 | 0.00514 | U | 0.00738 |
| Thallium | 7440-28-0 | 1.28E-4 | U | 4.85E-4 |
| Vanadium | 7440-62-2 | 0.0271 | U | 0.0435 |
| Zinc | 7440-66-6 | 12.8 | U | 63.2 |



Tetra Tech, Inc.

Description:

Comments:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

MFL-AM01-060324-HM

Matrix: Air

Q8505838 - Received in good condition

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Sampled: 06/03/24 23:59

Received: 06/10/24 15:50

Analysis Date: 06/13/24 05:49

Inorganics by Compendium Method IO-3.5

4061041-19

Sample Volume: 1893.377 m³

| | _ | Results | | <u>MDL</u> |
|----------------|-------------------|-----------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.0731 | SL | 0.0332 |
| Arsenic | 7440-38-2 | 0.979 | | 0.00805 |
| Barium | 7440-39-3 | 6.53 | QB-01 | 0.919 |
| Beryllium | 7440-41-7 | 0.0216 | | 0.00275 |
| Cadmium | 7440-43-9 | 0.0244 | U | 0.0637 |
| Chromium | 7440-47-3 | 5.52 | | 1.90 |
| Cobalt | 7440-48-4 | 0.954 | | 0.0375 |
| Copper | 7440-50-8 | 260 | | 2.26 |
| Lead | 7439-92-1 | 0.552 | | 0.184 |
| Manganese | 7439-96-5 | 25.1 | | 1.62 |
| Molybdenum | 7439-98-7 | 15.6 | | 0.308 |
| Nickel | 7440-02-0 | 4.24 | | 0.560 |
| Selenium | 7782-49-2 | 0.259 | | 0.00770 |
| Thallium | 7440-28-0 | 0.00283 | | 5.06E-4 |
| Vanadium | 7440-62-2 | 2.63 | | 0.0455 |
| Zinc | 7440-66-6 | 25.0 | U | 66.0 |

Lab ID:

Filter ID:



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Lab ID: 4061041-20

Sampled: 06/03/24 23:59

Sample Volume: 2002.056 m³ **Received:** 06/10/24 15:50

Filter ID: Analysis Date: 06/13/24 06:06

Comments: Q8505839 - Received in good condition

MFL-AM02-060324-HM

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.323 | SL | 0.0314 |
| Arsenic | 7440-38-2 | 1.22 | | 0.00761 |
| Barium | 7440-39-3 | 8.71 | QB-01 | 0.870 |
| Beryllium | 7440-41-7 | 0.0201 | | 0.00260 |
| Cadmium | 7440-43-9 | 0.0270 | U | 0.0602 |
| Chromium | 7440-47-3 | 3.14 | | 1.80 |
| Cobalt | 7440-48-4 | 0.681 | | 0.0354 |
| Copper | 7440-50-8 | 53.4 | | 2.14 |
| Lead | 7439-92-1 | 1.70 | | 0.174 |
| Manganese | 7439-96-5 | 19.0 | | 1.54 |
| Molybdenum | 7439-98-7 | 2.30 | | 0.292 |
| Nickel | 7440-02-0 | 2.84 | | 0.530 |
| Selenium | 7782-49-2 | 0.249 | | 0.00728 |
| Thallium | 7440-28-0 | 0.00281 | | 4.79E-4 |
| Vanadium | 7440-62-2 | 1.95 | | 0.0430 |
| Zinc | 7440-66-6 | 35.5 | U | 62.4 |



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM03-060324-HM Lab ID: 4061041-21

Sample Volume: 1881.612 m³

Received: 06/10/24 15:50

Sampled: 06/03/24 23:59

Filter ID: **Analysis Date:** 06/13/24 06:38

Comments: Q8505840 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.0720 | SL | 0.0334 |
| Arsenic | 7440-38-2 | 0.296 | | 0.00810 |
| Barium | 7440-39-3 | 3.50 | QB-01 | 0.925 |
| Beryllium | 7440-41-7 | 0.0279 | | 0.00277 |
| Cadmium | 7440-43-9 | 0.0142 | U | 0.0641 |
| Chromium | 7440-47-3 | 2.49 | | 1.91 |
| Cobalt | 7440-48-4 | 0.447 | | 0.0377 |
| Copper | 7440-50-8 | 42.8 | | 2.27 |
| Lead | 7439-92-1 | 0.549 | | 0.185 |
| Manganese | 7439-96-5 | 11.3 | | 1.63 |
| Molybdenum | 7439-98-7 | 2.79 | | 0.310 |
| Nickel | 7440-02-0 | 1.48 | | 0.564 |
| Selenium | 7782-49-2 | 0.239 | | 0.00775 |
| Thallium | 7440-28-0 | 0.00237 | | 5.09E-4 |
| Vanadium | 7440-62-2 | 1.19 | | 0.0457 |
| Zinc | 7440-66-6 | 25.7 | U | 66.4 |



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM04-060324-HM **Lab ID:** 4061041-22

Sample Volume: 1718.763 m³

Sampled: 06/03/24 23:59 **Received:** 06/10/24 15:50

Filter ID: Analysis Date: 06/13/24 07:47

Comments: Q8505843 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.104 | SL | 0.0365 |
| Arsenic | 7440-38-2 | 0.781 | | 0.00887 |
| Barium | 7440-39-3 | 4.95 | QB-01 | 1.01 |
| Beryllium | 7440-41-7 | 0.0175 | | 0.00303 |
| Cadmium | 7440-43-9 | 0.0203 | U | 0.0701 |
| Chromium | 7440-47-3 | 3.02 | | 2.09 |
| Cobalt | 7440-48-4 | 0.510 | | 0.0413 |
| Copper | 7440-50-8 | 29.5 | | 2.49 |
| Lead | 7439-92-1 | 1.27 | | 0.203 |
| Manganese | 7439-96-5 | 18.3 | | 1.79 |
| Molybdenum | 7439-98-7 | 1.54 | | 0.340 |
| Nickel | 7440-02-0 | 1.61 | | 0.617 |
| Selenium | 7782-49-2 | 0.246 | | 0.00848 |
| Thallium | 7440-28-0 | 0.00257 | | 5.58E-4 |
| Vanadium | 7440-62-2 | 1.53 | | 0.0501 |
| Zinc | 7440-66-6 | 29.9 | U | 72.7 |



Tetra Tech, Inc.

Description:

Comments:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

MFL-AM01-060424-HM

Air

Q8505844 - Received in good condition

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Sampled: 06/04/24 23:59

Received: 06/10/24 15:50 **Analysis Date:** 06/13/24 08:04

Inorganics by Compendium Method IO-3.5

4061041-23

Sample Volume: 1916.783 m³

| | _ | <u>Results</u> | | MDL |
|----------------|-------------------|----------------|-------------|-----------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Beryllium | 7440-41-7 | 0.0721 | | 0.00272 |
| Cadmium | 7440-43-9 | 1.24 | | 0.0629 |
| Cobalt | 7440-48-4 | 4.69 | | 0.0370 |
| Copper | 7440-50-8 | 624 | | 2.23 |
| Lead | 7439-92-1 | 5.98 | | 0.182 |
| Manganese | 7439-96-5 | 96.5 | | 1.60 |
| Molybdenum | 7439-98-7 | 12.9 | | 0.305 |
| Nickel | 7440-02-0 | 11.5 | | 0.553 |
| Selenium | 7782-49-2 | 0.538 | | 0.00761 |
| Thallium | 7440-28-0 | 0.00833 | | 5.00E-4 |
| Vanadium | 7440-62-2 | 7.94 | | 0.0449 |

Lab ID:

Filter ID:



Tetra Tech, Inc.

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

Description:

Matrix:

ATTN: Ms. Chelsea Saber

Air

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

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM01-060424-HM **Lab ID:** 4061041-23RE1

Sampled: 06/04/24 23:59

Sample Volume: 1916.783 m³

Analysis Date: 06/13/24 12:22

Received: 06/10/24 15:50

Filter ID:

Comments: Q8505844 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 9.37 | D, SL | 0.164 |
| Barium | 7440-39-3 | 327 | D, QB-01 | 4.54 |
| Chromium | 7440-47-3 | 130 | D | 9.38 |
| Zinc | 7440-66-6 | 994 | D | 326 |



Tetra Tech, Inc.

Comments:

Analyte

Arsenic

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Description: Matrix:

MFL-AM01-060424-HM

Air

Q8505844 - Received in good condition

7440-38-2

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE:

Lahaina fires

Sampled: 06/04/24 23:59 Received: 06/10/24 15:50

Analysis Date: 06/13/24 12:42

Inorganics by Compendium Method IO-3.5

4061041-23RE2

Sample Volume: 1916.783 m³

Results

ng/m³ Air **CAS Number**

Lab ID:

Filter ID:

537

<u>Flag</u> D

ng/m³ Air 0.795

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.

Page 29 of 55



Tetra Tech, Inc.

Description:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

MFL-AM02-060424-HM

Matrix: Air

Sample Volume: 2093.123 m³

Lab ID:

Filter ID:

4061041-24

FILE #: 4205.00.003.001

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE:

REPORTED: 06/19/24 13:12

Lahaina fires

Analysis Date: 06/13/24 08:24

Sampled: 06/04/24 23:59

Received: 06/10/24 15:50

Comments: Q8505845 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.228 | SL | 0.0300 |
| Arsenic | 7440-38-2 | 2.30 | | 0.00728 |
| Barium | 7440-39-3 | 7.72 | QB-01 | 0.832 |
| Beryllium | 7440-41-7 | 0.0249 | | 0.00249 |
| Cadmium | 7440-43-9 | 0.0298 | U | 0.0576 |
| Chromium | 7440-47-3 | 3.70 | | 1.72 |
| Cobalt | 7440-48-4 | 0.710 | | 0.0339 |
| Copper | 7440-50-8 | 57.9 | | 2.04 |
| Lead | 7439-92-1 | 1.93 | | 0.166 |
| Manganese | 7439-96-5 | 22.2 | | 1.47 |
| Molybdenum | 7439-98-7 | 2.22 | | 0.279 |
| Nickel | 7440-02-0 | 2.40 | | 0.507 |
| Selenium | 7782-49-2 | 0.346 | | 0.00696 |
| Thallium | 7440-28-0 | 0.00354 | | 4.58E-4 |
| Vanadium | 7440-62-2 | 2.49 | | 0.0411 |
| Zinc | 7440-66-6 | 38.4 | U | 59.7 |
| | | | | |



Tetra Tech, Inc.

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Description: MFL-AM03-060424-HM Lab ID: 4061041-25 Sample Volume: 1804.694 m³

Matrix: Air

Comments: Q8505846 - Received in good condition FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE: SITE CODE:

Sampled: 06/04/24 23:59

Lahaina fires

Received: 06/10/24 15:50

Analysis Date: 06/13/24 08:44

Inorganics by Compendium Method IO-3.5

| | . . | <u>Results</u> | | MDL |
|----------------|-------------------|----------------|-------------|-----------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.102 | SL | 0.0348 |
| Arsenic | 7440-38-2 | 0.586 | | 0.00845 |
| Barium | 7440-39-3 | 5.70 | QB-01 | 0.965 |
| Beryllium | 7440-41-7 | 0.0345 | | 0.00288 |
| Cadmium | 7440-43-9 | 0.0265 | U | 0.0668 |
| Chromium | 7440-47-3 | 2.70 | | 1.99 |
| Cobalt | 7440-48-4 | 0.495 | | 0.0393 |
| Copper | 7440-50-8 | 46.4 | | 2.37 |
| Lead | 7439-92-1 | 1.18 | | 0.193 |
| Manganese | 7439-96-5 | 13.7 | | 1.70 |
| Molybdenum | 7439-98-7 | 2.55 | | 0.324 |
| Nickel | 7440-02-0 | 1.60 | | 0.588 |
| Selenium | 7782-49-2 | 0.301 | | 0.00808 |
| Thallium | 7440-28-0 | 0.00338 | | 5.31E-4 |
| Vanadium | 7440-62-2 | 1.51 | | 0.0477 |
| Zinc | 7440-66-6 | 26.9 | U | 69.2 |
| | | | | |

Filter ID:



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM04-060424-HM **Lab ID:** 4061041-26

Sample Volume: 1750.317 m³

Sampled: 06/04/24 23:59 **Received:** 06/10/24 15:50

Filter ID: Analysis Date: 06/13/24 09:04

Comments: Q8505847 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.125 | SL | 0.0359 |
| Arsenic | 7440-38-2 | 0.613 | | 0.00871 |
| Barium | 7440-39-3 | 5.67 | QB-01 | 0.995 |
| Beryllium | 7440-41-7 | 0.0169 | | 0.00297 |
| Cadmium | 7440-43-9 | 0.0239 | U | 0.0689 |
| Chromium | 7440-47-3 | 2.93 | | 2.05 |
| Cobalt | 7440-48-4 | 0.510 | | 0.0405 |
| Copper | 7440-50-8 | 28.1 | | 2.44 |
| Lead | 7439-92-1 | 1.20 | | 0.199 |
| Manganese | 7439-96-5 | 18.6 | | 1.76 |
| Molybdenum | 7439-98-7 | 1.49 | | 0.334 |
| Nickel | 7440-02-0 | 1.64 | | 0.606 |
| Selenium | 7782-49-2 | 0.314 | | 0.00833 |
| Thallium | 7440-28-0 | 0.00375 | | 5.48E-4 |
| Vanadium | 7440-62-2 | 1.75 | | 0.0492 |
| Zinc | 7440-66-6 | 28.8 | U | 71.4 |



