MONTANA RESOURCES LLP

DATA REPORT FOR TSP AND PM_{10} MONITORING STATION AT GREELEY SCHOOL IN BUTTE, MONTANA

QUARTER 1, 2025

Prepared for:

Montana Resources LLP
600 Shields Avenue
Butte, MT 59701

Prepared by:

Bison Engineering, Inc.
3143 E. Lyndale Avenue
Helena, MT 59601
(406) 442-5768
http://www.bison-eng.com

June 12, 2025

CERTIFICATION OF DATA INTEGRITY

Bison Engineering, Inc. certifies the data in this report is an accurate summary of the air quality and meteorological conditions measured at the Greeley School ambient monitoring site. Every reasonable effort was made to obtain accurate and representative data and to comply with the procedures set forth in the project-specific *Quality Assurance Project Plan (QAPP)*, *State of Montana Ambient Air Monitoring Program Quality Assurance Project Plan (April 2013)*, and the Environmental Protection Agency's *Volume II: Ambient Air Quality Program (January 2017) and Volume IV: Meteorological Measurements.*

Preparer: Steven R. Heck

Signature: 

Title: Meteorologist

Date: June 12, 2025

Reviewer: Harold W. Robbins

Signature: 

Title: Executive Manager

Date: June 17, 2025

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1.0 INTRODUCTION

Particulate monitoring has been conducted in the Greeley School area for many years, since the days of the Anaconda Company operation during the 1970s. Montana Department of Environmental Quality (MDEQ) and Butte-Silver Bow (BSB) County are currently performing the following monitoring:

- Continuous monitoring for PM_{10} using a Met One Model 1020 Beta Attenuation Monitor (BAM-1020).

- Continuous monitoring for $PM_{2.5}$ using a second Met One BAM-1020.

- Episodic monitoring for $PM_{2.5}$ using a BGI Model PQ-200 sampler. This sampler collects particulate matter on a filter over a 24-hour period, which is subsequently analyzed gravimetrically to determine the average airborne $PM_{2.5}$ concentration during the sampling period. The filter is then analyzed by an EPA laboratory for trace elements and mineralized compounds. This episodic sampling is performed every six days, concurrent with EPA's national one-in-six-day sampling schedule.

- The Greeley School site includes meteorological instruments that measure wind speed, wind direction and temperature.

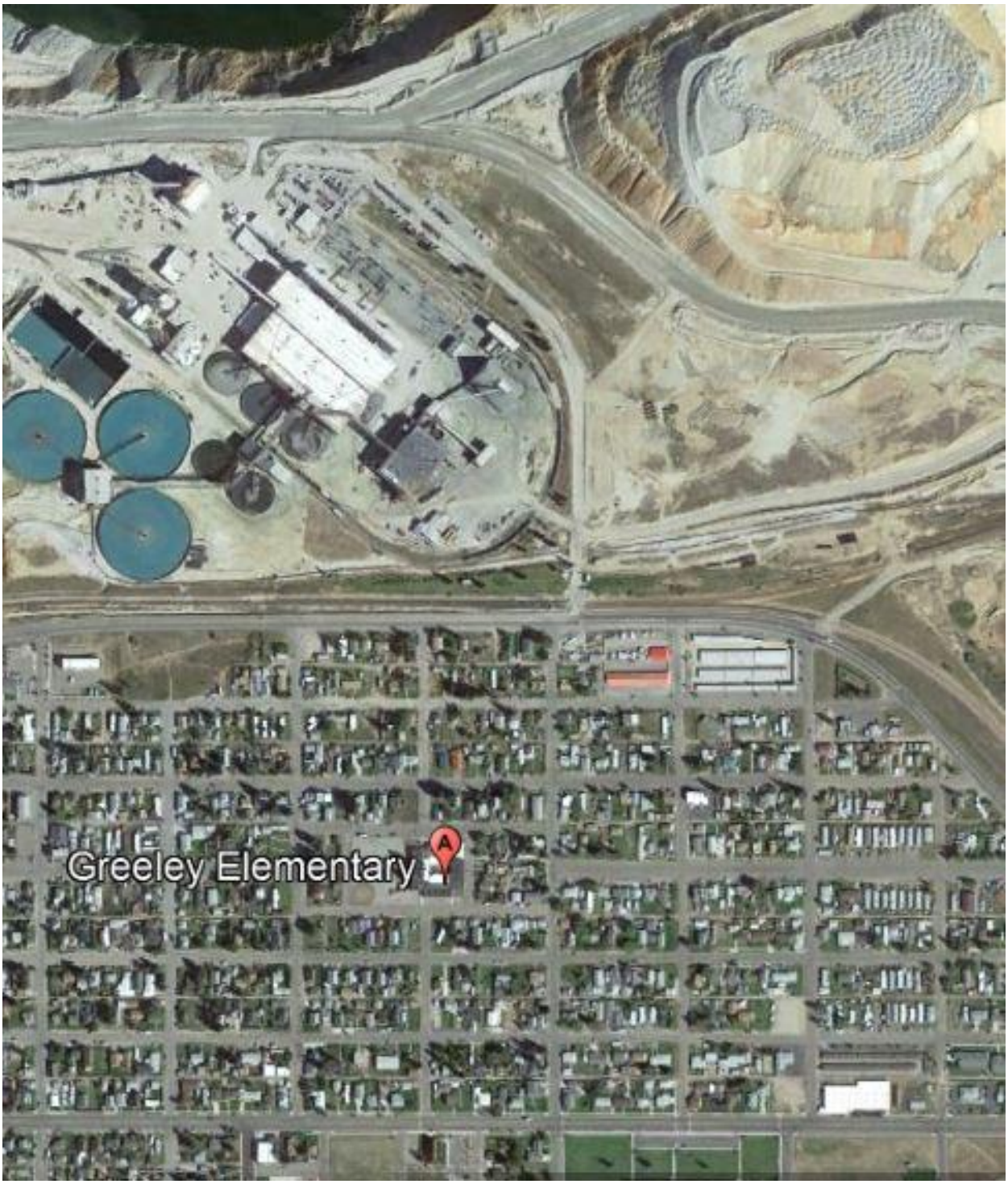
MDEQ/BSB's monitoring provides continuous, real-time hourly $PM_{2.5}$ and PM_{10} concentrations, as well as $PM_{2.5}$ chemical composition data. In March 2019 and at Montana Resources' (MR) request, Bison Engineering Inc. (Bison) installed additional collocated monitoring equipment at the Greeley School:

- Total Suspended Particulate Sampler: A Met One E-Sampler that continuously measures hourly total suspended particulate (TSP) concentrations using a nephelometric technique that relates light scattering to ambient particulate concentration. Additionally, the sampler includes a filter that is analyzed for total particulate mass and trace elements. Prior to this study, no ongoing TSP monitoring was being performed,

- PM_{10} Particulate Sampler: A BGI Model PQ-200 sampler that collects 24-hour inhalable particulate (PM_{10}) samples on a filter, concurrent with the EPA one-in-six-day sampling schedule. The filter is analyzed for particulate mass and for selected trace elements. The MDEQ BAM-1020 that is used for PM_{10} hourly monitoring does not produce a filter suitable for chemical analysis.

This report presents and analyzes the data collected from the instrumentation noted above during the first quarter of 2025. In addition, a description of the monitoring system operations is presented, together with summaries of quality assurance activities including calibrations and performance audits. Tabular summaries of data completeness and periods of missing and/or invalid data also are presented.

Figure 1: Greeley School / Montana Resources LLP Vicinity



2.0 MONITORING SYSTEM OPERATIONS

At MR's request, Bison currently operates two particulate monitors at the Greeley School site:[1]

- PM_{10} sampling is accomplished with a BGI PQ-2000 sampler using filters that collect particulate matter for a 24-hour period based on the EPA national one-in-six-day schedule. Those filters are analyzed gravimetrically, and for selected trace elements. The 24-hour PM_{10} averages from the filters also will be compared against concurrent hourly data from the MDEQ/BSB BAM-1020 monitor, to provide a check on data comparability.

- TSP measurements are accomplished with a Met One AC-powered E-Sampler. It includes an external relative humidity sensor, as well as ambient temperature and pressure sensors housed within the sampler. The TSP sampler is not an EPA Reference or Equivalent Method[2] sampler, and this monitoring does not attempt to determine compliance with the historic TSP standard that was superseded by a PM_{10} standard in 1987. However, the E-Sampler provides hourly estimated TSP measurements that may be compared with on-site wind data to indicate primary TSP source areas. Additionally, it includes a particulate filter suitable for gravimetric and chemical analysis. Because the E-Sampler operates at a flowrate of only 2.0 liters per minute, sampling filters were exposed for periods ranging from 5-8 days so that sufficient particulate mass was collected for chemical analysis. Additionally, the E-Sampler includes a cellular modem to enable remote data downloading. Bison downloads and reviews hourly data collected by the E-Sampler at least once per week.

In addition to the monitoring described above, MDEQ/BSB operates a meteorological station at the Greeley site. That information is also summarized in this report. This meteorological data may prove useful for interpretation of the particulate data. More specifically:

- Wind speed and wind direction data collected by MDEQ/BSB at the Greeley School site may, from time to time, be compared to hourly TSP readings to aid in the identification of TSP (which includes the smaller PM_{10} and $PM_{2.5}$ fractions) source areas. Additionally, the ambient temperature data collected by MDEQ/BSB may also be used for data interpretation and analysis. In particular, the temperature data is used to identify relative humidity thresholds that indicate the presence of fog.