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-FB01-060424-HM **Lab ID:** 4061041-27

Sampled: 06/04/24 00:00

Sample Volume: 1916.783 m³ Filter ID:

Analysis Date: 06/13/24 09:35

Received: 06/10/24 15:50

Comments: Q8508523 - Received in good condition

| | | Results | | MDL |
|----------------|-------------------|-----------|-------------|------------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | <u>ng/m³ Air</u> |
| Antimony | 7440-36-0 | 0.0188 | SL, U | 0.0328 |
| Arsenic | 7440-38-2 | 0.0419 | FB-01 | 0.00795 |
| Barium | 7440-39-3 | 0.692 | QB-01, U | 0.908 |
| Beryllium | 7440-41-7 | 5.04E-4 | U | 0.00272 |
| Cadmium | 7440-43-9 | 5.68E-4 | U | 0.0629 |
| Chromium | 7440-47-3 | 0.907 | U | 1.88 |
| Cobalt | 7440-48-4 | 0.0105 | U | 0.0370 |
| Copper | 7440-50-8 | 0.360 | U | 2.23 |
| Lead | 7439-92-1 | 0.0270 | U | 0.182 |
| Manganese | 7439-96-5 | 0.205 | U | 1.60 |
| Molybdenum | 7439-98-7 | 0.136 | U | 0.305 |
| Nickel | 7440-02-0 | 0.374 | U | 0.553 |
| Selenium | 7782-49-2 | 0.00273 | U | 0.00761 |
| Thallium | 7440-28-0 | 1.20E-4 | U | 5.00E-4 |
| Vanadium | 7440-62-2 | 0.0201 | U | 0.0449 |
| Zinc | 7440-66-6 | 14.3 | U | 65.2 |



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: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Description: MFL-AM01-060524-HM

Lab ID: 4061041-28

Sampled: 06/05/24 23:59

Matrix: Air

Sample Volume: 1880.978 m³

Received: 06/10/24 15:50

Filter ID:

Analysis Date: 06/13/24 09:49

Comments: Q8508517 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 1.20 | SL | 0.0334 |
| Barium | 7440-39-3 | 44.5 | QB-01 | 0.926 |
| Beryllium | 7440-41-7 | 0.0630 | | 0.00277 |
| Cadmium | 7440-43-9 | 0.208 | | 0.0641 |
| Chromium | 7440-47-3 | 19.3 | | 1.91 |
| Cobalt | 7440-48-4 | 2.67 | | 0.0377 |
| Copper | 7440-50-8 | 366 | | 2.27 |
| Lead | 7439-92-1 | 2.97 | | 0.185 |
| Manganese | 7439-96-5 | 85.1 | | 1.63 |
| Molybdenum | 7439-98-7 | 11.4 | | 0.311 |
| Nickel | 7440-02-0 | 6.67 | | 0.564 |
| Selenium | 7782-49-2 | 0.528 | | 0.00775 |
| Thallium | 7440-28-0 | 0.00795 | | 5.09E-4 |
| Vanadium | 7440-62-2 | 7.51 | | 0.0458 |
| Zinc | 7440-66-6 | 106 | | 66.4 |
| | | | | |



Tetra Tech, Inc.

Description:

Comments:

Analyte

Arsenic

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

MFL-AM01-060524-HM

Matrix: Air

Filter ID: Q8508517 - Received in good condition

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

4061041-28RE1 Sampled: 06/05/24 23:59

Received: 06/10/24 15:50

Analysis Date: 06/13/24 12:56

Inorganics by Compendium Method IO-3.5

Sample Volume: 1880.978 m³

Results

Lab ID:

CAS Number 7440-38-2

ng/m³ Air 42.3

<u>Flag</u>

ng/m³ Air 0.0648



Tetra Tech, Inc.

Description:

Comments:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

MFL-AM02-060524-HM

Matrix:

Air

Lab ID:

Sample Volume: 2100.567 m³

Filter ID:

4061041-29

Lahaina fires

FILE #: 4205.00.003.001

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE:

REPORTED: 06/19/24 13:12

Received: 06/10/24 15:50

Sampled: 06/05/24 23:59

Analysis Date: 06/13/24 10:09

Q8508518 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.192 | SL | 0.0299 |
| Arsenic | 7440-38-2 | 0.950 | | 0.00726 |
| Barium | 7440-39-3 | 7.54 | QB-01 | 0.829 |
| Beryllium | 7440-41-7 | 0.0255 | | 0.00248 |
| Cadmium | 7440-43-9 | 0.0379 | U | 0.0574 |
| Chromium | 7440-47-3 | 3.72 | | 1.71 |
| Cobalt | 7440-48-4 | 0.677 | | 0.0338 |
| Copper | 7440-50-8 | 52.2 | | 2.04 |
| Lead | 7439-92-1 | 2.17 | | 0.166 |
| Manganese | 7439-96-5 | 24.8 | | 1.46 |
| Molybdenum | 7439-98-7 | 2.11 | | 0.278 |
| Nickel | 7440-02-0 | 1.86 | | 0.505 |
| Selenium | 7782-49-2 | 0.375 | | 0.00694 |
| Thallium | 7440-28-0 | 0.00534 | | 4.56E-4 |
| Vanadium | 7440-62-2 | 2.47 | | 0.0410 |
| Zinc | 7440-66-6 | 25.8 | U | 59.5 |



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM03-060524-HM **Lab ID:** 4061041-30

Sample Volume: 1988.414 m³

Sampled: 06/05/24 23:59 **Received:** 06/10/24 15:50

Filter ID: Analysis Date: 06/13/24 10:28

Comments: Q8508519 - Received in good condition

| | | <u>Results</u> | | <u>MDL</u> |
|----------------|-------------------|----------------|-------------|------------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 0.0861 | SL | 0.0316 |
| Arsenic | 7440-38-2 | 0.323 | | 0.00767 |
| Barium | 7440-39-3 | 4.13 | QB-01 | 0.876 |
| Beryllium | 7440-41-7 | 0.0300 | | 0.00262 |
| Cadmium | 7440-43-9 | 0.0205 | U | 0.0606 |
| Chromium | 7440-47-3 | 2.58 | | 1.81 |
| Cobalt | 7440-48-4 | 0.465 | | 0.0357 |
| Copper | 7440-50-8 | 54.1 | | 2.15 |
| Lead | 7439-92-1 | 1.02 | | 0.175 |
| Manganese | 7439-96-5 | 12.8 | | 1.55 |
| Molybdenum | 7439-98-7 | 2.28 | | 0.294 |
| Nickel | 7440-02-0 | 1.49 | | 0.533 |
| Selenium | 7782-49-2 | 0.311 | | 0.00733 |
| Thallium | 7440-28-0 | 0.00477 | | 4.82E-4 |
| Vanadium | 7440-62-2 | 1.43 | | 0.0433 |
| Zinc | 7440-66-6 | 26.1 | U | 62.8 |



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: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Description: MFL-AM04-060524-HM

Lab ID: 4061041-31

Sampled: 06/05/24 23:59

Matrix: Air

Sample Volume: 1734.245 m³

Received: 06/10/24 15:50

Filter ID:

Analysis Date: 06/13/24 11:38

Comments: Q8508521 - Received in good condition

| <u>Results</u> | | | | | | | |
|-------------------|---|--|---|--|--|--|--|
| CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air | | | | |
| 7440-36-0 | 0.133 | SL | 0.0362 | | | | |
| 7440-38-2 | 0.588 | | 0.00879 | | | | |
| 7440-39-3 | 5.03 | QB-01 | 1.00 | | | | |
| 7440-41-7 | 0.0161 | | 0.00300 | | | | |
| 7440-43-9 | 0.0263 | U | 0.0695 | | | | |
| 7440-47-3 | 2.60 | | 2.07 | | | | |
| 7440-48-4 | 0.467 | | 0.0409 | | | | |
| 7440-50-8 | 30.1 | | 2.47 | | | | |
| 7439-92-1 | 1.35 | | 0.201 | | | | |
| 7439-96-5 | 16.4 | | 1.77 | | | | |
| 7439-98-7 | 1.52 | | 0.337 | | | | |
| 7440-02-0 | 1.44 | | 0.612 | | | | |
| 7782-49-2 | 0.309 | | 0.00841 | | | | |
| 7440-28-0 | 0.00488 | | 5.53E-4 | | | | |
| 7440-62-2 | 1.60 | | 0.0496 | | | | |
| 7440-66-6 | 23.3 | U | 72.1 | | | | |
| | 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-96-5 7439-98-7 7440-02-0 7782-49-2 7440-28-0 7440-62-2 | CAS Number ng/m³ Air 7440-36-0 0.133 7440-38-2 0.588 7440-39-3 5.03 7440-41-7 0.0161 7440-43-9 0.0263 7440-47-3 2.60 7440-48-4 0.467 7440-50-8 30.1 7439-92-1 1.35 7439-96-5 16.4 7439-98-7 1.52 7440-02-0 1.44 7782-49-2 0.309 7440-28-0 0.00488 7440-62-2 1.60 | CAS Number nq/m³ Air Flag 7440-36-0 0.133 SL 7440-38-2 0.588 CP-01 7440-39-3 5.03 QP-01 7440-41-7 0.0161 CP-01 7440-43-9 0.0263 U 7440-47-3 2.60 CP-01 7440-48-4 0.467 CP-01 7440-50-8 30.1 CP-01 7439-92-1 1.35 CP-01 7439-98-7 1.52 CP-01 7440-02-0 1.44 CP-01 7782-49-2 0.309 CP-01 7440-28-0 0.00488 CP-01 7440-62-2 1.60 CP-01 | | | | |



Tetra Tech, Inc.

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Eastern Research Group

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

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.

Page 39 of 55

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------|----------------|-----------|------------|----------------|------------------|----------|----------------|---------|--------------|-------|
| norganics by Compendi | um Method IO-3 | .5 - Qual | ity Contro | ol | | | | | | |
| Batch 2406040 - B4F1206 | | | | | | | | | | |
| Calibration Blank (24060 | 40-CCB1) | | | Prep | oared & A | nalyzed: | 06/12/24 | | | |
| Antimony | 0.569 | | ng/l | | | | | | | |
| Arsenic | 2.43 | | ng/l | | | | | | | |
| Barium | 0.668 | | ng/l | | | | | | | |
| Beryllium | 0.0755 | | ng/l | | | | | | | |
| Cadmium | 0.0261 | | ng/l | | | | | | | |
| Chromium | 3.13 | | ng/l | | | | | | | |
| Cobalt | 0.382 | | ng/l | | | | | | | |
| Copper | 282 | | ng/l | | | | | | | |
| Lead | -2.17 | | ng/l | | | | | | | U |
| Manganese | 5.82 | | ng/l | | | | | | | |
| Molybdenum | 28.8 | | ng/l | | | | | | | |
| Nickel | 2.26 | | ng/l | | | | | | | |
| Selenium | 9.08 | | ng/l | | | | | | | |
| Thallium | 0.775 | | ng/l | | | | | | | |
| Vanadium | -26.1 | | ng/l | | | | | | | U |
| Zinc | -17.3 | | ng/l | | | | | | | U |
| Calibration Blank (24060 | 40-CCB2) | | - | Prep | oared & A | nalyzed: | 06/12/24 | | | |
| Antimony | 0.0458 | | ng/l | • | | <u>-</u> | - | | | |
| Arsenic | 1.54 | | ng/l | | | | | | | |
| Barium | 0.439 | | ng/l | | | | | | | |
| Beryllium | 0.368 | | ng/l | | | | | | | |
| Cadmium | 0.0567 | | ng/l | | | | | | | |
| Chromium | 1.39 | | ng/l | | | | | | | |
| Cobalt | 0.0535 | | ng/l | | | | | | | |
| Copper | 193 | | ng/l | | | | | | | |
| Lead | -3.89 | | ng/l | | | | | | | U |
| Manganese | 4.05 | | ng/l | | | | | | | |
| Molybdenum | 5.12 | | ng/l | | | | | | | |
| Nickel | 2.60 | | ng/l | | | | | | | |
| Selenium | 12.1 | | ng/l | | | | | | | |
| Thallium | 0.717 | | ng/l | | | | | | | |
| Vanadium | -20.0 | | ng/l | | | | | | | U |
| Zinc | -33.4 | | ng/l | | | | | | | U |
| Calibration Blank (24060 | 40-CCB3) | | - | Prep | pared: 06/ | /12/24 A | nalyzed: | 06/13/2 | 4 | |
| Antimony | -0.0664 | | ng/l | | | | | | | U |
| Arsenic | 6.52 | | ng/l | | | | | | | |
| Barium | 0.385 | | ng/l | | | | | | | |
| Beryllium | 0.694 | | ng/l | | | | | | | |