The MR samplers are visited approximately every five to eight days by BSB personnel. They remove the exposed particulate filters from both samplers and install pre-weighed clean filters for the next sampling episode. The primary operational difference between the two samplers is that the E-Sampler (TSP) filter is exposed continuously from the time of

[1] In July 2023 additional monitoring was initiated at two new locations in the Greeley area. Those monitoring results, along with dustfall data at Greeley, are being reported separately.
[2] Reference and Equivalent Methods are defined in 40 CFR 50.1.

installation until the time of removal, while the BGI PM_{10} sampler filter is exposed for only a single 24-hour episode. The difference in filter exposure periods is necessary because the BGI unit operates at approximately 16.7 liters per minute (lpm) while the E-Sampler operates at 2.0 lpm. This operating scheme results in comparable air sample volumes between the two instruments: approximately 24 cubic meters (m^3) for the BGI sampler versus roughly 14 m^3 to 22 m^3 for the E-Sampler (based on five to eight days between filter exchanges). After retrieval, BSB mails the exposed filters to Bison's Billings office for gravimetric analysis. Following particulate mass determination, Bison submits the weighed filters to Energy Laboratories, Inc. (ELI) in Billings for chemical analysis.

Once per month, Bison conducts calibration checks on both samplers; results of the calibrations are presented in Section 6.0. Once in each calendar quarter, Bison conducts a performance audit of both samplers. The audits are performed by a different person than the monthly calibration checks, using separate NIST-traceable flow standards. The audit performed in March 2025 is documented in this report.

Appendix A presents hourly data for all relevant monitoring parameters, including:

- Hourly TSP data collected by Bison Engineering;
- Hourly relative humidity data collected by Bison Engineering;[3]
- Hourly temperature and wind data collected by BSB/MDEQ; these data are integral to the reporting and analysis of the hourly TSP data being collected by Bison.

The hourly PM_{10} and $PM_{2.5}$ and meteorological data collected by BSB/MDEQ were provided to Bison by MDEQ.

[3] The E-Sampler also collects hourly values of temperature and barometric pressure, but those values are typically not reported herein. The barometric pressure data are not relevant to the analyses in this report, and the ambient temperature data collected by the MDEQ/BSB monitor are generally superior to those collected by the E-Sampler. However, temperature data from the E-Sampler are reported during periods of missing or invalid MDEQ temperature data.

3.0 PM_{10} SAMPLING DATA

The National Ambient Air Quality Standards (NAAQS) for PM_{10} were first promulgated in 1987 and have been modified several times since (1997, 2000 and 2006). The current form of the standard is found at 40 CFR 50.6. The form of the standard is ambient concentration measured and reported at local temperature and pressure (LTP). Although Bison employs typical PM_{10} monitoring procedures and instrumentation, this monitoring is not being performed as a formal demonstration of compliance with the PM_{10} NAAQS; rather, the monitoring aims to provide PM_{10} samples suitable for chemical analysis. Such samples are not necessarily being collected under the existing monitoring program.

Table 1 briefly summarizes the PM_{10} data collected during the first quarter of 2025. For comparison it also shows concurrent 24-hour PM_{10} and $PM_{2.5}$ averages calculated from the hourly values reported by the MDEQ/BSB BAM-1020 monitor. These results show reasonable consistency between the two PM_{10} measurement methods on most sampling dates. However, larger differences were noted on January 1 and March 26 with no obvious cause. The gravimetric filter data were verified for accuracy, and no unusual behavior was evident in the continuous BAM-1020 hourly data.

Although not the focus of this study, these results show that the maximum 24-hour PM_{10} concentrations (24 µg/m^3 for the BGI sampler on March 2 and 31 µg/m^3 for the BAM-1020 monitor on March 26) were well below the 24-hour standard of 150 µg/m^3.[4] The quarterly PM_{10} averages from both samplers (13 µg/m^3 and 16 µg/m^3) were well below the Montana Annual PM_{10} standard of 50 µg/m^3.[5]

Data used to calculate average PM_{10} concentrations from gravimetric analysis are presented in Appendix B. Chemical analysis results for Bison's PM_{10} filters are presented in Section 5.0 of this report.

[4] 40 CFR 50.6.

[5] The NAAQS annual PM_{10} standard was repealed October 17, 2006. Montana, however, has retained an annual PM_{10} standard of 50 µg/m^3. *(ARM17.8.223)*

Table 1: Summary of PM_{10} Monitoring Data for Quarter 1, 2025

Sample Collection Date (2025)	BGI PM10[1] (µg/m³)	BAM-1020[1] PM10 (µg/m³)	Arithmetic Difference (µg/m³)	Relative Difference (%)		BAM-1020[1] PM2.5 (µg/m³)
Jan 01	6.5	15.4	-8.9	81		7.6
Jan 07	12.3	12.0	0.3	2		8.2
Jan 13	10.1	9.5	0.6	6		3.1
Jan 19	10.9	14.3	-3.4	27		4.1
Jan 25	15.8	14.1	1.7	11		8.1
Jan 31	21.9	24.0	-2.1	9		8.6
Feb 06	8.0	10.2	-2.2	24		4.2
Feb 12	20.1	18.6	1.5	8		10.6
Feb 18	12.2	10.0	2.2	20		6.3
Feb 24	5.2	7.1	-1.9	31		3.1
Mar 02	24.1	29.5	-5.4	20		9.8
Mar 08	14.4	19.6	-5.2	31		4.6
Mar 14	8.6	9.0	-0.4	5		4.4
Mar 20	9.3	11.8	-2.5	24		3.1
Mar 26	22.1	30.5	-8.4	32		6.7
Average	**13.4**	**15.7**	**2.4**	**16[2]**		**6.2**

[1]All values at local temperature and pressure (LTP).
[2]Denotes relative percent difference of the quarterly averages.

4.0 TSP SAMPLING DATA

Hourly TSP data were collected by the Bison E-Sampler beginning on March 1, 2019, at 1500 MST. Data were also collected continuously throughout the first quarter of 2025.

As noted previously, the E-Sampler does not make a direct TSP measurement. It measures the visual light scattering (90^{o} to the light beam) of the sampled air, and then calculates hourly TSP averages based on a user-entered calibration multiplier. The appropriate multiplier varies by location depending on the nature of the airborne particulate and can also vary seasonally. For this project, the multiplier is determined approximately once per week using the gravimetrically obtained data from the TSP filter (used for metals analysis) as a means of calibration. The sample filter used during monitoring is analyzed gravimetrically to determine an *empirical* correction factor; those results then are used to appropriately calibrate (correct) all collected TSP data prior to reporting.

As noted previously, the purpose of this monitoring is not to obtain rigorous TSP measurements to ascertain compliance with published (or historical) standards. While the E-Sampler is not a Reference Method monitor, it provides unique dual capabilities to satisfy important objectives of this project:

- Obtain hourly TSP values that can be compared to other particulate data (PM_{10} and $PM_{2.5}$). It may also be used to investigate diurnal patterns along with specific episodic conditions. The hourly data may also prove useful in source contribution investigations by comparing the results with on-site wind speed and direction data to identify potential sources of airborne particulate, and

- Collect TSP material on filters that may be analyzed gravimetrically, and for selected trace elements. The material collected on the TSP filters includes all airborne particle sizes, in contrast to the PM_{10} sampler filters which exclude all material of greater than 10-micron diameter.

One limitation of this nephelometric method is that false high TSP readings can occur during periods of fog. For this reason, all hourly data collected during periods with an ambient relative humidity above 90 percent of the possible value[6] have been excluded from the reported data. A total of 317 hours of E-Sampler data were excluded from analysis during the first quarter for that reason.

[6] The maximum possible reading from an ambient relative humidity sensor varies with temperature. At temperatures of 0°C or greater it is 100 percent. At subfreezing temperatures, it decreases by 0.8 percent relative humidity for every 1°C drop in temperature. For example, at a temperature of -20°C the maximum possible reported relative humidity is 84%. At that temperature, all TSP data associated with a reported relative humidity of 75.6 % (calculated as 0.9 x 84%) or higher would be excluded from analysis due to possible fog effects.

4.1 TSP Data Summary

Monthly and quarterly average TSP data for the first quarter are summarized in Table 2 and are compared with concurrent PM_{10} and $PM_{2.5}$ data from the MDEQ/BSB monitors. Daily average concentrations for each parameter are presented in Tables 2a through 2c.[7] To facilitate direct comparability with the TSP data, hourly PM_{10} and $PM_{2.5}$ values during suspected fog periods (and whenever TSP data were missing for other reasons) have been excluded from the calculations below, although the PM_{10} and $PM_{2.5}$ monitors in use at the Greeley School are generally unaffected by fog.

In general, the daily TSP averages from the E-Sampler TSP monitor were similar to the PM_{10} values from the BAM-1020 PM_{10} monitor, although the PM_{10} fraction was lower in January (~70 percent) than in February and March (~85 percent). This indicates that most of the airborne particulate was smaller than 10 microns. It should be noted that the TSP measurements are made using a nephelometric technique while the hourly PM_{10} measurements are made using beta attenuation. The $PM_{2.5}$ fraction averaged approximately 30 percent over the quarter but reached 38 percent in February. In general, particulate levels were highest in January likely due to long periods of stable weather with inversion conditions.