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: 06/19/24 13:12

SUBMITTED: 06/10/24

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 I | Method IO-3 | .5 - Quali | ty Contro | ol . | | | | | | |
| Batch 2406040 - B4F1206 | | <u>.</u> | | | | | | | | |
| Calibration Blank (2406040-C | CB3) Contin | | | Prep | ared: 06/ | /12/24 <i>A</i> | nalyzed: | 06/13/24 | 1 | |
| Cadmium | -0.0628 | | ng/l | | | | | | | U |
| Chromium | 1.97 | | ng/l | | | | | | | |
| Cobalt | 0.0204 | | ng/l | | | | | | | |
| Copper | 183 | | ng/l | | | | | | | |
| Lead | -4.88 | | ng/l | | | | | | | U |
| Manganese | 1.49 | | ng/l | | | | | | | |
| Molybdenum | 4.64 | | ng/l | | | | | | | |
| Nickel | 3.13 | | ng/l | | | | | | | |
| Selenium | 0.941 | | ng/l | | | | | | | |
| Thallium | 1.11 | | ng/l | | | | | | | |
| Vanadium | -27.1 | | ng/l | | | | | | | U |
| Zinc | -66.5 | | ng/l | | | | | | | U |
| Calibration Blank (2406040-C | CB4) | | | Prep | ared: 06/ | /12/24 <i>A</i> | nalyzed: | 06/13/24 | 1 | |
| Antimony | 0.144 | | ng/l | | | | | | | |
| Arsenic | 5.04 | | ng/l | | | | | | | |
| Barium | 0.621 | | ng/l | | | | | | | |
| Beryllium | 0.376 | | ng/l | | | | | | | |
| Cadmium | -0.0284 | | ng/l | | | | | | | U |
| Chromium | 2.60 | | ng/l | | | | | | | |
| Cobalt | 0.00372 | | ng/l | | | | | | | |
| Copper | 127 | | ng/l | | | | | | | |
| Lead | -5.09 | | ng/l | | | | | | | U |
| Manganese | 3.02 | | ng/l | | | | | | | |
| Molybdenum | 5.26 | | ng/l | | | | | | | |
| Nickel | 4.87 | | ng/l | | | | | | | |
| Selenium | 3.29 | | ng/l | | | | | | | |
| Thallium | 0.787 | | ng/l | | | | | | | |
| Vanadium | -25.4 | | ng/l | | | | | | | U |
| Zinc | -62.9 | | ng/l | | | | | | | U |
| Calibration Blank (2406040-C | | | | Prep | ared: 06/ | /12/24 <i>A</i> | nalyzed: | 06/13/24 | 1 | |
| Antimony | 0.372 | | ng/l | | | | | | | |
| Arsenic | 4.56 | | ng/l | | | | | | | |
| Barium | 3.62 | | ng/l | | | | | | | |
| Beryllium | -0.539 | | ng/l | | | | | | | U |
| Cadmium | 0.141 | | ng/l | | | | | | | |
| Chromium | 5.45 | | ng/l | | | | | | | |
| Cobalt | 0.340 | | ng/l | | | | | | | |
| Copper | 124 | | ng/l | | | | | | | |
| | | | | | | | | | | |

Eastern Research Group



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: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| nalyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------|--------------------|-----------|------------|----------------|------------------|-----------------|----------------|----------|--------------|-------|
| norganics by Compe | | .5 - Qual | ity Contro | ol | | | | | | |
| Batch 2406040 - B4F12 | <i>206</i> | | | | | | | | | |
| Calibration Blank (24) | 06040-CCB5) Contin | | | Prep | oared: 06/ | /12/24 <i>A</i> | nalyzed: | 06/13/24 | 1 | |
| Lead | -3.58 | | ng/l | | | | | | | U |
| Manganese | 6.47 | | ng/l | | | | | | | |
| Molybdenum | 6.13 | | ng/l | | | | | | | |
| Nickel | 8.75 | | ng/l | | | | | | | |
| Selenium | 5.75 | | ng/l | | | | | | | |
| Thallium | 0.877 | | ng/l | | | | | | | |
| Vanadium | -28.8 | | ng/l | | | | | | | U |
| Zinc | 373 | | ng/l | | | | | | | |
| Calibration Blank (24 | 06040-CCB6) | | | Prep | pared: 06/ | /12/24 A | nalyzed: | 06/13/24 | 1 | |
| Antimony | 0.166 | | ng/l | | | | | | | |
| Arsenic | 8.73 | | ng/l | | | | | | | |
| Barium | 0.569 | | ng/l | | | | | | | |
| Beryllium | -0.626 | | ng/l | | | | | | | U |
| Cadmium | -0.0235 | | ng/l | | | | | | | U |
| Chromium | 3.10 | | ng/l | | | | | | | |
| Cobalt | -0.00570 | | ng/l | | | | | | | U |
| Copper | 95.1 | | ng/l | | | | | | | |
| Lead | -5.55 | | ng/l | | | | | | | U |
| Manganese | 1.70 | | ng/l | | | | | | | |
| Molybdenum | 5.84 | | ng/l | | | | | | | |
| Nickel | 8.21 | | ng/l | | | | | | | |
| Selenium | 13.1 | | ng/l | | | | | | | |
| Thallium | 0.760 | | ng/l | | | | | | | |
| Vanadium | -39.5 | | ng/l | | | | | | | U |
| Zinc | 26.6 | | ng/l | | | | | | | |
| Calibration Blank (24 | 06040-CCB7) | | | Prep | pared: 06/ | /12/24 A | nalyzed: | 06/13/24 | 1 | |
| Antimony | 0.116 | | ng/l | | | | | | | |
| Arsenic | 11.9 | | ng/l | | | | | | | |
| Barium | 1.03 | | ng/l | | | | | | | |
| Beryllium | -0.800 | | ng/l | | | | | | | U |
| Cadmium | -0.0553 | | ng/l | | | | | | | U |
| Chromium | 2.86 | | ng/l | | | | | | | |
| Cobalt | 0.106 | | ng/l | | | | | | | |
| Copper | 76.6 | | ng/l | | | | | | | |
| Lead | -5.47 | | ng/l | | | | | | | U |
| Manganese | 1.37 | | ng/l | | | | | | | |
| Molybdenum | 4.64 | | ng/l | | | | | | | |
| Nickel | 6.06 | | ng/l | | | | | | | |

Eastern Research Group



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: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------|------------------|------------|-----------|----------------|------------------|----------------|----------------|----------|--------------|-------|
| norganics by Compend | ium Method IO-3 | .5 - Quali | ity Contr | ol | | | | | | |
| Batch 2406040 - B4F1206 | • | | | | | | | | | |
| Calibration Blank (24060 | 040-CCB7) Contin | | | Prepa | ared: 06/ | 12/24 <i>A</i> | nalyzed: | 06/13/24 | 1 | |
| Selenium | 19.7 | | ng/l | | | | | | | |
| Thallium | 0.842 | | ng/l | | | | | | | |
| Vanadium | -42.4 | | ng/l | | | | | | | U |
| Zinc | -19.7 | | ng/l | | | | | | | U |
| Calibration Check (2406) | 040-CCV1) | | | Prepa | ared & A | nalyzed: | 06/12/24 | + | | |
| Antimony | 20000 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Arsenic | 19700 | | ng/l | 20000 | | 98.5 | 90-110 | | | |
| Barium | 200000 | | ng/l | 200000 | | 100 | 90-110 | | | |
| Beryllium | 4940 | | ng/l | 5000.0 | | 98.7 | 90-110 | | | |
| Cadmium | 20100 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Chromium | 233000 | | ng/l | 240000 | | 97.3 | 90-110 | | | |
| Cobalt | 49800 | | ng/l | 50000 | | 99.6 | 90-110 | | | |
| Copper | 1.99E6 | | ng/l | 2.0000E6 | | 99.7 | 90-110 | | | |
| Lead | 198000 | | ng/l | 200000 | | 98.9 | 90-110 | | | |
| Manganese | 488000 | | ng/l | 500000 | | 97.6 | 90-110 | | | |
| Molybdenum | 50300 | | ng/l | 50000 | | 101 | 90-110 | | | |
| Nickel | 120000 | | ng/l | 120000 | | 100 | 90-110 | | | |
| Selenium | 19600 | | ng/l | 20000 | | 97.8 | 90-110 | | | |
| Thallium | 499 | | ng/l | 500.00 | | 99.8 | 90-110 | | | |
| Vanadium | 19500 | | ng/l | 20000 | | 97.6 | 90-110 | | | |
| Zinc | 504000 | | ng/l | 500000 | | 101 | 90-110 | | | |
| Calibration Check (2406) | 040-CCV2) | | <u>.</u> | Prepa | ared & A | nalyzed: | 06/12/24 | + | | |
| Antimony | 20200 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Arsenic | 19700 | | ng/l | 20000 | | 98.3 | 90-110 | | | |
| Barium | 201000 | | ng/l | 200000 | | 101 | 90-110 | | | |
| Beryllium | 4840 | | ng/l | 5000.0 | | 96.7 | 90-110 | | | |
| Cadmium | 19900 | | ng/l | 20000 | | 99.7 | 90-110 | | | |
| Chromium | 230000 | | ng/l | 240000 | | 95.8 | 90-110 | | | |
| Cobalt | 49100 | | ng/l | 50000 | | 98.2 | 90-110 | | | |
| Copper | 1.95E6 | | ng/l | 2.0000E6 | | 97.5 | 90-110 | | | |
| Lead | 196000 | | ng/l | 200000 | | 98.0 | 90-110 | | | |
| Manganese | 484000 | | ng/l | 500000 | | 96.7 | 90-110 | | | |
| Molybdenum | 49200 | | ng/l | 50000 | | 98.4 | 90-110 | | | |
| Nickel | 118000 | | ng/l | 120000 | | 98.5 | 90-110 | | | |
| Selenium | 19700 | | ng/l | 20000 | | 98.6 | 90-110 | | | |
| Thallium | 490 | | ng/l | 500.00 | | 98.0 | 90-110 | | | |
| Vanadium | 19600 | | ng/l | 20000 | | 97.9 | 90-110 | | | |
| Zinc | 498000 | | ng/l | 500000 | | 99.7 | 90-110 | | | |

Eastern Research Group



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: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------|-----------------|---------|------------|----------------|------------------|---------|----------------|----------|--------------|-------|
| norganics by Compendiu | ım Method IO-3. | 5 - Qua | lity Contr | ol | | | | | | |
| Batch 2406040 - B4F1206 | | | | | | | | | | |
| Calibration Check (240604 | 40-CCV3) | | | Prepa | ared & Ar | nalyzed | : 06/12/24 | 1 | | |
| Antimony | 20500 | | ng/l | 20000 | | 103 | 90-110 | | | |
| Arsenic | 19800 | | ng/l | 20000 | | 99.0 | 90-110 | | | |
| Barium | 202000 | | ng/l | 200000 | | 101 | 90-110 | | | |
| Beryllium | 4880 | | ng/l | 5000.0 | | 97.5 | 90-110 | | | |
| Cadmium | 19800 | | ng/l | 20000 | | 98.9 | 90-110 | | | |
| Chromium | 226000 | | ng/l | 240000 | | 94.0 | 90-110 | | | |
| Cobalt | 48300 | | ng/l | 50000 | | 96.6 | 90-110 | | | |
| Copper | 1.91E6 | | ng/l | 2.0000E6 | | 95.3 | 90-110 | | | |
| Lead | 197000 | | ng/l | 200000 | | 98.6 | 90-110 | | | |
| Manganese | 477000 | | ng/l | 500000 | | 95.3 | 90-110 | | | |
| Molybdenum | 49000 | | ng/l | 50000 | | 98.0 | 90-110 | | | |
| Nickel | 117000 | | ng/l | 120000 | | 97.2 | 90-110 | | | |
| Selenium | 19800 | | ng/l | 20000 | | 98.9 | 90-110 | | | |
| Thallium | 482 | | ng/l | 500.00 | | 96.4 | 90-110 | | | |
| Vanadium | 19600 | | ng/l | 20000 | | 97.9 | 90-110 | | | |
| Zinc | 492000 | | ng/l | 500000 | | 98.4 | 90-110 | | | |
| Calibration Check (240604 | 40-CCV4) | | | Prepa | ared: 06/ | 12/24 | Analyzed: | 06/13/24 | | |
| Antimony | 20900 | | ng/l | 20000 | | 104 | 90-110 | | | |
| Arsenic | 20100 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Barium | 206000 | | ng/l | 200000 | | 103 | 90-110 | | | |
| Beryllium | 4920 | | ng/l | 5000.0 | | 98.3 | 90-110 | | | |
| Cadmium | 20100 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Chromium | 228000 | | ng/l | 240000 | | 95.0 | 90-110 | | | |
| Cobalt | 48900 | | ng/l | 50000 | | 97.8 | 90-110 | | | |
| Copper | 1.93E6 | | ng/l | 2.0000E6 | | 96.3 | 90-110 | | | |
| Lead | 199000 | | ng/l | 200000 | | 99.3 | 90-110 | | | |
| Manganese | 486000 | | ng/l | 500000 | | 97.1 | 90-110 | | | |
| Molybdenum | 49800 | | ng/l | 50000 | | 99.5 | 90-110 | | | |
| Nickel | 117000 | | ng/l | 120000 | | 97.7 | 90-110 | | | |
| Selenium | 20000 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Thallium | 480 | | ng/l | 500.00 | | 96.0 | 90-110 | | | |
| Vanadium | 19700 | | ng/l | 20000 | | 98.3 | 90-110 | | | |
| Zinc | 496000 | | ng/l | 500000 | | 99.2 | 90-110 | | | |
| Calibration Check (240604 | 40-CCV5) | | | Prepa | ared: 06/ | 12/24 | Analyzed: | 06/13/24 | | |
| Antimony | 21100 | | ng/l | 20000 | | 105 | 90-110 | | | |
| Arsenic | 20000 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Barium | 210000 | | ng/l | 200000 | | 105 | 90-110 | | | |
| Beryllium | 4980 | | ng/l | 5000.0 | | 99.6 | 90-110 | | | |

Eastern Research Group



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: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

Source

Spike Level

SITE CODE: Lahaina fires

%REC

RPD

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------------------|-----------|-----------|----------------|------------------|------|----------------|----------|--------------|-------|
| norganics by Compe Batch 2406040 - B4F12 | endium Method IO-3 | .5 - Qual | ity Conti | rol | | | | | | |
| Calibration Check (24 | | | | Prena | ared: 06/1 | 2/24 | Analyzed: | 06/13/24 | | |
| Cadmium | 20200 | | ng/l | 20000 | | 101 | 90-110 | ,, | | |
| Chromium | 227000 | | ng/l | 240000 | | 94.5 | 90-110 | | | |
| Cobalt | 48800 | | ng/l | 50000 | | 97.6 | 90-110 | | | |
| Copper | 1.92E6 | | ng/l | 2.0000E6 | | 96.1 | 90-110 | | | |
| Lead | 200000 | | ng/l | 200000 | | 100 | 90-110 | | | |
| Manganese | 483000 | | ng/l | 500000 | | 96.6 | 90-110 | | | |
| Molybdenum | 50900 | | ng/l | 50000 | | 102 | 90-110 | | | |
| Nickel | 117000 | | ng/l | 120000 | | 97.7 | 90-110 | | | |
| Selenium | 19700 | | ng/l | 20000 | | 98.7 | 90-110 | | | |
| Thallium | 485 | | ng/l | 500.00 | | 96.9 | 90-110 | | | |
| Vanadium | 19700 | | ng/l | 20000 | | 98.7 | 90-110 | | | |
| Zinc | 498000 | | ng/l | 500000 | | 99.7 | 90-110 | | | |
| Calibration Check (24 | | | <i>3,</i> | | ared: 06/1 | 2/24 | Analyzed: | 06/13/24 | | |
| Antimony | 21000 | | ng/l | 20000 | | 105 | 90-110 | | | |
| Arsenic | 20000 | | ng/l | 20000 | | 99.9 | 90-110 | | | |
| Barium | 211000 | | ng/l | 200000 | | 106 | 90-110 | | | |
| Beryllium | 4980 | | ng/l | 5000.0 | | 99.7 | 90-110 | | | |
| Cadmium | 20000 | | ng/l | 20000 | | 99.9 | 90-110 | | | |
| Chromium | 234000 | | ng/l | 240000 | | 97.5 | 90-110 | | | |
| Cobalt | 49000 | | ng/l | 50000 | | 98.1 | 90-110 | | | |
| Copper | 1.93E6 | | ng/l | 2.0000E6 | | 96.7 | 90-110 | | | |
| Lead | 201000 | | ng/l | 200000 | | 101 | 90-110 | | | |
| Manganese | 489000 | | ng/l | 500000 | | 97.8 | 90-110 | | | |
| Molybdenum | 51100 | | ng/l | 50000 | | 102 | 90-110 | | | |
| Nickel | 118000 | | ng/l | 120000 | | 98.1 | 90-110 | | | |
| Selenium | 19700 | | ng/l | 20000 | | 98.7 | 90-110 | | | |
| Thallium | 475 | | ng/l | 500.00 | | 95.1 | 90-110 | | | |
| Vanadium | 19700 | | ng/l | 20000 | | 98.7 | 90-110 | | | |
| Zinc | 493000 | | ng/l | 500000 | | 98.6 | 90-110 | | | |
| Calibration Check (24 | 06040-CCV7) | | - | Prepa | ared: 06/1 | 2/24 | Analyzed: | 06/13/24 | | |
| Antimony | 21200 | | ng/l | 20000 | | 106 | 90-110 | | | |
| Arsenic | 20000 | | ng/l | 20000 | | 99.9 | 90-110 | | | |
| Barium | 212000 | | ng/l | 200000 | | 106 | 90-110 | | | |
| Beryllium | 5020 | | ng/l | 5000.0 | | 100 | 90-110 | | | |
| Cadmium | 20100 | | ng/l | 20000 | | 100 | 90-110 | | | |
| Chromium | 239000 | | ng/l | 240000 | | 99.6 | 90-110 | | | |
| Cobalt | 48400 | | ng/l | 50000 | | 96.8 | 90-110 | | | |
| Copper | 1.92E6 | | ng/l | 2.0000E6 | | 96.0 | 90-110 | | | |

Eastern Research Group



Tetra Tech, Inc.

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Eastern Research Group

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

Source

Spike Level

SITE CODE: Lahaina fires

%REC

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.

RPD

Page 45 of 55

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|------------|-----------|-----------|----------------|-----------------------|----------|----------------|----------|--------------|-------|
| norganics by Compe Batch 2406040 - B4F12 | | .5 - Qual | ity Conti | ol | | | | | | |
| Calibration Check (24) | | | | Pren | ared: 06/ | 12/24 4 | Analyzed: | 06/13/24 | ı | |
| Lead | 201000 | | ng/l | 200000 | arcar oo _i | 101 | 90-110 | 00/15/2 | • | |
| Manganese | 484000 | | ng/l | 500000 | | 96.7 | 90-110 | | | |
| Molybdenum | 51100 | | ng/l | 50000 | | 102 | 90-110 | | | |
| Nickel | 116000 | | ng/l | 120000 | | 96.8 | 90-110 | | | |
| Selenium | 19900 | | ng/l | 20000 | | 99.6 | 90-110 | | | |
| Thallium | 475 | | ng/l | 500.00 | | 94.9 | 90-110 | | | |
| Vanadium | 19800 | | ng/l | 20000 | | 98.9 | 90-110 | | | |
| Zinc | 493000 | | ng/l | 500000 | | 98.5 | 90-110 | | | |
| High Cal Check (2406) | | | | | ared & A | | 06/12/24 | | | |
| Antimony | 40000 | | ng/l | 40000 | | 99.9 | 95-105 | | | |
| Arsenic | 40100 | | ng/l | 40000 | | 100 | 95-105 | | | |
| Barium | 399000 | | ng/l | 400000 | | 99.8 | 95-105 | | | |
| Beryllium | 10100 | | ng/l | 10000 | | 101 | 95-105 | | | |
| Cadmium | 39500 | | ng/l | 40000 | | 98.8 | 95-105 | | | |
| Chromium | 477000 | | ng/l | 480000 | | 99.3 | 95-105 | | | |
| Cobalt | 99500 | | ng/l | 100000 | | 99.5 | 95-105 | | | |
| Copper | 3.94E6 | | ng/l | 4.0000E6 | | 98.4 | 95-105 | | | |
| Lead | 399000 | | ng/l | 400000 | | 99.7 | 95-105 | | | |
| Manganese | 1.00E6 | | ng/l | 1.0000E6 | | 100 | 95-105 | | | |
| Molybdenum | 99900 | | ng/l | 100000 | | 99.9 | 95-105 | | | |
| Nickel | 238000 | | ng/l | 240000 | | 99.1 | 95-105 | | | |
| Selenium | 39900 | | ng/l | 40000 | | 99.7 | 95-105 | | | |
| Thallium | 999 | | ng/l | 1000.0 | | 99.9 | 95-105 | | | |
| Vanadium | 40000 | | ng/l | 40000 | | 100 | 95-105 | | | |
| Zinc | 987000 | | ng/l | 1.0000E6 | | 98.7 | 95-105 | | | |
| Initial Cal Blank (2406 | 6040-ICB1) | | | Prep | ared & A | nalyzed: | 06/12/24 | | | |
| Antimony | 0.136 | | ng/l | | | | | | | |
| Arsenic | -0.672 | | ng/l | | | | | | | U |
| Barium | 0.469 | | ng/l | | | | | | | |
| Beryllium | -0.0879 | | ng/l | | | | | | | U |
| Cadmium | 0.0629 | | ng/l | | | | | | | |
| Chromium | 1.05 | | ng/l | | | | | | | |
| Cobalt | 0.293 | | ng/l | | | | | | | |
| Copper | 262 | | ng/l | | | | | | | |
| Lead | -2.34 | | ng/l | | | | | | I | U |
| Manganese | 4.08 | | ng/l | | | | | | | |
| Molybdenum | 7.06 | | ng/l | | | | | | | |
| Nickel | 0.280 | | ng/l | | | | | | | |



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: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------|-------------------|-------------|---------|----------------|------------------|----------|----------------|-----|--------------|-------|
| Inorganics by Compen | dium Method IO-3 | .5 - Qualit | y Conti | rol | | | | | | |
| Batch 2406040 - B4F120 | | _ | | | | | | | | |
| Initial Cal Blank (24060 | 040-ICB1) Continu | | | Prep | ared & A | nalyzed: | 06/12/24 | | | |
| Selenium | 4.99 | | ng/l | | | <u> </u> | | | | |
| Thallium | 0.743 | | ng/l | | | | | | | |
| Vanadium | -17.1 | | ng/l | | | | | | | U |
| Zinc | 301 | | ng/l | | | | | | | |
| Initial Cal Check (2406) | 040-ICV1) | | | Prep | ared & A | nalyzed: | 06/12/24 | | | |
| Antimony | 19200 | | ng/l | 20000 | | 96.0 | 90-110 | | | |
| Arsenic | 19100 | | ng/l | 20000 | | 95.3 | 90-110 | | | |
| Barium | 193000 | | ng/l | 200000 | | 96.6 | 90-110 | | | |
| Beryllium | 5250 | | ng/l | 5000.0 | | 105 | 90-110 | | | |
| Cadmium | 20100 | | ng/l | 20000 | | 101 | 90-110 | | | |
| Chromium | 234000 | | ng/l | 240000 | | 97.7 | 90-110 | | | |
| Cobalt | 47600 | | ng/l | 50000 | | 95.2 | 90-110 | | | |
| Copper | 1.98E6 | | ng/l | 2.0000E6 | | 99.0 | 90-110 | | | |
| Lead | 193000 | | ng/l | 200000 | | 96.6 | 90-110 | | | |
| Manganese | 489000 | | ng/l | 500000 | | 97.9 | 90-110 | | | |
| Molybdenum | 48400 | | ng/l | 50000 | | 96.7 | 90-110 | | | |
| Nickel | 118000 | | ng/l | 120000 | | 98.1 | 90-110 | | | |
| Selenium | 19700 | | ng/l | 20000 | | 98.4 | 90-110 | | | |
| Thallium | 484 | | ng/l | 500.00 | | 96.8 | 90-110 | | | |
| Vanadium | 19600 | | ng/l | 20000 | | 97.8 | 90-110 | | | |
| Zinc | 512000 | | ng/l | 500000 | | 102 | 90-110 | | | |
| Interference Check A (2 | 2406040-IFA1) | | | Prep | ared & A | nalyzed: | 06/12/24 | | | |
| 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 | 316000 | | ng/l | 300000 | | 105 | 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 |

Eastern Research Group



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: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------|--------------|----------|------------|----------------|------------------|--------------|----------------|-----|--------------|-------|
| norganics by Compendium | Method IO-3 | .5 - Qua | lity Contr | ol | | | | | | |
| Batch 2406040 - B4F1206 | | | | | | | | | | |
| Interference Check B (24060 |)40-IFB1) | | | Prepa | ared & A | nalyzed: | 06/12/24 | | | |
| Antimony | 20400 | | ng/l | 20000 | | 102 | 80-120 | | | |
| Arsenic | 20400 | | ng/l | 20000 | | 102 | 80-120 | | | |
| Barium | 203000 | | ng/l | 200000 | | 101 | 80-120 | | | |
| Beryllium | 4550 | | ng/l | 5000.0 | | 90.9 | 80-120 | | | |
| Cadmium | 19800 | | ng/l | 20000 | | 98.8 | 80-120 | | | |
| Chromium | 231000 | | ng/l | 240000 | | 96.2 | 80-120 | | | |
| Cobalt | 49300 | | ng/l | 50000 | | 98.7 | 80-120 | | | |
| Copper | 1.88E6 | | ng/l | 2.0000E6 | | 93.8 | 80-120 | | | |
| Lead | 210000 | | ng/l | 200000 | | 105 | 80-120 | | | |
| Manganese | 503000 | | ng/l | 500000 | | 101 | 80-120 | | | |
| Molybdenum | 372000 | | ng/l | 350000 | | 106 | 80-120 | | | |
| Nickel | 115000 | | ng/l | 120000 | | 96.2 | 80-120 | | | |
| Selenium | 18600 | | ng/l | 20000 | | 92.9 | 80-120 | | | |
| Thallium | 531 | | ng/l | 500.00 | | 106 | 80-120 | | | |
| Vanadium | 19500 | | ng/l | 20000 | | 97.7 92.7 | 80-120 | | | |
| Zinc | 463000 | | ng/l | 500000 | | 92.7 | 80-120 | | | |
| Batch 2406048 - B4F1206 | | | | | | | | | | |
| Calibration Blank (2406048- | CCB1) | | | Prepa | ared & A | nalyzed: | 06/13/24 | • | | |
| Arsenic | -0.878 | | ng/l | | | | | | l | U |
| Calibration Blank (2406048- | CCB2) | | | Prepa | ared & A | nalyzed: | 06/13/24 | | | |
| Arsenic | -0.871 | | ng/l | | | | | | | U |
| Calibration Check (2406048- | CCV1) | | | Prepa | ared & A | nalyzed: | 06/13/24 | | | |
| Arsenic | 19900 | | ng/l | 20000 | | 99.6 | 90-110 | | | |
| Calibration Check (2406048- | CCV2) | | . | Prepa | ared & A | nalyzed: | 06/13/24 | | | |
| Arsenic | 20100 | | ng/l | 20000 | | 101 | 90-110 | | | |
| High Cal Check (2406048-HC | `V1) | | 3, | Pren | ared & A | nalvzed: | 06/13/24 | | | |
| Arsenic | 39700 | | ng/l | 40000 | urcu & A | 99.2 | 95-105 | | | |
| | | | 119/1 | | arad 9. A | JJ | 06/13/24 | | | |
| Initial Cal Blank (2406048-I | | | 11 | riep | areu & A | naiyzeu. | 00/13/24 | | | |
| Arsenic | 0.923 | | ng/l | ь. | | | 06/40/04 | | | |
| Initial Cal Check (2406048-I | _ | | | • | ared & A | | 06/13/24 | • | | |
| Arsenic | 19400 | | ng/l | 20000 | | 97.2 | 90-110 | | | |
| Interference Check A (24060 |)48-IFA1) | | | Prepa | ared & A | nalyzed: | 06/13/24 | • | | |
| Arsenic | 0.00 | | ng/l | | | | 80-120 | | | U |
| Interference Check B (24060 |)48-IFB1) | | | Prepa | ared & A | nalyzed: | 06/13/24 | | | |
| Arsenic | 20200 | | ng/l | 20000 | | 101 | 80-120 | | | |
| Batch B4F1206 - ICP-MS Extra | ection | | | | | | | | | |