Average temperatures were below normal in both January and February, and above normal in March. Precipitation was slightly below normal in January, and above normal in both February and March based on records from the Butte airport.

Table 2: TSP, PM_{10} and $PM_{2.5}$ Averages for Quarter 1, 2025

Period 2025	TSP (µg/m³)	PM_{10} (µg/m³)	$PM_{2.5}$ (µg/m³)
January	31	22	8.7
February	18	15	6.8
March	16	14	4.6
Quarter 1	**22**	**17**	**6.5**

[7] Monthly and quarterly average values shown in Tables 2, 2a, 2b and 2c are calculated using all hourly values for time periods shown. Any apparent inconsistencies among monthly and quarterly averages reflect differences in data recovery among the three months, as shown in Section 8.0.

Table 2a: TSP, PM_{10} and $PM_{2.5}$ Daily Averages for January 2025

Date 2025	TSP (µg/m³)	PM_{10} (µg/m³)	$PM_{2.5}$ (µg/m³)
Jan 1	38	15	7.8
Jan 2	42	17	11.3
Jan 3	42	16	10.6
Jan 4	23	7	5.0
Jan 5	46	16	11.1
Jan 6	15	8	5.4
Jan 7	15	9	7.5
Jan 8	13	17	8.2
Jan 9	9	7	3.3
Jan 10	13	14	5.3
Jan 11	9	12	2.3
Jan 12	10	7	3.7
Jan 13	10	10	3.0
Jan 14	42	34	11.5
Jan 15	51	53	16.5
Jan 16	13	9	4.3
Jan 17	14	17	1.3
Jan 18	16	14	3.6
Jan 19	20	14	4.1
Jan 20	43	19	10.2
Jan 21	45	30	7.3
Jan 22	18	11	3.6
Jan 23	110	82	31.1
Jan 24	43	21	8.0
Jan 25	25	15	7.2
Jan 26	57	33	13.4
Jan 27	65	44	14.8
Jan 28	44	44	16.1
Jan 29	52	56	22.0
Jan 30	52	63	24.5
Jan 31	22	24	8.6
Average	**31**	**22**	**8.7**

Table 2b: TSP, PM_{10} and $PM_{2.5}$ Daily Averages for February 2025

Date 2025	TSP (µg/m³)	PM_{10} (µg/m³)	$PM_{2.5}$ (µg/m³)
Feb 1	7	8	4.3
Feb 2	14	12	6.5
Feb 3	20	12	4.9
Feb 4	26	17	6.2
Feb 5	24	18	4.8
Feb 6	8	11	3.7
Feb 7	25	14	3.9
Feb 8	34	17	7.9
Feb 9	44	16	8.9
Feb 10	24	9	3.2
Feb 11	32	19	9.8
Feb 12	22	21	10.9
Feb 13	34	33	19.0
Feb 14	19	24	11.3
Feb 15	10	8	3.7
Feb 16	14	14	7.6
Feb 17	21	11	9.6
Feb 18	19	11	5.4
Feb 19	21	19	10.7
Feb 20	12	11	7.7
Feb 21	13	15	7.5
Feb 22	11	14	7.0
Feb 23	3	7	3.7
Feb 24	4	7	3.1
Feb 25	3	7	3.0
Feb 26	7	9	4.1
Feb 27	22	30	9.0
Feb 28	32	33	10.5
Average	**18**	**15**	**6.8**

Table 2c: TSP, PM_{10} and $PM_{2.5}$ Daily Averages for March 2025

Date 2025	TSP (µg/m³)	PM_{10} (µg/m³)	$PM_{2.5}$ (µg/m³)
Mar 1	34	38	13.2
Mar 2	31	32	9.7
Mar 3	20	16	8.3
Mar 4	11	13	6.6
Mar 5	15	14	5.0
Mar 6	31	15	5.2
Mar 7	21	12	5.1
Mar 8	22	20	4.6
Mar 9	16	18	4.7
Mar 10	22	18	5.4
Mar 11	21	16	5.1
Mar 12	36	26	6.6
Mar 13	8	10	3.7
Mar 14	15	9	4.4
Mar 15	14	10	3.7
Mar 16	6	5	3.1
Mar 17	8	4	3.0
Mar 18	21	14	1.8
Mar 19	19	11	6.1
Mar 20	6	12	3.1
Mar 21	3	5	2.4
Mar 22	7	8	2.9
Mar 23	7	11	2.7
Mar 24	3	6	1.9
Mar 25	10	13	2.8
Mar 26	35	31	6.7
Mar 27	31	28	5.4
Mar 28	15	13	3.9
Mar 29	3	4	2.2
Mar 30	4	6	2.8
Mar 31	20	11	3.2
Average	**16**	**14**	**4.6**

It is also instructive to examine variations in TSP concentration with wind speed and direction:

- Figure 2 presents a wind rose for all hours in the first quarter.

- Figure 3 presents a wind rose for only those periods when the reported hourly TSP concentration was above 40 μg/m^3; this represents the upper 15 percent of valid TSP values.

- Figure 4 presents a wind rose for only those periods when the hourly TSP concentration was below 7 μg/m^3; this represents the lower 31 percent of valid TSP values.

- Appendix C presents the corresponding tables for these wind roses, which show exact numerical frequencies and averages. The discussions below rely on data from those tables.

Figure 2 shows a strong emphasis for southwest through southeast winds, with roughly 50 percent of all winds blowing from those directions. Winds from other directions were fairly equally distributed. The average wind speed was only 1.1 m/s (2.5 mph). This likely reflects frequent inversion conditions during January and February.

Figure 3 shows a wind rose for high[8] (>40 μg/m^3) TSP concentrations. Wind directions during these periods show a pronounced south through southeast emphasis, with nearly half of all winds from those directions. Wind speeds were even lower, averaging only 0.8 m/s (1.8 mph). This is consistent with inversion conditions.

Figure 4 shows a wind rose for low (<7 μg/m^3) TSP concentrations. Winds were frequently from the southwest and from the northwest. Wind speeds during low-TSP periods were noticeably higher than for the quarter overall, averaging 1.7 m/s (3.8 mph).

In general, TSP levels tended to increase during southeasterly winds and decrease during westerly winds. Wind speeds were lowest during high TSP concentrations, and highest during low TSP concentrations.

4.2 TSP vs PM_{10}

A comparison was made between the gravimetrically-determined TSP data and the concurrent hourly data for PM_{10}. Unlike the data presented in Section 4.1, the TSP gravimetric data was collected over periods typically ranging from 5–8 days. The reason for the long sampling period was explained in Section 2.0 and relates to the volumetric collection needs for a valid mass sample. For interest, the gravimetric TSP sample results were

[8] The descriptor "high" is used only in a relative sense, as all the TSP data presented in this analysis indicate concentrations far below any historical standards.

compared against the hourly PM_{10} data obtained from beta attenuation over concurrent periods. Table 3 provides this comparison.

The table shows that overall, the gravimetrically determined TSP concentrations from the E-Sampler were similar to the concurrent PM_{10} concentrations from the BAM-1020 monitor. This comparison indicates that approximately 83 percent of the airborne particulate was smaller than 10 microns during the first quarter of 2025; this is consistent with the analysis presented in Section 4.1.

Table 3: Summary of Gravimetric TSP vs Hourly PM_{10} for Quarter 1, 2025

Sampling Period (2025)	Average Gravimetric TSP ($\mu g/m^3$)	Average BAM-1020 PM_{10} ($\mu g/m^3$)
12/30/24–01/06/25	18.2	12.9
01/06-01/09	11.9	12.5
01/09-01/14	13.2	14.3
01/14-01/21	27.2	20.1
01/21-01/28	49.5	28.8
01/28-02/03	24.8	25.4
02/03-02/11	28.1	15.6
02/11-02/14	25.3	23.9
02/14-02/19	16.2	13.3
02/19-02/25	8.1	12.4
02/25-03/05	20.7	21.4
03/05-03/12	23.5	17.8
03/12-03/18	10.5	8.3
03/18-03/25	9.3	10.0
03/25-03/31	17.7	15.7
Average	**20.3**	**16.8**

Figure 2. Quarterly Wind Rose, Greeley School (All Hours)

First Quarter 2025 (direction wind was from)

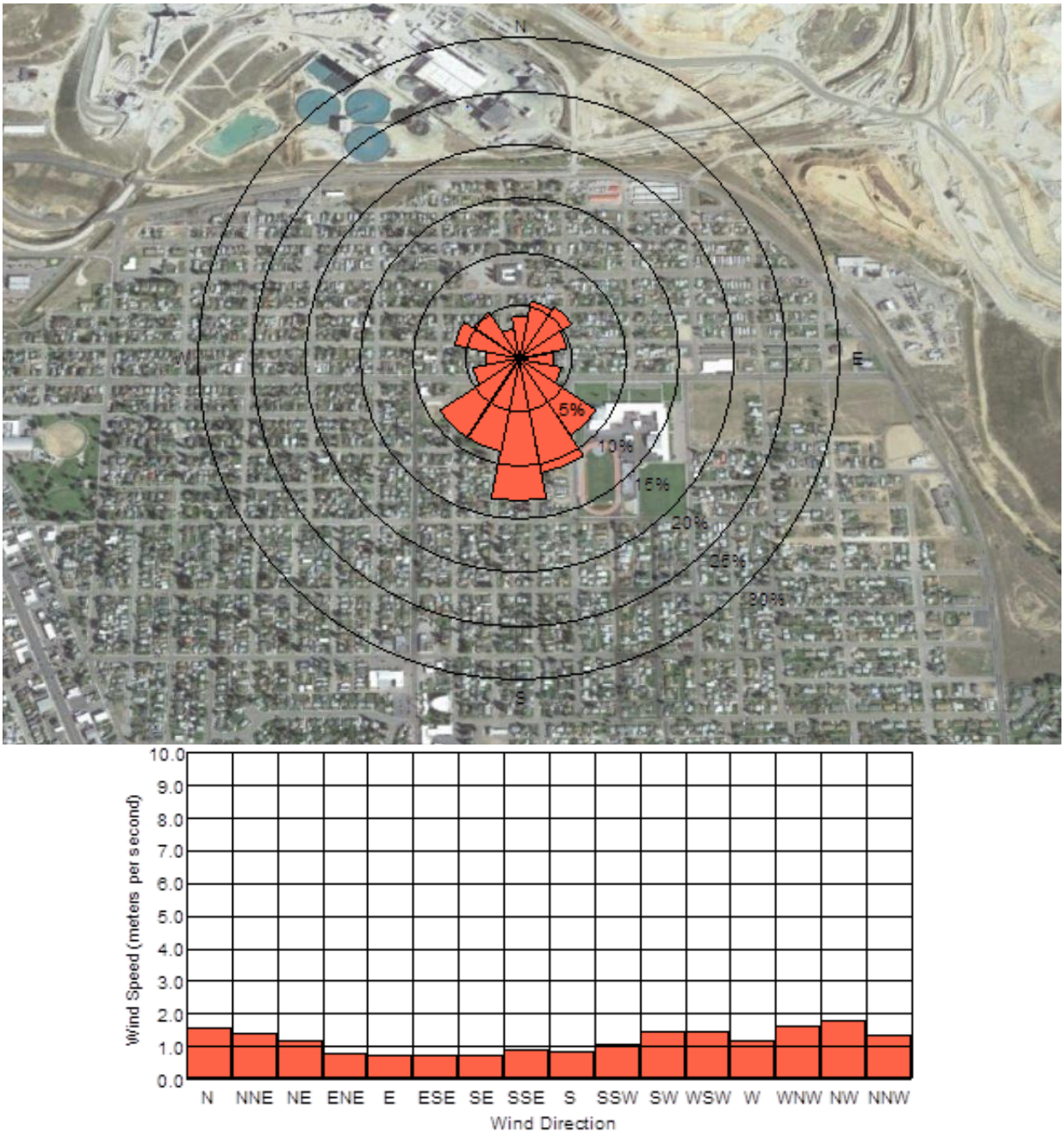
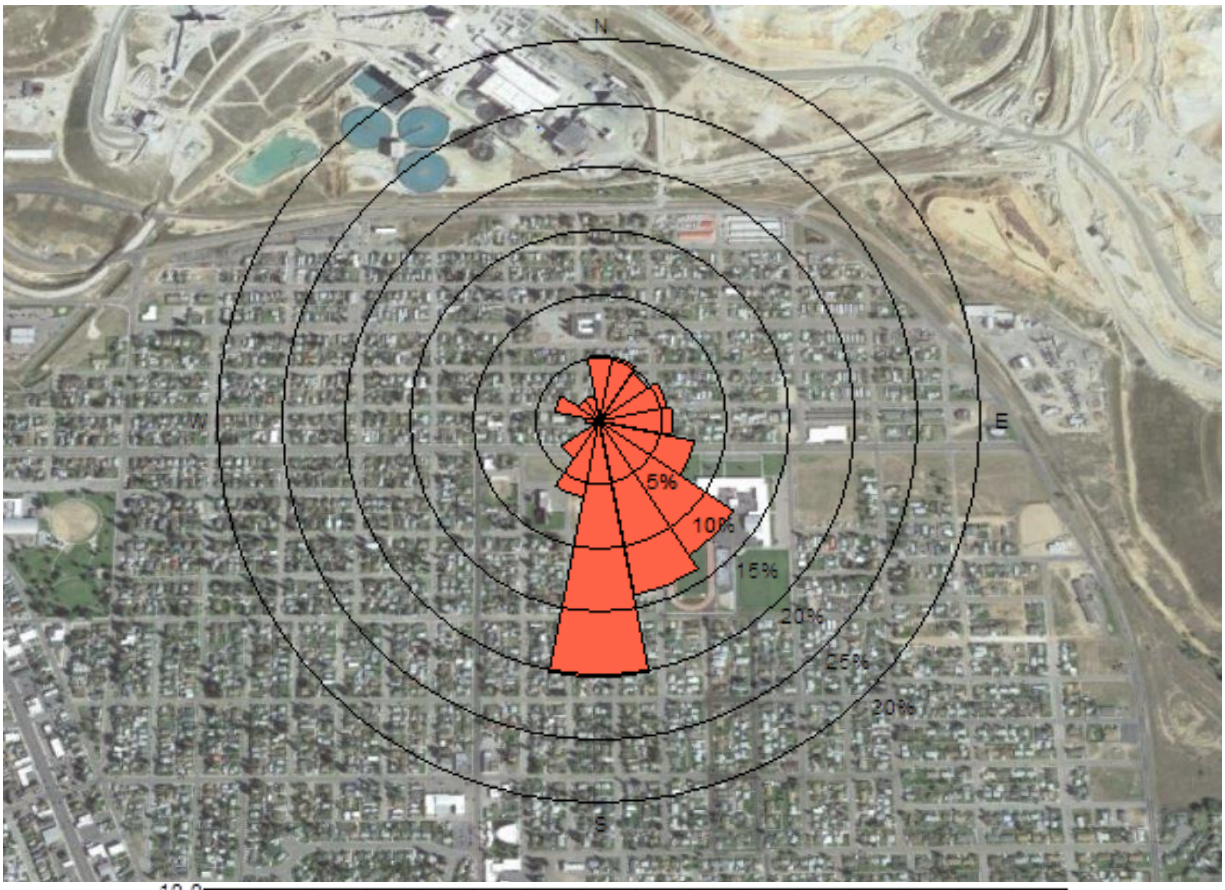


Figure 3. Quarterly Wind Rose, Greeley School (TSP >40 µg/m³)

First Quarter 2025 (direction wind was from)