Eastern Research Group



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: 06/19/24 13:12

SUBMITTED: 06/10/24

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 Mo | ethod IO-3 | 8.5 - Qual | ity Contro | ol | | | | | | |
| Batch B4F1206 - ICP-MS Extraction | | | | | | | | | | |
| Blank (B4F1206-BLK1) | | | | Prep | ared & A | nalyzed: | 06/12/24 | | | |
| Antimony | ND | 0.0386 | ng/m³ Air | | | - | | | | SL, U |
| Arsenic | ND | 0.00937 | ng/m³ Air | | | | | | | U |
| Barium | ND | 1.07 | ng/m³ Air | | | | | | | QB-01, U |
| Beryllium | ND | 0.00320 | ng/m³ Air | | | | | | | U |
| Cadmium | ND | 0.0741 | ng/m³ Air | | | | | | | U |
| Chromium | ND | 2.21 | ng/m³ Air | | | | | | | U |
| Cobalt | ND | 0.0436 | ng/m³ Air | | | | | | | U |
| Copper | ND | 2.63 | ng/m³ Air | | | | | | | U |
| Lead | ND | 0.214 | ng/m³ Air | | | | | | | U |
| Manganese | ND | 1.89 | ng/m³ Air | | | | | | | U |
| Molybdenum | ND | 0.359 | ng/m³ Air | | | | | | | U |
| Nickel | ND | 0.652 | ng/m³ Air | | | | | | | U |
| Selenium | ND | 0.00896 | ng/m³ Air | | | | | | | U |
| Thallium | ND | 5.89E-4 | ng/m³ Air | | | | | | | U |
| Vanadium | ND | 0.0529 | ng/m³ Air | | | | | | | U |
| Zinc | ND | 76.8 | ng/m³ Air | | | | | | | U |
| LCS (B4F1206-BS1) | | | | Prep | ared & A | nalyzed: | 06/12/24 | | | |
| Antimony | 0.778 | 0.0386 | ng/m³ Air | 1.3829 | | 56.2 | 80-120 | | | SL |
| Arsenic | 2.70 | 0.00937 | ng/m³ Air | 2.7658 | | 97.8 | 80-120 | | | |
| Barium | 29.3 | 1.07 | ng/m³ Air | 27.658 | | 106 | 80-120 | | | QB-01 |
| Beryllium | 1.33 | 0.00320 | ng/m³ Air | 1.3829 | | 96.0 | 80-120 | | | |
| Cadmium | 1.33 | 0.0741 | ng/m³ Air | 1.3829 | | 96.3 | 80-120 | | | |
| Chromium | 15.1 | 2.21 | ng/m³ Air | 13.829 | | 109 | 80-120 | | | |
| Cobalt | 1.38 | 0.0436 | ng/m³ Air | 1.3829 | | 99.7 | 80-120 | | | |
| Copper | 29.4 | 2.63 | ng/m³ Air | 27.658 | | 106 | 80-120 | | | |
| Lead | 13.9 | 0.214 | ng/m³ Air | 13.829 | | 101 | 80-120 | | | |
| Manganese | 8.48 | 1.89 | ng/m³ Air | 8.2975 | | 102 | 80-120 | | | |
| Molybdenum | 1.53 | 0.359 | ng/m³ Air | 1.3829 | | 111 | 80-120 | | | |
| Nickel | 3.21 | 0.652 | ng/m³ Air | | | 116 | 80-120 | | | |
| Selenium | 2.71 | 0.00896 | ng/m³ Air | 2.7658 | | 97.9 | 80-120 | | | |
| Thallium | 0.136 | 5.89E-4 | ng/m³ Air | 0.13829 | | 98.2 | 80-120 | | | |
| Vanadium | 2.73 | 0.0529 | ng/m³ Air | | | 98.8 | 80-120 | | | |
| Zinc | 128 | 76.8 | ng/m³ Air | 82.975 | | 154 | 80-120 | | | |
| LCS (B4F1206-BS2) | | | | Prep | ared & A | nalyzed: | 06/12/24 | | | |
| Antimony | 0.795 | 0.0386 | ng/m³ Air | 1.3829 | | 57.5 | 80-120 | | | SL |
| Arsenic | 2.70 | 0.00937 | ng/m³ Air | 2.7658 | | 97.7 | 80-120 | | | |
| Barium | 29.1 | 1.07 | ng/m³ Air | 27.658 | | 105 | 80-120 | | | QB-01 |
| Beryllium | 1.34 | 0.00320 | ng/m³ Air | 1.3829 | | 97.1 | 80-120 | | | |

Eastern Research Group



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: 06/19/24 13:12

SUBMITTED: 06/10/24

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 Met | hod IO-3 | 8.5 - Qua | lity Contro | ol | | | | | | |
| Batch B4F1206 - ICP-MS Extraction | | | | | | | | | | |
| LCS (B4F1206-BS2) Continued | | | | Prep | ared & A | nalvzed: | 06/12/24 | | | |
| Cadmium | 1.32 | 0.0741 | ng/m³ Air | 1.3829 | | 95.4 | 80-120 | | | |
| Chromium | 15.0 | 2.21 | ng/m³ Air | 13.829 | | 109 | 80-120 | | | |
| Cobalt | 1.35 | 0.0436 | ng/m³ Air | 1.3829 | | 97.9 | 80-120 | | | |
| Copper | 28.6 | 2.63 | ng/m³ Air | 27.658 | | 103 | 80-120 | | | |
| Lead | 14.0 | 0.214 | ng/m³ Air | | | 101 | 80-120 | | | |
| Manganese | 8.46 | 1.89 | ng/m³ Air | 8.2975 | | 102 | 80-120 | | | |
| Molybdenum | 1.50 | 0.359 | ng/m³ Air | 1.3829 | | 108 | 80-120 | | | |
| Nickel | 3.14 | 0.652 | ng/m³ Air | 2.7658 | | 114 | 80-120 | | | |
| Selenium | 2.72 | 0.00896 | ng/m³ Air | 2.7658 | | 98.5 | 80-120 | | | |
| Thallium | 0.136 | 5.89E-4 | ng/m³ Air | | | 98.2 | 80-120 | | | |
| Vanadium | 2.73 | 0.0529 | ng/m³ Air | 2.7658 | | 98.6 | 80-120 | | | |
| Zinc | 136 | 76.8 | ng/m³ Air | 82.975 | | 164 | 80-120 | | | |
| Duplicate (B4F1206-DUP1) | S | ource: 40 | 61041-12 | | ared & A | nalyzed: | 06/12/24 | | | |
| Antimony | 0.0641 | 0.0337 | ng/m³ Air | | 0.0562 | | | 13.1 | 10 | SL |
| Arsenic | 0.184 | 0.00819 | ng/m³ Air | | 0.187 | | | 1.38 | 10 | |
| Barium | 3.11 | 0.935 | ng/m³ Air | | 3.23 | | | 3.69 | 10 | QB-01 |
| Beryllium | 0.0315 | 0.00280 | ng/m³ Air | | 0.0321 | | | 1.73 | 10 | |
| Cadmium | ND | 0.0647 | ng/m³ Air | | ND | | | | 10 | U |
| Chromium | 2.43 | 1.93 | ng/m³ Air | | 2.50 | | | 3.19 | 10 | |
| Cobalt | 0.409 | 0.0381 | ng/m³ Air | | 0.436 | | | 6.41 | 10 | |
| Copper | 39.3 | 2.30 | ng/m³ Air | | 41.4 | | | 5.08 | 10 | |
| Lead | 0.394 | 0.187 | ng/m³ Air | | 0.402 | | | 2.00 | 10 | |
| Manganese | 10.2 | 1.65 | ng/m³ Air | | 10.7 | | | 5.03 | 10 | |
| Molybdenum | 2.17 | 0.314 | ng/m³ Air | | 2.19 | | | 0.827 | 10 | |
| Nickel | 1.29 | 0.570 | ng/m³ Air | | 1.31 | | | 1.66 | 10 | |
| Selenium | 0.162 | 0.00783 | ng/m³ Air | | 0.172 | | | 5.90 | 10 | |
| Thallium | 0.00131 | 5.15E-4 | ng/m³ Air | | 0.00138 | | | 5.54 | 10 | |
| Vanadium | 0.946 | 0.0462 | ng/m³ Air | | 1.00 | | | 5.97 | 10 | |
| Zinc | ND | 67.1 | ng/m³ Air | | ND | | | | 10 | U |
| Duplicate (B4F1206-DUP2) | S | ource: 40 | 61041-05 | Prep | ared & A | nalyzed: | 06/12/24 | | | |
| Antimony | 0.354 | 0.0330 | ng/m³ Air | | 0.389 | | | 9.42 | 10 | SL |
| Arsenic | 11.8 | 0.00801 | ng/m³ Air | | 12.3 | | | 4.08 | 10 | |
| Barium | 13.2 | 0.915 | ng/m³ Air | | 13.8 | | | 3.79 | 10 | QB-01 |
| Beryllium | 0.0312 | 0.00274 | ng/m³ Air | | 0.0301 | | | 3.86 | 10 | |
| Cadmium | ND | 0.0634 | ng/m³ Air | | ND | | | | 10 | U |
| Chromium | 8.30 | 1.89 | ng/m³ Air | | 8.71 | | | 4.82 | 10 | |
| Cobalt | 1.40 | 0.0373 | ng/m³ Air | | 1.43 | | | 2.39 | 10 | |
| Copper | 248 | 2.25 | ng/m³ Air | | 239 | | | 3.72 | 10 | |

Eastern Research Group



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: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

| Analyte | Result | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|----------------------------------|------------|-----------|-------------|----------------|------------------|----------|----------------|----------|--------------|-------|
| norganics by Compendium Me | ethod IO-3 | 3.5 - Qua | lity Contro | | | | | | | |
| Batch B4F1206 - ICP-MS Extractio | n | | | | | | | | | |
| Duplicate (B4F1206-DUP2) Cont | tinued S | ource: 40 | 61041-05 | Prep | ared & A | nalyzed: | : 06/12/24 | | | |
| Lead | 2.02 | 0.183 | ng/m³ Air | | 2.08 | <u> </u> | | 3.18 | 10 | |
| Manganese | 42.7 | 1.62 | ng/m³ Air | | 43.7 | | | 2.42 | 10 | |
| Molybdenum | 10.6 | 0.307 | ng/m³ Air | | 10.3 | | | 3.29 | 10 | |
| Nickel | 3.37 | 0.558 | ng/m³ Air | | 3.53 | | | 4.61 | 10 | |
| Selenium | 0.271 | 0.00766 | ng/m³ Air | | 0.281 | | | 3.41 | 10 | |
| Thallium | 0.00325 | 5.04E-4 | ng/m³ Air | | 0.00341 | | | 4.81 | 10 | |
| Vanadium | 4.60 | 0.0452 | ng/m³ Air | | 4.76 | | | 3.40 | 10 | |
| Zinc | ND | 65.7 | ng/m³ Air | | ND | | | | 10 | U |
| Duplicate (B4F1206-DUP3) | S | ource: 40 | 61041-20 | Prep | ared: 06/ | 12/24 | Analyzed: | 06/13/24 | | |
| Antimony | 0.323 | 0.0314 | ng/m³ Air | | 0.323 | | | 0.0831 | 10 | SL |
| Arsenic | 1.22 | 0.00761 | ng/m³ Air | | 1.22 | | | 0.269 | 10 | |
| Barium | 8.78 | 0.870 | ng/m³ Air | | 8.71 | | | 0.833 | 10 | QB-01 |
| Beryllium | 0.0190 | 0.00260 | ng/m³ Air | | 0.0201 | | | 5.45 | 10 | |
| Cadmium | ND | 0.0602 | ng/m³ Air | | ND | | | | 10 | U |
| Chromium | 3.15 | 1.80 | ng/m³ Air | | 3.14 | | | 0.423 | 10 | |
| Cobalt | 0.681 | 0.0354 | ng/m³ Air | | 0.681 | | | 0.0298 | 10 | |
| Copper | 53.6 | 2.14 | ng/m³ Air | | 53.4 | | | 0.353 | 10 | |
| Lead | 1.71 | 0.174 | ng/m³ Air | | 1.70 | | | 0.762 | 10 | |
| Manganese | 19.0 | 1.54 | ng/m³ Air | | 19.0 | | | 0.349 | 10 | |
| Molybdenum | 2.31 | 0.292 | ng/m³ Air | | 2.30 | | | 0.528 | 10 | |
| Nickel | 2.84 | 0.530 | ng/m³ Air | | 2.84 | | | 0.115 | 10 | |
| Selenium | 0.258 | 0.00728 | ng/m³ Air | | 0.249 | | | 3.44 | 10 | |
| Thallium | 0.00280 | 4.79E-4 | ng/m³ Air | | 0.00281 | | | 0.366 | 10 | |
| Vanadium | 1.95 | 0.0430 | ng/m³ Air | | 1.95 | | | 0.346 | 10 | |
| Zinc | ND | 62.4 | ng/m³ Air | | ND | | | | 10 | U |
| Duplicate (B4F1206-DUP4) | S | ource: 40 | 61041-26 | Prep | ared: 06/ | /12/24 | Analyzed: | 06/13/24 | | |
| Antimony | 0.124 | 0.0359 | ng/m³ Air | | 0.125 | | | 0.982 | 10 | SL |
| Arsenic | 0.612 | 0.00871 | ng/m³ Air | | 0.613 | | | 0.309 | 10 | |
| Barium | 5.66 | 0.995 | ng/m³ Air | | 5.67 | | | 0.146 | 10 | QB-01 |
| Beryllium | 0.0176 | 0.00297 | ng/m³ Air | | 0.0169 | | | 4.28 | 10 | |
| Cadmium | ND | 0.0689 | ng/m³ Air | | ND | | | | 10 | U |
| Chromium | 2.89 | 2.05 | ng/m³ Air | | 2.93 | | | 1.19 | 10 | |
| Cobalt | 0.506 | 0.0405 | ng/m³ Air | | 0.510 | | | 0.816 | 10 | |
| Copper | 28.0 | 2.44 | ng/m³ Air | | 28.1 | | | 0.330 | 10 | |
| Lead | 1.18 | 0.199 | ng/m³ Air | | 1.20 | | | 1.15 | 10 | |
| Manganese | 18.5 | 1.76 | ng/m³ Air | | 18.6 | | | 0.764 | 10 | |
| Molybdenum | 1.48 | 0.334 | ng/m³ Air | | 1.49 | | | 0.806 | 10 | |
| Nickel | 1.63 | 0.606 | ng/m³ Air | | 1.64 | | | 0.695 | 10 | |