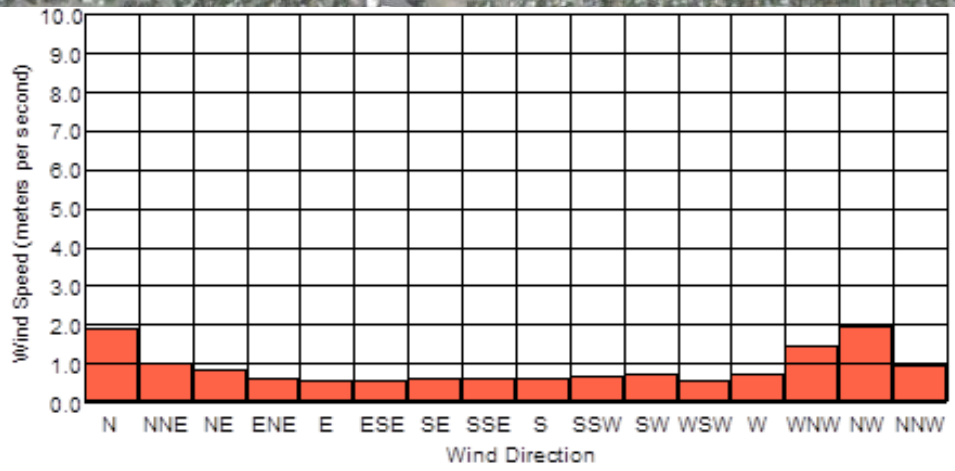
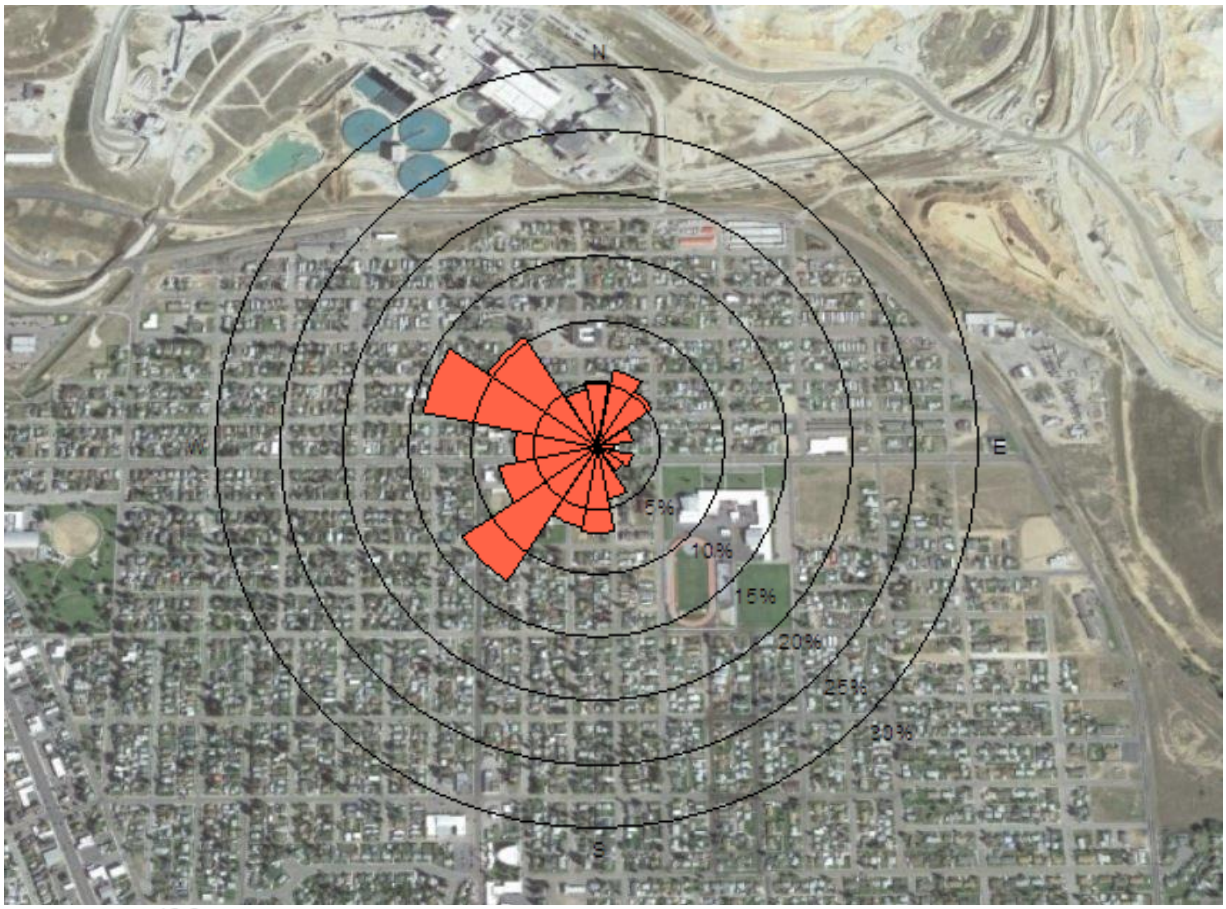
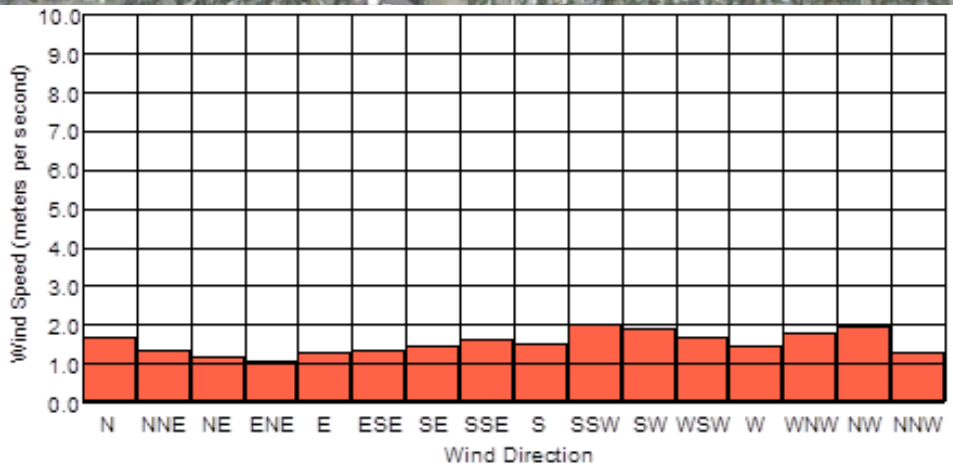


Figure 4. Quarterly Wind Rose, Greeley School (TSP <7 µg/m³)

First Quarter 2025 (direction wind was from)





5.0 CHEMICAL ANALYSIS DATA

Following gravimetric analysis, the particulate samples were submitted to Energy Laboratories, Inc. (ELI) in Billings, Montana, for elemental analysis including arsenic, cadmium, copper, lead, manganese, molybdenum and zinc. This analyte list is subject to modification as results from this monitoring are obtained, and as other information becomes available.

All samples were digested and then analyzed by ICP-MS using EPA Method E200.8. Laboratory results are presented in Appendix D and are reported in units of micrograms (µg) per filter. Fifteen TSP samples and fifteen PM_{10} samples collected during the first quarter were analyzed for trace elements, as well as five Field Blanks and five filter lot blanks (Lab Blanks). All samples were successfully collected in the normal manner.

Tables 4a and 4b summarize the total particulate mass and ELI analytical results for samples collected during the first quarter. Detectable concentrations of copper, molybdenum and zinc were found in most samples, while arsenic, cadmium and lead were often non-detectable. Table 4c shows the Field Blank and Lab Blank results associated with the first quarter samples. The bottom row of Table 4c shows the laboratory's range of Method Blank (MB) Method Detection Limit (MDL) during the quarter, which represents the minimum detectable amount of each trace element per filter. Field Blank, Lab (filter) Blank and MB concentrations for the first quarter were non-detectable, with the following exceptions:

- Low levels of molybdenum were detected in one lab blank and one Field Blank.
- Zinc was detected in one Field Blank, at a concentration barely above the zinc MDL
- The arsenic concentration in the Method Blanks associated with the TSP and PM_{10} samples collected between February 19 and March 31 was equal to the arsenic MDL (0.06 ug/filter). Because the arsenic concentrations are ***typically*** non-detectable, the effect of the method blank result is evident in those TSP and PM_{10} sample results – and also in the associated Field Blank and Lab (filter) Blank. This had a small effect on the calculated average arsenic concentrations for the first quarter:
    - If the reported arsenic concentrations for these samples are taken at face value, the quarterly average arsenic concentrations are 2.8 ng/m^3 for the TSP samples and 2.1 ng/m^3 for the PM_{10} samples.
    - If the arsenic concentrations for those samples are treated as non-detectable and set to ½ the ambient detection limit, the average concentrations decrease to 1.8 ng/m^3 for the TSP samples and 1.3 ng/m^3 for the PM_{10} samples.
- Treating the arsenic results for these samples as non-detectable causes a decrease in the average arsenic concentration of approximately 5 percent of the Guideline value

(15 ng/m^3) for the PM_{10} samples, and approximately 7 percent of the Guideline for the TSP samples.

- For purposes of this quarterly report, Table 5a and 5b report arsenic as the concentrations taken at face value per the discussion above.

Tables 5a and 5b show the calculated airborne concentration of each trace element over the indicated sampling periods. To facilitate data interpretation, the number of leading zeroes in the results has been minimized by expressing results in units of ***nanograms*** (ng) per cubic meter rather than micrograms.

- All trace element concentrations in the individual TSP samples were well below the applicable Guideline values. The closest approach to a Guideline was for manganese in the sample collected from January 21-28, with a concentration of 19 ng/m^3, or 38% of the lifetime exposure Guideline value of 50 ng/m^3. All quarterly averages for the seven trace elements were less than 20 percent of the applicable lifetime Guideline values.

- All trace element concentrations in the individual TSP samples were also well below the applicable Guideline values. The closest approach to a Guideline was for manganese in the sample collected on March 26, with a concentration of 13 ng/m^3, or 26% of the lifetime exposure Guideline value of 50 ng/m^3. All quarterly averages for the seven trace elements were less than 20 percent of the applicable lifetime Guideline values.

Table 6 shows the sources of the "Guideline" values used for these analyses, and their derivations.[9] Additionally, Table 6 shows the approximate airborne concentration corresponding to each MDL range listed in Table 4c. The detectable airborne concentrations are different for TSP and PM_{10} due to differences in typical sample volumes. A detailed table showing commonly accepted values from regulatory agencies and reputable private organizations is provided in Appendix E.

[9] The guideline values were updated (starting with the 4th quarter report 2020) to be consistent with those from the Montana Department of Public Health and Human Services (MDPHHS). Guidelines for copper and molybdenum are lower than those used in previous quarterly reports. Although MDPHHS suggested a higher guideline for manganese, the lower previously reported value was retained. Guidelines for arsenic, cadmium, lead and zinc are unchanged.

Table 4a: Summary of Analytical Results – TSP

DATE	PART MASS (µg)	As (µg)	Cd (µg)	Cu (µg)	Mn (µg)	Mo (µg)	Pb (µg)	Zn (µg)
12/30–01/06	350	ND	ND	0.87	0.21	0.051	0.045	0.49
01/06-01/09	95	ND	ND	0.20	ND	0.020	ND	ND
01/09-01/14	184	ND	ND	0.29	ND	0.025	ND	ND
01/14-01/21	523	ND	ND	0.81	0.20	0.070	0.046	0.49
01/21-01/28	952	ND	0.0053	1.5	0.36	0.11	0.093	0.87
01/28-02/03	408	ND	ND	0.51	ND	0.013	0.051	0.45
02/03-02/11	615	ND	ND	0.59	0.22	0.030	0.051	0.56
02/11-02/14	208	ND	ND	0.23	ND	0.0078	ND	ND
02/14-02/19	217	ND	ND	0.23	ND	0.020	ND	ND
02/19-02/25	137	0.067	ND	0.47	ND	0.030	ND	ND
02/25-03/05	455	0.079	ND	0.89	0.24	0.061	0.059	0.57
03/05-03/12	447	0.091	ND	0.96	0.26	0.063	0.068	0.50
03/12-03/18	166	0.088	ND	0.41	ND	0.050	ND	ND
03/18-03/25	183	0.065	ND	0.42	ND	0.026	ND	0.34
03/25-03/31	292	0.070	ND	0.76	0.21	0.050	0.047	0.45

All values are micrograms per filter. ND denotes not detected.

Table 4b: Summary of Analytical Results – PM_{10}

DATE	PART MASS (µg)	As (µg)	Cd (µg)	Cu (µg)	Mn (µg)	Mo (µg)	Pb (µg)	Zn (µg)
01/01	155	ND	ND	0.52	ND	0.030	ND	0.30
01/07	296	ND	ND	0.26	ND	0.011	ND	0.37
01/13	243	ND	ND	0.44	ND	0.020	ND	0.42
01/19	263	ND	ND	0.29	ND	0.020	ND	ND
01/25	380	ND	0.0055	0.44	ND	0.026	0.060	0.53
01/31	526	ND	ND	0.51	0.25	0.024	0.061	0.64
02/06	192	ND	ND	0.35	ND	0.013	ND	ND
02/12	483	ND	ND	0.19	ND	0.011	ND	0.36
02/18	294	ND	ND	ND	ND	0.017	ND	0.42
02/24	126	0.077	ND	2.8	ND	0.052	0.076	0.47
03/02	578	0.090	0.0054	1.1	0.27	0.020	0.078	0.62
03/08	347	0.080	ND	0.71	0.26	0.046	0.063	0.62
03/14	207	0.079	ND	0.42	ND	0.016	ND	0.34
03/20	223	0.070	ND	0.37	0.27	0.030	ND	0.44
03/26	531	0.080	ND	1.7	0.31	0.039	0.080	0.67

All values are micrograms per filter. ND denotes not detected.

Table 4c: Summary of Analytical Results – Blanks

DATE	PART MASS (µg)	As (µg)	Cd (µg)	Cu (µg)	Mn (µg)	Mo (µg)	Pb (µg)	Zn (µg)
02/20-LB	3	ND	ND	ND	ND	0.0093	ND	ND
01/06-FB	14	ND	ND	ND	ND	ND	ND	ND
02/27-LB	3	ND	ND	ND	ND	ND	ND	ND
01/28-FB	9	ND	ND	ND	ND	ND	ND	ND
03/11-LB	-1	ND	ND	ND	ND	ND	ND	ND
02/19-FB	4	ND	ND	ND	ND	ND	ND	ND
04/08-LB	18	0.075	ND	ND	ND	ND	ND	ND
03/18-FB	4	0.069	ND	ND	ND	ND	ND	0.39
05/01-LB	5	0.065	ND	ND	ND	ND	ND	ND
04/02-FB	30	0.063	ND	ND	ND	0.024	ND	ND
Lab Method Blank MDL		0.06	0.004-0.006	0.2	0.2	0.005-0.006	0.04	0.3

All values are micrograms per filter. ND denotes not detected.
LB denotes laboratory filter blank. FFB denotes field filter blank.

Table 5a: Summary of Airborne Trace Element Concentrations – TSP

DATE	Sample Volume (m^3)	As (ng/m^3)	Cd (ng/m^3)	Cu (ng/m^3)	Mn (ng/m^3)	Mo (ng/m^3)	Pb (ng/m^3)	Zn (ng/m^3)
12/30–01/06	19.22	ND	ND	45	11	2.7	2.3	25
01/06-01/09	8.01	ND	ND	25	ND	2.5	ND	ND
01/09-01/14	13.96	ND	ND	21	ND	1.8	ND	ND
01/14-01/21	19.22	ND	ND	42	10	3.6	2.4	25
01/21-01/28	19.22	ND	0.28	78	19	5.7	4.8	45
01/28-02/03	16.47	ND	ND	31	ND	0.79	3.1	27
02/03-02/11	21.85	ND	ND	27	10	1.4	2.3	26
02/11-02/14	8.24	ND	ND	28	ND	0.95	ND	ND
02/14-02/19	13.38	ND	ND	17	ND	1.5	ND	ND
02/19-02/25	16.93	4.0	ND	28	ND	1.8	ND	ND
02/25-03/05	21.96	3.6	ND	41	11	2.8	2.7	26
03/05-03/12	18.99	4.8	ND	51	14	3.3	3.6	26
03/12-03/18	15.79	5.6	ND	26	ND	3.2	ND	ND
03/18-03/25	19.68	3.3	ND	21	ND	1.3	ND	17
03/25-03/31	16.47	4.2	ND	46	13	3.0	2.9	27
Average (ng/m^3) *		2.8	0.14	35	9.1	2.4	2.2	20
Guideline (ng/m^3) **		15	10	2,000	50	400	150	47,619

* Rather than treat non detectable (ND) data as zero, the mean was calculated using ½ of the detectable value (Table 6) for the parameter and sample group in question.

**The guideline values, except lead (Pb), are applicable to a lifetime or chronic exposure. The lead (Pb) guideline is an ambient air quality standard applicable to a 3-month average. The quarterly average lead concentration of 2.2 ng/m^3 was 1 percent of the guideline value; non-detect lead concentrations were set at ½ of the lead detection limit for the sample group in question.

Table 5b: Summary of Airborne Trace Element Concentrations – PM_{10}

DATE	Sample Volume (m^3)	As (ng/m^3)	Cd (ng/m^3)	Cu (ng/m^3)	Mn (ng/m^3)	Mo (ng/m^3)	Pb (ng/m^3)	Zn (ng/m^3)
01/01	24.03	ND	ND	22	ND	1.2	ND	12
01/07	24.03	ND	ND	11	ND	0.46	ND	15
01/13	24.02	ND	ND	18	ND	0.83	ND	17
01/19	24.03	ND	ND	12	ND	0.83	ND	ND
01/25	24.02	ND	0.23	18	ND	1.1	2.5	22
01/31	24.03	ND	ND	21	10	1.0	2.5	27
02/06	24.03	ND	ND	15	ND	0.54	ND	ND
02/12	24.01	ND	ND	7.9	ND	0.46	ND	15
02/18	24.03	ND	ND	ND	ND	0.71	ND	17
02/24	24.03	3.2	ND	120	ND	2.2	3.2	20
03/02	24.03	3.7	0.22	46	11	0.83	3.2	26
03/08	24.03	3.3	ND	30	11	1.9	2.6	26
03/14	24.04	3.3	ND	17	ND	0.67	ND	14
03/20	24.03	2.9	ND	15	11	1.2	ND	18
03/26	24.03	3.3	ND	71	13	1.6	3.3	28
Average (ng/m^3) *		2.1	0.11	29	6.5	1.0	1.7	18
Guideline (ng/m^3) **		15	10	2,000	50	400	150	47,619

* Rather than treat non detectable (ND) data as zero, the mean was calculated using ½ of the detectable value (Table 6) for the parameter and date in question.

**The guideline values, except lead (Pb), are applicable to a lifetime or chronic exposure. The lead (Pb) guideline is an ambient air quality standard applicable to a 3-month average.

Table 6: Summary of Airborne Trace Element Concentration Guidelines (ng/m³)

Analyte	Dose/ Risk[A]	Source	Description	Time Period	Detectable TSP[D]	Detectable PM_{10}[E]
Arsenic (inorganic)	15	EPA / DPHHS[G]	RfC[B]	Lifetime	3.64	2.50
Cadmium	10	ATSDR / DPHHS[G]	Non-cancer / CV[G]	Chronic	0.24-0.36	0.17-0.25
	200	IRIS	Cancer	Chronic		
Copper	2,000	DPHHS[G] / Michigan DEQ	RfC[B]	Chronic	12.1	8.33
Lead	150	EPA / ATSDR / DPHHS[G]	National Ambient Air Quality Standard [C]	3-month	2.43	1.67
Manganese	50	EPA	RfC[B]	Lifetime	12.1	8.33
Molybdenum	11,905 (=500,000/42) [F]	CAL/OSHA, ACGIH	CAL/OSHA, ACGIH	Chronic [F]	0.24-0.30	0.17-0.21
	400	DPHHS[G] / Michigan DEQ	CV	Chronic		
Zinc	47,619 (=2,000,000/42) [F]	ACGIH TLV	ACGIH TLV	Chronic [F]	18.2	12.5

[A] See Appendix E for definitions and listing of dose and risk assessment values reviewed to produce this summary table.
[B] RfC = Reference Concentration (EPA) is an estimate (with uncertainty added) of a continuous inhalation exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime.
[C] This standard is based on a three-month average.
[D] Based on average 6-day sampling period and total sample volume of 16.47 m³. Range reflects maximum and minimum laboratory MDLs during Q1 2025.
[E] Based on 24-hour sampling period and total sample volume of 24 m³. Range reflects maximum and minimum laboratory MDLs during Q1 2025.
[F] This value derived by dividing the OSHA/NIOSH exposure limit by 42. This was done to include a factor of 10 to account for a general population, not just healthy adults and then including another factor of 4.2 to include a year-long exposure as opposed to 8 hours per day, 5 days a week and 52 weeks per year.
[G] Reference information from letter and analysis by DPHHS (regarding Greeley School ambient data) to Butte-Silver Bow Health Department dated October 28,2020.