Eastern Research Group



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: 06/19/24 13:12

SUBMITTED: 06/10/24

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 Met | hod IO-3 | 3.5 - Qua | lity Contro | ol | | | | | | |
| Batch B4F1206 - ICP-MS Extraction | | | | | | | | | | |
| Duplicate (B4F1206-DUP4) Contir | nued S | ource: 40 | 61041-26 | Prep | ared: 06/ | /12/24 | Analyzed: | 06/13/24 | | |
| Selenium | 0.310 | 0.00833 | ng/m³ Air | | 0.314 | - | • | 1.29 | 10 | |
| Thallium | 0.00362 | 5.48E-4 | ng/m³ Air | | 0.00375 | | | 3.73 | 10 | |
| Vanadium | 1.73 | 0.0492 | ng/m³ Air | | 1.75 | | | 0.788 | 10 | |
| Zinc | ND | 71.4 | ng/m³ Air | | ND | | | | 10 | U |
| Duplicate (B4F1206-DUP5) | S | ource: 40 | 61041-05R | Prep | ared: 06/ | /12/24 | Analyzed: | 06/13/24 | | |
| Arsenic | 11.6 | 0.0160 | ng/m³ Air | | 12.0 | | | 3.82 | 10 | D |
| Matrix Spike (B4F1206-MS1) | S | ource: 40 | 61041-12 | Prep | ared & A | nalyzed | l: 06/12/24 | ļ | | |
| Antimony | 0.655 | 0.0337 | ng/m³ Air | 1.2084 | 0.0562 | 49.5 | 80-120 | | | SL |
| Arsenic | 2.41 | 0.00819 | ng/m³ Air | 2.4168 | 0.187 | 91.8 | 80-120 | | | |
| Barium | 26.9 | 0.935 | ng/m³ Air | 24.168 | 3.23 | 98.0 | 80-120 | | | QB-01 |
| Beryllium | 1.10 | 0.00280 | ng/m³ Air | 1.2084 | 0.0321 | 88.7 | 80-120 | | | - |
| Cadmium | 1.11 | 0.0647 | ng/m³ Air | 1.2084 | ND | 92.2 | 80-120 | | | |
| Chromium | 14.1 | 1.93 | ng/m³ Air | 12.084 | 2.50 | 96.3 | 80-120 | | | |
| Cobalt | 1.56 | 0.0381 | ng/m³ Air | 1.2084 | 0.436 | 93.4 | 80-120 | | | |
| Copper | 64.2 | 2.30 | ng/m³ Air | 24.168 | 41.4 | 94.4 | 80-120 | | | |
| Lead | 12.2 | 0.187 | ng/m³ Air | 12.084 | 0.402 | 97.8 | 80-120 | | | |
| Manganese | 17.6 | 1.65 | ng/m³ Air | 7.2504 | 10.7 | 95.3 | 80-120 | | | |
| Molybdenum | 3.31 | 0.314 | ng/m³ Air | 1.2084 | 2.19 | 92.4 | 80-120 | | | |
| Nickel | 3.65 | 0.570 | ng/m³ Air | 2.4168 | 1.31 | 96.5 | 80-120 | | | |
| Selenium | 2.40 | 0.00783 | ng/m³ Air | 2.4168 | 0.172 | 92.2 | 80-120 | | | |
| Thallium | 0.113 | 5.15E-4 | ng/m³ Air | 0.12084 | 0.00138 | 92.4 | 80-120 | | | |
| Vanadium | 3.24 | 0.0462 | ng/m³ Air | 2.4168 | 1.00 | 92.6 | 80-120 | | | |
| Zinc | 103 | 67.1 | ng/m³ Air | 72.504 | ND | 142 | 80-120 | | | |
| Matrix Spike (B4F1206-MS2) | S | ource: 40 | 61041-05 | Prep | ared & A | nalyzed | l: 06/12/24 | ļ | | |
| Antimony | 0.944 | 0.0330 | ng/m³ Air | 1.1826 | 0.389 | 46.9 | 80-120 | | | SL |
| Arsenic | 14.4 | 0.00801 | ng/m³ Air | 2.3652 | 12.3 | 92.6 | 80-120 | | | |
| Barium | 36.8 | 0.915 | ng/m³ Air | 23.652 | 13.8 | 97.3 | 80-120 | | | QB-01 |
| Beryllium | 1.12 | 0.00274 | ng/m³ Air | 1.1826 | 0.0301 | 92.0 | 80-120 | | | |
| Cadmium | 1.11 | 0.0634 | ng/m³ Air | 1.1826 | ND | 93.8 | 80-120 | | | |
| Chromium | 19.5 | 1.89 | ng/m³ Air | 11.826 | 8.71 | 91.3 | 80-120 | | | |
| Cobalt | 2.54 | 0.0373 | ng/m³ Air | 1.1826 | 1.43 | 93.5 | 80-120 | | | |
| Copper | 263 | 2.25 | ng/m³ Air | 23.652 | 239 | 98.7 | 80-120 | | | |
| Lead | 13.7 | 0.183 | ng/m³ Air | 11.826 | 2.08 | 98.3 | 80-120 | | | |
| Manganese | 50.5 | 1.62 | ng/m³ Air | 7.0955 | 43.7 | 96.0 | 80-120 | | | |
| Molybdenum | 11.3 | 0.307 | ng/m³ Air | 1.1826 | 10.3 | 87.9 | 80-120 | | | |
| Nickel | 5.62 | 0.558 | ng/m³ Air | 2.3652 | 3.53 | 88.7 | 80-120 | | | |
| Selenium | 2.41 | 0.00766 | ng/m³ Air | 2.3652 | 0.281 | 90.0 | 80-120 | | | |
| Thallium | 0.109 | 5.04E-4 | ng/m³ Air | 0.11826 | 0.00341 | 89.4 | 80-120 | | | |

Eastern Research Group



Units

Result

PQL

Tetra Tech, Inc.

Analyte

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

Source

Result

Spike Level

SITE CODE: Lahaina fires

%REC

%REC

Limits

RPD

RPD Limit

Notes

| Matrix Spike (B4F1206-MS2) Con | tinued S | ource: 40 | 61041-05 | Prep | oared & Ar | nalyzed | l: 06/12/2 | 1 | | |
|--------------------------------|----------|-----------|-----------|---------|------------|---------|------------|----------|----|-------|
| Vanadium | 6.98 | 0.0452 | ng/m³ Air | 2.3652 | 4.76 | 94.2 | 80-120 | | | |
| Zinc | 128 | 65.7 | ng/m³ Air | 70.955 | ND | 180 | 80-120 | | | |
| Matrix Spike (B4F1206-MS3) | S | ource: 40 | 61041-05R | Prep | pared: 06/ | 12/24 | Analyzed: | 06/13/24 | | |
| Arsenic | 14.0 | 0.0160 | ng/m³ Air | 2.3652 | 12.0 | 84.2 | 80-120 | | | D |
| Matrix Spike Dup (B4F1206-MSD) | 1) S | ource: 40 | 61041-12 | Prep | oared & Ar | nalyzed | l: 06/12/2 | 1 | | |
| Antimony | 0.664 | 0.0337 | ng/m³ Air | 1.2084 | 0.0562 | 50.3 | 80-120 | 1.40 | 20 | SL |
| Arsenic | 2.48 | 0.00819 | ng/m³ Air | 2.4168 | 0.187 | 94.9 | 80-120 | 3.00 | 20 | |
| Barium | 27.9 | 0.935 | ng/m³ Air | 24.168 | 3.23 | 102 | 80-120 | 3.49 | 20 | QB-01 |
| Beryllium | 1.18 | 0.00280 | ng/m³ Air | 1.2084 | 0.0321 | 94.8 | 80-120 | 6.43 | 20 | |
| Cadmium | 1.14 | 0.0647 | ng/m³ Air | 1.2084 | ND | 94.5 | 80-120 | 2.42 | 20 | |
| Chromium | 14.6 | 1.93 | ng/m³ Air | | 2.50 | 99.7 | 80-120 | 2.86 | 20 | |
| Cobalt | 1.62 | 0.0381 | ng/m³ Air | 1.2084 | 0.436 | 97.9 | 80-120 | 3.47 | 20 | |
| Copper | 64.5 | 2.30 | ng/m³ Air | 24.168 | 41.4 | 95.9 | 80-120 | 0.551 | 20 | |
| Lead | 12.7 | 0.187 | ng/m³ Air | 12.084 | 0.402 | 101 | 80-120 | 3.46 | 20 | |
| Manganese | 18.4 | 1.65 | ng/m³ Air | 7.2504 | 10.7 | 106 | 80-120 | 4.15 | 20 | |
| Molybdenum | 3.42 | 0.314 | ng/m³ Air | 1.2084 | 2.19 | 102 | 80-120 | 3.37 | 20 | |
| Nickel | 3.72 | 0.570 | ng/m³ Air | 2.4168 | 1.31 | 99.6 | 80-120 | 2.01 | 20 | |
| Selenium | 2.44 | 0.00783 | ng/m³ Air | 2.4168 | 0.172 | 93.9 | 80-120 | 1.68 | 20 | |
| Thallium | 0.118 | 5.15E-4 | ng/m³ Air | 0.12084 | 0.00138 | 96.4 | 80-120 | 4.25 | 20 | |
| Vanadium | 3.36 | 0.0462 | ng/m³ Air | 2.4168 | 1.00 | 97.3 | 80-120 | 3.42 | 20 | |
| Zinc | 101 | 67.1 | ng/m³ Air | 72.504 | ND | 139 | 80-120 | 1.68 | 20 | |
| Matrix Spike Dup (B4F1206-MSD) | 2) S | ource: 40 | 61041-05 | Prep | oared & Ar | nalyzed | l: 06/12/2 | 1 | | |
| Antimony | 1.01 | 0.0330 | ng/m³ Air | 1.1826 | 0.389 | 52.2 | 80-120 | 6.44 | 20 | SL |
| Arsenic | 14.4 | 0.00801 | ng/m³ Air | 2.3652 | 12.3 | 92.2 | 80-120 | 0.0577 | 20 | |
| Barium | 37.3 | 0.915 | ng/m³ Air | 23.652 | 13.8 | 99.7 | 80-120 | 1.48 | 20 | QB-01 |
| Beryllium | 1.18 | 0.00274 | ng/m³ Air | | 0.0301 | 97.3 | 80-120 | 5.42 | 20 | |
| Cadmium | 1.11 | 0.0634 | ng/m³ Air | 1.1826 | ND | 93.7 | 80-120 | 0.0818 | 20 | |
| Chromium | 19.6 | 1.89 | ng/m³ Air | 11.826 | 8.71 | 92.0 | 80-120 | 0.469 | 20 | |
| Cobalt | 2.56 | 0.0373 | ng/m³ Air | 1.1826 | 1.43 | 95.5 | 80-120 | 0.944 | 20 | |
| Copper | 268 | 2.25 | ng/m³ Air | 23.652 | 239 | 121 | 80-120 | 2.02 | 20 | QM-4X |
| Lead | 13.7 | 0.183 | ng/m³ Air | 11.826 | 2.08 | 97.9 | 80-120 | 0.328 | 20 | |
| Manganese | 51.2 | 1.62 | ng/m³ Air | 7.0955 | 43.7 | 105 | 80-120 | 1.27 | 20 | |
| Molybdenum | 11.7 | 0.307 | ng/m³ Air | 1.1826 | 10.3 | 117 | 80-120 | 2.96 | 20 | |
| Nickel | 5.64 | 0.558 | ng/m³ Air | 2.3652 | 3.53 | 89.5 | 80-120 | 0.316 | 20 | |
| Selenium | 2.44 | 0.00766 | ng/m³ Air | 2.3652 | 0.281 | 91.1 | 80-120 | 1.04 | 20 | |
| Thallium | 0.110 | 5.04E-4 | ng/m³ Air | 0.11826 | 0.00341 | 90.4 | 80-120 | 1.07 | 20 | |
| Vanadium | 7.00 | 0.0452 | ng/m³ Air | 2.3652 | 4.76 | 94.9 | 80-120 | 0.252 | 20 | |
| Zinc | 123 | 65.7 | ng/m³ Air | 70.955 | ND | 173 | 80-120 | 4.08 | 20 | |

Eastern Research Group



Units

Result

PQL

Tetra Tech, Inc.