EPA = Environmental Protection Agency
ATSDR = Agency for Toxic Substances & Disease Registry
CV = "Comparison Value" – a term used by DPHHS (10/28/20 letter) to indicate an ATSDR (or other) guideline or reference value
DPHHS = Montana Department of Health and Human Services
RfC = Reference Concentration (see above)
RSL = EPA Regional Screening Levels (https://www.epa.gov.gov/risk/regional-screening-levels-rsls-generic-tables)
OSHA = Occupational Safety and Health Administration
ACGIH = American Congress of Governmental Industrial Hygienists
NIOSH= National Institute of Occupational Safety and Health
TLV = Threshold limit value

6.0 CALIBRATION DATA

Calibration checks of the BGI PM_{10} sampler and the Met One E-Sampler are performed in at least two months of each quarter. In the third month, an audit is performed by a different person using different calibration standards. Monthly verification checks were performed on both samplers on January 15, February 27 and March 12.[10].

Table 7 summarizes the verification checks performed each month and the applicable acceptance criteria. In the event of unsatisfactory results, corrective actions were performed as specified in the rightmost column of Table 7. Note that the E-Sampler flow rate, temperature, pressure and relative humidity sensors can only be checked and adjusted at a single point.

Table 8 summarizes the results of the calibration checks performed during the first quarter, as well as any corrective actions. Detailed verification check results are shown in Appendix F. Appendix G presents certifications for flow calibration standards used during the quarter.

Table 7: Summary of Montana Resources – Greeley School Site Calibration/ Audit Activities and Acceptance Criteria

Activity	Acceptance Criteria / Actions	
PM_{10} Sampler Calibration Checks		
Flow Verification	±4%	Multipoint recalibration if flow error exceeds ±2%
Leak Check	Investigate / correct if vacuum drop exceeds 4 cm of water in 2 minutes	
Temperature Verification	±2.0°C	Multipoint recalibration if error exceeds ±2.0°C
Pressure	±10 mmHg	Adjust calibration if error exceeds ±10 mmHg
E-Sampler Calibration Checks		
Flow Verification	±5%	Adjust calibration if error exceeds ±4%
Leak Check	≤0.3 LPM	Investigate / correct leak problem
Temperature Verification	±2.0°C	Adjust calibration if error exceeds ±2.0°C
Pressure	±10 mmHg	Adjust calibration if error exceeds ±10 mmHg
Relative Humidity	≤7% RH	Adjust calibration if error exceeds ±7% RH
Other		
PM_{10} Inlet Head	Disassemble and clean	
TSP Inlet Head	Disassemble and clean	

[10] The calibration checks performed on April 29, 2025, also are shown to demonstrate data validity through the end of the quarter.

Table 8: Summary of Quarter 1, 2025 Calibration Verification Results

Date	Calibration Check	Results	Limits	Actions
01/15/2025	BGI PM_{10} Flow Verification (A)	-1.5%	±4%	
	BGI PM_{10} Flow Verification (B)	+1.6%	±4%	
	BGI Ambient Temperature	+1.0°C	±2.0°C	
	BGI Filter Temperature	-1.0°C	±2.0°C	
	BGI Ambient Pressure	-2.1 mm Hg	±10 mmHg	
	BGI Leak Test (pressure drop)	1 cm H_2O	≤4 cm H_20	
	E-Sampler Flow Verification (A)	+1.5%	±5%	
	E-Sampler Flow Verification (B)	-1.5%	±5%	
	E-Sampler Ambient Temperature	+2.1°C	±2.0°C	C
	E-Sampler Ambient Pressure	-167 Pa	±1333 Pa	
	E-Sampler Leak Test	0.0 LPM	≤0.3 LPM	
	E-Sampler Relative Humidity	-5.6% RH	±7% RH	
02/27/2025	BGI PM_{10} Flow Verification (A)	-1.3%	±4%	
	BGI PM_{10} Flow Verification (B)	+1.3%	±4%	
	BGI Ambient Temperature	0.0°C	±2.0°C	
	BGI Filter Temperature	+0.1°C	±2.0°C	
	BGI Ambient Pressure	-3.1 mm Hg	±10 mmHg	
	BGI Leak Test (pressure drop)	1 cm H_2O	≤4 cm H_20	
	E-Sampler Flow Verification (A)	-0.5%	±5%	
	E-Sampler Flow Verification (B)	+0.5%	±5%	
	E-Sampler Ambient Temperature	+0.3°C	±2.0°C	
	E-Sampler Ambient Pressure	-96 Pa	±1333 Pa	
	E-Sampler Leak Test	0.0 LPM	≤0.3 LPM	
	E-Sampler Relative Humidity	-1.0% RH	±7% RH	
03/12/2025	BGI PM_{10} Flow Verification (A)	-2.9%	±4%	
	BGI PM_{10} Flow Verification (B)	+2.9%	±4%	
	BGI Ambient Temperature	+0.1°C	±2.0°C	
	BGI Filter Temperature	-0.4°C	±2.0°C	
	BGI Ambient Pressure	-3.2 mm Hg	±10 mmHg	
	BGI Leak Test (pressure drop)	1 cm H_2O	≤4 cm H_20	
	E-Sampler Flow Verification (A)	-0.5%	±5%	
	E-Sampler Flow Verification (B)	+0.5%	±5%	
	E-Sampler Ambient Temperature	-0.9°C	±2.0°C	
	E-Sampler Ambient Pressure	-45 Pa	±1333 Pa	
	E-Sampler Leak Test	0.0 LPM	≤0.3 LPM	
	E-Sampler Relative Humidity	+1.0% RH	±7% RH	

Date	Calibration Check	Results	Limits	Actions
04/29/2025	BGI PM_{10} Flow Verification (A)	-0.9%	±4%	
	BGI PM_{10} Flow Verification (B)	+1.0%	±4%	
	BGI Ambient Temperature	+0.2°C	±2.0°C	
	BGI Filter Temperature	-0.1°C	±2.0°C	
	BGI Ambient Pressure	-3.7 mm Hg	±10 mmHg	
	BGI Leak Test (pressure drop)	0 cm H_2O	≤4 cm H_20	
	E-Sampler Flow Verification (A)	-0.5%	±5%	
	E-Sampler Flow Verification (B)	+0.5%	±5%	
	E-Sampler Ambient Temperature	-1.0°C	±2.0°C	
	E-Sampler Ambient Pressure	-135 Pa	±1333 Pa	
	E-Sampler Leak Test	0.0 LPM	≤0.3 LPM	
	E-Sampler Relative Humidity	+0.2% RH	±7% RH	

Codes:
A = Difference of reported flow from reference standard flow.
B = Difference of reference standard flow from design flow (16.7 LPM for BGI, 2.0 LPM for E-Sampler).
C = Intense sun and calm conditions. Adjusted temp to read 9.2C at reference temp of 8.3C.

7.0 QUARTERLY AUDIT/CALIBRATION RESULTS

An audit is performed once in each full calendar quarter. The checks and acceptance criteria are identical to those for monthly calibrations (see Table 7). The primary difference is that the audits are performed by a different person, using different calibration standards. Calibration adjustments then are made as necessary, based on the as-found audit results. The first quarter audit was performed on March 12, 2025. All audit results were satisfactory.

Table 9: Quarter 1, 2025 Audit Results

BGI PQ200 PM10 Sampler – Performance Audit			
Date: 03/12/2025	Time: 1210-1225 MST	Sampler Serial Number: 1622 (Greeley)	
Performed By: Daniel Bitz		Observer: Steve Heck	
1) Swift 25.0 SN D16202		Certification Date: 1) 07-15-2024	
Barometric Pressure Sensor Verification			
Reading (mm Hg)	Sampler (a)	Audit (b)	Difference (a - b) (must be ≤ ± 10)
Ambient Pressure	610.0	614.0 mm	-4.0
Temperature Sensor Verification			
Reading (degrees Celsius)	Sampler (a)	Audit (b)	Difference (a - b) (must be ≤ ± 2ºC)
Ambient Temperature	10.2	9.9	+0.3
Filter Temperature	10.8	10.6	+0.2
Leak Check			
Vacuum Readings (cm H_2O)	Start 96	End 95	Pass ~~Fail~~
Flow Rate Verification			
Reading (liters per minute)	Sampler (a)	Audit (b)	% Difference 100*(a – b)/b (must be ≤ ± 4%)
Operating flow rate check	16.70	16.64	+0.4%
Reading (liters per minute)	Audit (b)	Design Flow Rate Standard (c)	% Difference 100*(b–16.7)/16.7 (must be ≤ ± 5%)
Design flow rate calculation	16.64	16.70	-0.4%
Comments: Removed exposed filter to do audit			