Analyte

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

FILE #: 4205.00.003.001

REPORTED: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

Source

Result

Spike Level

SITE CODE: Lahaina fires

%REC

%REC

Limits

RPD

RPD

Limit

Notes

| Arsenic Post Spike (B4F1206-PS1) Antimony Arsenic Barium Beryllium | 14.0 S 0.294 1.33 5.64 | 0.0160 ource: 40 0.0337 | | | 12.0 | 85.7 | 80-120 | 0.252 | 20 | D |
|--|---|-------------------------------|-----------|-----------|-----------|----------|-------------|----------|----|------------|
| Antimony Arsenic Barium Beryllium | 0.294 1.33 | 0.0337 | | Dron | | | | | | |
| Arsenic Barium Beryllium | 1.33 | | | <u> </u> | | • | 06/12/24 | | | |
| Barium Beryllium | | | ng/m³ Air | 0.24168 | 0.0562 | 98.4 | 75-125 | | | SL |
| Beryllium | 5.64 | 0.00819 | ng/m³ Air | 1.2084 | 0.187 | 94.6 | 75-125 | | | |
| • | | 0.935 | ng/m³ Air | | 3.23 | 100 | 75-125 | | | QB-01 |
| | 0.264 | 0.00280 | ng/m³ Air | 0.24168 | 0.0321 | 96.0 | 75-125 | | | |
| Cadmium | 0.128 | 0.0647 | ng/m³ Air | | ND | 106 | 75-125 | | | |
| Chromium | 3.64 | 1.93 | ng/m³ Air | | 2.50 | 94.2 | 75-125 | | | |
| Cobalt | 0.659 | 0.0381 | ng/m³ Air | | 0.436 | 92.5 | 75-125 | | | |
| Copper | 52.7 | 2.30 | ng/m³ Air | | 41.4 | 94.2 | 75-125 | | | |
| Lead | 24.3 | 0.187 | ng/m³ Air | 24.168 | 0.402 | 98.7 | 75-125 | | | |
| Manganese | 13.0 | 1.65 | ng/m³ Air | | 10.7 | 93.9 | 75-125 | | | |
| Molybdenum | 3.33 | 0.314 | ng/m³ Air | 1.2084 | 2.19 | 93.7 | 75-125 | | | |
| Nickel | 3.67 | 0.570 | ng/m³ Air | 2.4168 | 1.31 | 97.5 | 75-125 | | | |
| Selenium | 1.30 | 0.00783 | ng/m³ Air | | 0.172 | 93.2 | 75-125 | | | |
| Γhallium | 0.0613 | 5.15E-4 | ng/m³ Air | 6.0420E-2 | 0.00138 | 99.1 | 75-125 | | | |
| /anadium | 2.16 | 0.0462 | ng/m³ Air | 1.2084 | 1.00 | 95.6 | 75-125 | | | |
| Zinc | ND | 67.1 | ng/m³ Air | 24.168 | ND | | 75-125 | | | U |
| Post Spike (B4F1206-PS2) | S | ource: 40 | 61041-05 | Prep | ared & Ar | nalyzed: | 06/12/24 | | | |
| Antimony | 0.628 | 0.0330 | ng/m³ Air | 0.23652 | 0.389 | 101 | 75-125 | | | SL |
| Arsenic | 13.3 | 0.00801 | ng/m³ Air | 1.1826 | 12.3 | 88.8 | 75-125 | | | |
| Barium | 16.0 | 0.915 | ng/m³ Air | 2.3652 | 13.8 | 93.0 | 75-125 | | | QB-01 |
| Beryllium | 0.259 | 0.00274 | ng/m³ Air | 0.23652 | 0.0301 | 96.9 | 75-125 | | | |
| Cadmium | 0.165 | 0.0634 | ng/m³ Air | 0.11826 | ND | 139 | 75-125 | | | |
| Chromium | 9.62 | 1.89 | ng/m³ Air | 1.1826 | 8.71 | 77.4 | 75-125 | | | |
| Cobalt | 1.62 | 0.0373 | ng/m³ Air | 0.23652 | 1.43 | 80.6 | 75-125 | | | |
| Copper | 246 | 2.25 | ng/m³ Air | 11.826 | 239 | 54.5 | 75-125 | | | A-01, PS-0 |
| Lead | 25.4 | 0.183 | ng/m³ Air | 23.652 | 2.08 | 98.7 | 75-125 | | | |
| Manganese | 45.3 | 1.62 | ng/m³ Air | 2.3652 | 43.7 | 65.9 | 75-125 | | | A-01, PS-0 |
| Molybdenum | 11.2 | 0.307 | ng/m³ Air | 1.1826 | 10.3 | 79.6 | 75-125 | | | |
| Nickel | 5.71 | 0.558 | ng/m³ Air | 2.3652 | 3.53 | 92.4 | 75-125 | | | |
| Selenium | 1.35 | 0.00766 | ng/m³ Air | 1.1826 | 0.281 | 90.1 | 75-125 | | | |
| Thallium | 0.0602 | 5.04E-4 | ng/m³ Air | | 0.00341 | 96.0 | 75-125 | | | |
| Vanadium | 5.79 | 0.0452 | ng/m³ Air | 1.1826 | 4.76 | 87.4 | 75-125 | | | |
| Zinc | 80.7 | 65.7 | ng/m³ Air | 23.652 | ND | 341 | 75-125 | | | |
| Post Spike (B4F1206-PS3) | S | ource: 40 | 61041-05R | | ared: 06/ | 12/24 | Analyzed: (| 06/13/24 | | |
| Arsenic | 13.0 | 0.0160 | ng/m³ Air | | 12.0 | 80.2 | 75-125 | | | D |

Eastern Research Group



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: 06/19/24 13:12

SUBMITTED: 06/10/24

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 Met | | 3.5 - Qual | lity Contro | I | | | | | | |
| Batch B4F1206 - ICP-MS Extraction |) | | | | | | | | | |
| Dilution Check (B4F1206-SRL1) (| Continue(S | ource: 40 | 61041-12 | Prep | ared & A | nalyzed | : 06/12/24 | | | |
| Antimony | ND | 0.169 | ng/m³ Air | | ND | - | | | 10 | SL, U |
| Arsenic | 0.193 | 0.0409 | ng/m³ Air | | 0.187 | | | 3.16 | 10 | • |
| Barium | ND | 4.67 | ng/m³ Air | | ND | | | | 10 | QB-01, U |
| Beryllium | 0.0343 | 0.0140 | ng/m³ Air | | 0.0321 | | | 6.51 | 10 | |
| Cadmium | ND | 0.324 | ng/m³ Air | | ND | | | | 10 | U |
| Chromium | ND | 9.66 | ng/m³ Air | | ND | | | | 10 | U |
| Cobalt | 0.441 | 0.190 | ng/m³ Air | | 0.436 | | | 1.14 | 10 | |
| Copper | 42.3 | 11.5 | ng/m³ Air | | 41.4 | | | 2.35 | 10 | |
| Lead | ND | 0.935 | ng/m³ Air | | ND | | | | 10 | U |
| Manganese | 10.9 | 8.26 | ng/m³ Air | | 10.7 | | | 1.74 | 10 | |
| Molybdenum | 2.24 | 1.57 | ng/m³ Air | | 2.19 | | | 2.33 | 10 | |
| Nickel | ND | 2.85 | ng/m³ Air | | ND | | | | 10 | U |
| Selenium | 0.168 | 0.0391 | ng/m³ Air | | 0.172 | | | 2.48 | 10 | |
| Thallium | 0.00272 | 0.00257 | ng/m³ Air | | ND | | | 65.4 | 10 | |
| Vanadium | 1.04 | 0.231 | ng/m³ Air | | 1.00 | | | 3.03 | 10 | |
| Zinc | ND | 336 | ng/m³ Air | | ND | | | | 10 | U |
| Dilution Check (B4F1206-SRL2) | S | ource: 40 | 61041-05 | Prep | ared & A | nalyzed | : 06/12/24 | | | |
| Antimony | 0.377 | 0.165 | ng/m³ Air | | 0.389 | | | 3.24 | 10 | SL |
| Arsenic | 12.3 | 0.0401 | ng/m³ Air | | 12.3 | | | 0.375 | 10 | |
| Barium | 13.6 | 4.57 | ng/m³ Air | | 13.8 | | | 0.999 | 10 | QB-01 |
| Beryllium | 0.0329 | 0.0137 | ng/m³ Air | | 0.0301 | | | 9.12 | 10 | • |
| Cadmium | ND | 0.317 | ng/m³ Air | | ND | | | | 10 | U |
| Chromium | ND | 9.45 | ng/m³ Air | | ND | | | | 10 | U |
| Cobalt | 1.44 | 0.186 | ng/m³ Air | | 1.43 | | | 0.274 | 10 | |
| Copper | 248 | 11.2 | ng/m³ Air | | 239 | | | 3.56 | 10 | |
| Lead | 2.02 | 0.915 | ng/m³ Air | | 2.08 | | | 3.30 | 10 | |
| Manganese | 43.7 | 8.08 | ng/m³ Air | | 43.7 | | | 0.0685 | 10 | |
| Molybdenum | 10.6 | 1.53 | ng/m³ Air | | 10.3 | | | 2.87 | 10 | |
| Nickel | 3.56 | 2.79 | ng/m³ Air | | 3.53 | | | 0.914 | 10 | |
| Selenium | 0.309 | 0.0383 | ng/m³ Air | | 0.281 | | | 9.72 | 10 | SRD-01 |
| Thallium | 0.00616 | 0.00252 | ng/m³ Air | | 0.00341 | | | 57.4 | 10 | |
| Vanadium | 4.76 | 0.226 | ng/m³ Air | | 4.76 | | | 0.0513 | 10 | |
| Zinc | ND | 328 | ng/m³ Air | | ND | | | | 10 | U |
| Dilution Check (B4F1206-SRL3) | S | ource: 40 | 61041-05R | Prep | ared: 06/ | 12/24 | Analyzed: | 06/13/24 | | |
| Arsenic | 12.3 | 0.0801 | ng/m³ Air | | 12.0 | | | 2.47 | 10 | D |

Eastern Research Group



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: 06/19/24 13:12

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Notes and Definitions

U Under Detection Limit

SRD-01 Serial dilution exceeds the control limits.

SL The spike recovery was outside acceptance limits. Reported value may be biased low.

QM-4X The MS/MSD recovery exceeds criteria because the parent sample concentration is greater than 4x the spike

concentration.

QB-01 Analyte exceeds method blank criteria
PS-01 Post Spike exceeds DQO criteria.
FB-01 Analyte exceeds Field Blank criteria.
D This result obtained by dilution.
A-01 Parent sample >4x spike amount

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 06/20/2024 and Shanna Vasser 6/21/2024

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

Collection date(s): 05/30/2024 - 06/05/2024

Report No: 4061041

| √ 1. Chain of custod | dv (CoC |) documentation | is present. |
|--------------------------|------------|-----------------|-------------|
| | <i>J</i> (| , | 1 |

- $\underline{\checkmark}$ 2. Sample receipt condition information is present and acceptable.
- $\sqrt{}$ 3. Laboratory conducting the analysis is identified.
- $\sqrt{}$ 4. All samples submitted to the laboratory are accounted for.
- $\sqrt{}$ 5. Requested analytical methods were performed.
- $\sqrt{}$ 6. Analysis dates are provided.
- $\sqrt{}$ 7. Analyte results are provided.
- $\underline{\checkmark}$ 8. Result qualifiers and definitions are provided.
- $\sqrt{}$ 9. Result units are reported.
- NA 10. Requested reporting limits are present.
- $\sqrt{}$ 11. Method detection limits are present.
- $\sqrt{}$ 12. Sample collection date and time are present.
- X 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 arsenic and barium in MFL-FB01-060224-HM and for arsenic MFL-FB01-060424-HM.

Notes:

- 1. Laboratory report was revised on June 19, 2024, to correct a typographical error in the sample ID for MFL-AM04-053024-HM, which originally was reported as a duplicate MFL-AM03-053024-HM.
- 2. MFL-AM01-053124-HM was analyzed at a two-fold dilution for arsenic. MFL-AM01-060424-HM was analyzed at a five-fold dilution for antimony, barium, chromium, zinc and a 100-fold dilution for arsenic. MFL-AM01-060524-HM was analyzed at an eight-fold dilution for arsenic.



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

July 09, 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 06/10/24 15:50.

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.

NERG

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: 07/09/24 15:30

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

ANALYTICAL REPORT FOR SAMPLES

| <u>SampleName</u> | <u>LabNumber</u> | <u>Matrix</u> | <u>Sampled</u> | Received |
|--------------------|------------------|---------------|----------------|----------------|
| MFL-AM01-053124-HM | 4061041-05 | Air | 05/31/24 23:59 | 06/10/24 15:50 |
| MFL-AM01-060424-HM | 4061041-23 | Air | 06/04/24 23:59 | 06/10/24 15:50 |
| MFL-AM01-060524-HM | 4061041-28 | Air | 06/05/24 23:59 | 06/10/24 15:50 |



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 07/09/24 15:30

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM01-053124-HM **Lab ID:** 4061041-05

Sample Volume: 1902.618 m³

Sampled: 05/31/24 23:59 **Received:** 06/10/24 15:50

Filter ID: Analysis Date: 06/12/24 21:53

Comments: Q8505816 - Received in good condition

Inorganics by Compendium Method IO-3.5

| | | <u>Results</u> | | | | | |
|----------------|-------------------|------------------|-----------------------|-----------|--|--|--|
| <u>Analyte</u> | CAS Number | <u>ng/m³ Air</u> | <u>Flag</u> | ng/m³ Air | | | |
| Antimony | 7440-36-0 | 0.389 | SL | 0.0330 | | | |
| Barium | 7440-39-3 | 13.8 | QB-01 | 0.915 | | | |
| Beryllium | 7440-41-7 | 0.0301 | | 0.00274 | | | |
| Cadmium | 7440-43-9 | 0.0481 | U | 0.0634 | | | |
| Chromium | 7440-47-3 | 8.71 | | 1.89 | | | |
| Cobalt | 7440-48-4 | 1.43 | | 0.0373 | | | |
| Copper | 7440-50-8 | 239 | A-01, PS-01, QM-4X | 2.25 | | | |
| Lead | 7439-92-1 | 2.08 | - | 0.183 | | | |
| Manganese | 7439-96-5 | 43.7 | A-01, PS-01 | 1.62 | | | |
| Molybdenum | 7439-98-7 | 10.3 | | 0.307 | | | |
| Nickel | 7440-02-0 | 3.53 | | 0.558 | | | |
| Selenium | 7782-49-2 | 0.281 | SRD-01 | 0.00766 | | | |
| Thallium | 7440-28-0 | 0.00341 | | 5.04E-4 | | | |
| Vanadium | 7440-62-2 | 4.76 | | 0.0452 | | | |
| Zinc | 7440-66-6 | 57.9 | U | 65.7 | | | |



Tetra Tech, Inc.

Description:

Comments:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 07/09/24 15:30

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Lab ID: 4061041-05RE1

Sampled: 05/31/24 23:59 **Received:** 06/10/24 15:50

Sample Volume: 1902.618 m³

Analysis Date: 06/13/24 18:41

Filter ID:

Q8505816 - Received in good condition

Inorganics by Compendium Method IO-3.5

Results

MDL

Analyte CAS Number 7440-38-2

MFL-AM01-053124-HM

ng/m³ Air 12.0 <u>Flag</u>

ng/m³ Air 0.0160

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.



Tetra Tech, Inc.

Description:

Comments:

Analyte

Arsenic

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

MFL-AM01-053124-HM

Air

Q8505816 - Received in good condition

7440-38-2

FILE #: 4205.00.003.001

REPORTED: 07/09/24 15:30

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

4061041-05RE2 Sampled: 05/31/24 23:59

Received: 06/10/24 15:50

Analysis Date: 06/26/24 11:30

Inorganics by Compendium Method IO-3.5

Sample Volume: 1902.618 m³

Results

ng/m³ Air **CAS Number**

Lab ID:

Filter ID:

12.4

<u>Flag</u>

ng/m³ Air 0.0160

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.



Tetra Tech, Inc.

Description:

Comments:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

MFL-AM01-060424-HM

Matrix: Air

Filter ID: Q8505844 - Received in good condition

FILE #: 4205.00.003.001

REPORTED: 07/09/24 15:30

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Sampled: 06/04/24 23:59

Received: 06/10/24 15:50

Analysis Date: 06/13/24 08:04

Inorganics by Compendium Method IO-3.5

4061041-23

Sample Volume: 1916.783 m³

| | _ | Results | | | | | | |
|----------------|-------------------|-----------|-------------|-----------|--|--|--|--|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air | | | | |
| Beryllium | 7440-41-7 | 0.0721 | | 0.00272 | | | | |
| Cadmium | 7440-43-9 | 1.24 | | 0.0629 | | | | |
| Cobalt | 7440-48-4 | 4.69 | | 0.0370 | | | | |
| Copper | 7440-50-8 | 624 | | 2.23 | | | | |
| Lead | 7439-92-1 | 5.98 | | 0.182 | | | | |
| Manganese | 7439-96-5 | 96.5 | | 1.60 | | | | |
| Molybdenum | 7439-98-7 | 12.9 | | 0.305 | | | | |
| Nickel | 7440-02-0 | 11.5 | | 0.553 | | | | |
| Selenium | 7782-49-2 | 0.538 | | 0.00761 | | | | |
| Thallium | 7440-28-0 | 0.00833 | | 5.00E-4 | | | | |
| Vanadium | 7440-62-2 | 7.94 | | 0.0449 | | | | |
| | | | | | | | | |

Lab ID:



Tetra Tech, Inc.

Description:

Comments:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

MFL-AM01-060424-HM

Matrix: Air

Q8505844 - Received in good condition

FILE #: 4205.00.003.001

REPORTED: 07/09/24 15:30

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE:

Lahaina fires

Sampled: 06/04/24 23:59

Received: 06/10/24 15:50

Analysis Date: 06/13/24 12:22

Inorganics by Compendium Method IO-3.5

4061041-23RE1

Sample Volume: 1916.783 m³

| | | <u>MDL</u> | | |
|----------------|-------------------|------------|-------------|-----------|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air |
| Antimony | 7440-36-0 | 9.37 | D, SL | 0.164 |
| Barium | 7440-39-3 | 327 | D, QB-01 | 4.54 |
| Chromium | 7440-47-3 | 130 | D | 9.38 |
| Zinc | 7440-66-6 | 994 | D | 326 |

Lab ID:

Filter ID:



Tetra Tech, Inc.

Description:

Comments:

Analyte

Arsenic

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

MFL-AM01-060424-HM

Air

Lab ID:

4061041-23RE2

Sample Volume: 1916.783 m³

Filter ID:

Lahaina fires

Sampled: 06/04/24 23:59

Received: 06/10/24 15:50

Analysis Date: 06/13/24 12:42

Inorganics by Compendium Method IO-3.5

Results

CAS Number 7440-38-2

Q8505844 - Received in good condition

ng/m³ Air 537

<u>Flag</u> D

ng/m³ Air 0.795

FILE #: 4205.00.003.001

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE:

REPORTED: 07/09/24 15:30

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.



Tetra Tech, Inc.

Description:

Comments:

Analyte

Arsenic

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

MFL-AM01-060424-HM

Matrix: Air

Lab ID:

4061041-23RE3

Sample Volume: 1916.783 m³

Filter ID:

Lahaina fires

Sampled: 06/04/24 23:59

Received: 06/10/24 15:50

Analysis Date: 06/26/24 11:48

Inorganics by Compendium Method IO-3.5

Results

CAS Number 7440-38-2

Q8505844 - Received in good condition

ng/m³ Air 499

<u>Flag</u> D

ng/m³ Air 0.795

FILE #: 4205.00.003.001

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE:

REPORTED: 07/09/24 15:30

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.

Page 9 of 14



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 07/09/24 15:30

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

MFL-AM01-060524-HM **Lab ID:** 4061041-28

Sample Volume: 1880.978 m³

Sampled: 06/05/24 23:59 **Received:** 06/10/24 15:50

Filter ID: Analysis Date: 06/13/24 09:49

Comments: Q8508517 - Received in good condition

Inorganics by Compendium Method IO-3.5

| | | <u>Results</u> | | | | | |
|----------------|-------------------|----------------|-------------|-----------|--|--|--|
| <u>Analyte</u> | CAS Number | ng/m³ Air | <u>Flag</u> | ng/m³ Air | | | |
| Antimony | 7440-36-0 | 1.20 | SL | 0.0334 | | | |
| Barium | 7440-39-3 | 44.5 | QB-01 | 0.926 | | | |
| Beryllium | 7440-41-7 | 0.0630 | | 0.00277 | | | |
| Cadmium | 7440-43-9 | 0.208 | | 0.0641 | | | |
| Chromium | 7440-47-3 | 19.3 | | 1.91 | | | |
| Cobalt | 7440-48-4 | 2.67 | | 0.0377 | | | |
| Copper | 7440-50-8 | 366 | | 2.27 | | | |
| Lead | 7439-92-1 | 2.97 | | 0.185 | | | |
| Manganese | 7439-96-5 | 85.1 | | 1.63 | | | |
| Molybdenum | 7439-98-7 | 11.4 | | 0.311 | | | |
| Nickel | 7440-02-0 | 6.67 | | 0.564 | | | |
| Selenium | 7782-49-2 | 0.528 | | 0.00775 | | | |
| Thallium | 7440-28-0 | 0.00795 | | 5.09E-4 | | | |
| Vanadium | 7440-62-2 | 7.51 | | 0.0458 | | | |
| Zinc | 7440-66-6 | 106 | | 66.4 | | | |
| | | | | | | | |



Tetra Tech, Inc.

Description:

Comments:

Analyte

Arsenic

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Matrix: Air

MFL-AM01-060524-HM

Q8508517 - Received in good condition

7440-38-2

FILE #: 4205.00.003.001

REPORTED: 07/09/24 15:30

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE:

Lahaina fires

Sampled: 06/05/24 23:59

Received: 06/10/24 15:50

Analysis Date: 06/13/24 12:56

Inorganics by Compendium Method IO-3.5

4061041-28RE1

Sample Volume: 1880.978 m³

Results

ng/m³ Air **CAS Number**

Lab ID:

Filter ID:

42.3

<u>Flag</u>

ng/m³ Air 0.0648

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.

Page 11 of 14



Tetra Tech, Inc.

Description:

Matrix:

1777 Sentry Pkwy, Bldg 12

Blue Bell, PA 19422

ATTN: Ms. Chelsea Saber

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

Air

FILE #: 4205.00.003.001

REPORTED: 07/09/24 15:30

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Lab ID: 4061041-28RE2

Sampled: 06/05/24 23:59 Sample Volume: 1880.978 m³ Received: 06/10/24 15:50

Analysis Date: 06/26/24 12:03

Filter ID:

Comments: Q8508517 - Received in good condition

Inorganics by Compendium Method IO-3.5

Results

Analyte CAS Number Arsenic 7440-38-2

MFL-AM01-060524-HM

ng/m³ Air 47.5

<u>Flag</u>

ng/m³ Air 0.0648

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.



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:** 07/09/24 15:30

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

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



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: 07/09/24 15:30

SUBMITTED: 06/10/24

AQS SITE CODE:

SITE CODE: Lahaina fires

Notes and Definitions

U Under Detection Limit

SRD-01 Serial dilution exceeds the control limits.

SL The spike recovery was outside acceptance limits. Reported value may be biased low.

QM-4X The MS/MSD recovery exceeds criteria because the parent sample concentration is greater than 4x the spike

concentration.

QB-01 Analyte exceeds method blank criteria
PS-01 Post Spike exceeds DQO criteria.
D This result obtained by dilution.
A-01 Parent sample >4x spike amount

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 08/02/2024 and Shanna Vasser 08/02/2024

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

Collection date(s): 05/30/2024 - 06/05/2024

Report No: 4061041

| √ 1. Chain of custod | dv (CoC |) documentation | is present. |
|--------------------------|------------|-----------------|-------------|
| | <i>J</i> (| , | 1 |

- $\underline{\checkmark}$ 2. Sample receipt condition information is present and acceptable.
- $\sqrt{}$ 3. Laboratory conducting the analysis is identified.
- $\sqrt{}$ 4. All samples submitted to the laboratory are accounted for.
- $\sqrt{}$ 5. Requested analytical methods were performed.
- $\sqrt{}$ 6. Analysis dates are provided.
- $\sqrt{}$ 7. Analyte results are provided.
- $\sqrt{}$ 8. Result qualifiers and definitions are provided.
- $\sqrt{}$ 9. Result units are reported.
- NA 10. Requested reporting limits are present.
- $\sqrt{}$ 11. Method detection limits are present.
- $\sqrt{}$ 12. Sample collection date and time are present.
- X 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 arsenic and barium in MFL-FB01-060224-HM and for arsenic MFL-FB01-060424-HM.

Notes:

- 1. Laboratory report was revised on June 19, 2024, to correct a typographical error in the sample ID for MFL-AM04-053024-HM, which originally was reported as a duplicate MFL-AM03-053024-HM.
- 1. A second report was provided on July 9, 2024 including reanalysis data for MFL-AM01-053124-HM, MFL-AM01-060424-HM, and MFL-AM01-060524-HM. These sample were re-analyzed by the lab due to elevated and/or exceeded arsenic values. During reanalysis, MFL-AM01-053124-HM was analyzed at a two-fold dilution for arsenic, MFL-AM01-060424-HM was analyzed at a

100-fold dilution for arsenic, and MFL-AM01-060524-HM was analyzed at an eight-fold dilution for arsenic.

2. In the original lab report dated June 19, 2024, MFL-AM01-053124-HM was analyzed at a two-fold dilution for arsenic. MFL-AM01-060424-HM was analyzed at a five-fold dilution for antimony, barium, chromium, zinc and a 100-fold dilution for arsenic. MFL-AM01-060524-HM was analyzed at an eight-fold dilution for arsenic.