Met One E-Sampler – ~~Monthly Calibration Check~~ / Quarterly Audit			
Date: 03/12/2025	Time: 1225-1245 MST	Sampler Serial Number: X24429	
Performed By: Daniel Bitz		Location (field or lab): Greeley School	
Ref Standard & S/N: 1) Tetra Cal S/N 149645		Certification Date: 1) 01-13-2025	
Barometric Pressure Sensor Verification			
Reading (Pascals)	Sampler (a)	Reference Standard (b)	Difference (a - b) (limit ≤ ±1333 Pa)
Ambient Pressure	81,868 Pa	613.5 mmHg =81,793 Pa	+75 Pa
Pascals = mmHg * 133.322		Limit of ±1333 Pascals = ±10 mmHg	
Temperature Sensor Verification			
Reading (degrees Celsius)	Sampler (a)	Reference Standard (b)	Difference (a - b) (must be ≤ ±2ºC)
Ambient Temperature	9.4 C	10.4 C	-1.0 C
Leak Check			
Leak Check Flow Rate	0.0 LPM	(must be <0.4 LPM)	**Pass** ~~Fail~~
Flow Rate Verification			
Reading (liters per minute)	Sampler (a)	Reference Standard (b)	% Difference 100*(a – b)/b (must be ≤ ±5%)
Audit standard flow rate check	2.0	2.01	-0.5%
Reading (liters per minute)	Reference Standard (b)	Design Flow Rate Standard (c)	% Difference 100*(b–2.0)/2.0 (must be ≤ ±5%)
Design flow rate check	2.01	2.0	+0.5%
Relative Humidity Verification (checked with Assmann Psychrometer)			
Dry Bulb Temp. °C	N/A	Calculated RH (a)	N/A
Wet Bulb Temp. °C	N/A	Sampler RH (b)	N/A
BP Inches Hg	N/A	Difference = a – b (must be ≤7% RH)	N/A

Relative humidity checked just prior to audit. Sensor Read 28% vs known of 27.0%

8.0 DATA COMPLETENESS

The percentages of data recovery for each Greeley School monitoring parameter reported by MR during the first quarter of 2025 are given in Table 10. The quarterly data recovery goal for hourly TSP is ≥80 percent,[11] and for relative humidity is ≥90 percent. The net data recovery was 99.8 percent for TSP and 100.0 percent for relative humidity. Other than routine QA/QC and filter replacement activities, the only TSP data loss was caused by a brief power outage.

Data recovery statistics for the particulate filter samples are presented in Table 11. The quarterly data recovery goal for TSP and PM_{10} filter samples is ≥80 percent for both the gravimetric and trace element analyses. The actual recovery was 100.0 percent for both TSP and PM_{10}.

[11] The number of possible hourly TSP values counts only hours when the ambient relatively humidity was less than 90 percent of the possible maximum. This determination is discussed in Section 4.0.

Table 10: Quarterly Data Completeness Summary – Hourly Data

Montana Resources LLP – Greeley School					
Parameter	Readings Possible[A]	Valid Readings	Percent Recovery	QA/QC Hours[B]	Net Percent Recovery
January 2025					
TSP	567	560	98.8	7	100.0
Relative Humidity	744	744	100.0	0	100.0
Total	1311	1304	99.5	7	100.0
February 2025					
TSP	564	557	98.8	7	100.0
Relative Humidity	672	672	100.0	0	100.0
Total	1236	1229	99.4	7	100.0
March 2025					
TSP	712	703	98.7	6	99.6
Relative Humidity	744	743	99.9	0	99.9
Total	1456	1446	99.3	6	99.7
Quarter 1, 2025					
TSP	1843	1820	98.8	20	99.8
Relative Humidity	2160	2159	100.0	0	100.0
Total	4003	3979	99.4	20	99.9

[A] Only hours with relative humidity <90 percent of maximum value are counted as ***possible*** TSP data hours. See discussion in Section 4.1.
[B] Includes hours affected by filter changes, which usually occur every 5 to 7 days.

Table 11: Quarterly Data Completeness Summary – Filter Analysis Data

Montana Resources LLP – Greeley School			
Parameter	Readings Possible	Valid Readings	Percent Recovery
January 2025			
TSP – Gravimetric	5	5	100.0
TSP – Trace Elements	35	35	100.0
PM_{10} – Gravimetric	6	6	100.0
PM_{10} – Trace Elements	42	42	100.0
Total	88	88	100.0
February 2025			
TSP – Gravimetric	5	5	100.0
TSP – Trace Elements	35	35	100.0
PM_{10} – Gravimetric	4	4	100.0
PM_{10} – Trace Elements	28	28	100.0
Total	72	72	100.0
March 2025			
TSP – Gravimetric	5	5	100.0
TSP – Trace Elements	35	35	100.0
PM_{10} – Gravimetric	5	5	100.0
PM_{10} – Trace Elements	35	35	100.0
Total	80	80	100.0
Quarter 1, 2025			
TSP – Gravimetric	15	15	100.0
TSP – Trace Elements	105	105	100.0
PM_{10} – Gravimetric	15	15	100.0
PM_{10} – Trace Elements	105	105	100.0
Total	240	240	100.0

9.0 COMPARISON TO AMBIENT AIR QUALITY STANDARDS

This study is not intended to determine compliance with the NAAQS[12] or the Montana ambient air quality standards[13] (MAAQS). Nonetheless, a generalized comparison is possible. The filter-based PM_{10} data collected by MR indicate ambient PM_{10} concentrations far below the 24-hour standard of 150 μg/m³ that otherwise applies to the NAAQS and MAAQS.

Similarly, the lead concentrations analyzed from the exposed TSP filters indicate quarterly average airborne concentrations well below the 0.15 μg/m³ ambient NAAQS based on a 3-month average of the 24-hour samples. The MAAQS is 1.5 μg/m³ and is based on a 90-day rolling average of 24-hour samples. The TSP samples presented herein were typically collected over 5- to 8-day periods, at a much lower sampling rate (2.0 liters per minute) compared to the standard method (≥40 standard cubic feet per minute). Nonetheless, the results indicate quarterly average ambient lead concentrations below the MAAQS and NAAQS. Table 12 summarizes these comparisons through the first quarter of 2025.

Additionally, the analyses presented in Section 5.0 indicate that individual (per sample) airborne concentrations of the other six trace elements were each below the Guidelines presented in Table 6. The quarterly average concentrations for all COCs were well below their respective ***Lifetime*** Guideline values.

Table 12: Summary of Airborne Concentration vs. NAAQS

Analyte	Observed Concentration (μg/m³)	Averaging Period	Ambient Standard (μg/m³)	Authority
PM_{10}	24[1]	24-hour (max)	150	NAAQS & MAAQS
Pb	0.005[2] 0.002[3]	90-day	1.50	MAAQS
		3-month	0.15	NAAQS
TSP	20[4]	Annual	75[4]	NAAQS & MAAQS

[1] Denotes maximum value from BGI filter-based PM_{10} sampler. Maximum value from MDEQ BAM-1020 sampler on sixth-day runs was 31 μg/m³.

[2] This value was the maximum from the filter-based TSP sampler, collected over a 7-day sampling period. A maximum 24-hour value of 0.003 μg/m³ was reported from the filter-based PM_{10} sampler.

[3] This value was the quarterly average from the filter-based TSP sampler. Non-detect results were set to ½ of the sample group detection limit when calculating the average.

[4] Historical TSP standard shown for comparison purposes is no longer in effect. NAAQS standard for TSP was based on geometric mean and MAAQS on arithmetic average. Value shown represents arithmetic average for monitoring period of Quarter 1, 2025, based on gravimetric filter analysis.

[12] 40 CFR 50 *et seq.*
[13] ARM 17.8.223

APPENDIX A: VALIDATED AMBIENT MONITORING DATA BY MONTH, FIRST QUARTER 2025

TABLE A-1: MISSING DATA CODES[1]			
Letter Code	**Mnemonic Code**	**Description**	**Number Code**
AF	Sc	Scheduled but Not Collected	9972
AH	Fl	Sample Flow Rate Out of Limits / Flow Fail Alarm	9974
AK	Lk	Filter Leak	9977
AM	Mi	Miscellaneous Void	9979
AN	ND	Machine Malfunction	9980
AO	Wx	Bad Weather[2]	9981
AQ	Co	Collection Error	9983
AV	Pw	Power Failure	9988
AZ	Au	QC Audit (internal audit)	9992
BA	Ma	Maintenance[3]	9993
BC	Ca	Multipoint Calibration	9995
BF	Pz	Zero / Span / Precision Check (used for single-point calibration checks and leak checks)	9998

[1]The list of codes in this table is not exhaustive but includes those commonly used for this site (and includes all codes applicable to the data collected during the current quarter).

[2]For this project, denotes that hourly TSP value is considered unreliable due to ambient relative humidity exceeding 90 percent of the maximum value.

[3]Includes routine changeout of sampling filters in TSP monitor.

Montana Resources LLP
Greeley School Air Monitoring Summary
TSP - Met One E-Sampler (micrograms per cubic meter)
January 2025

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	117	92	58	59	AO	36	38	43	31	26	20	17	5	12	21	7	7	18	34	25	39	27	58	88	38	117	5
2	45	39	23	15	19	17	43	AO	43	92	47	35	43	50	23	23	38	44	40	66	47	70	66	46	42	92	15
3	81	31	38	32	56	53	60	AO	AO	AO	51	32	31	23	27	18	37	22	46	67	75	32	47	31	42	81	18
4	38	39	32	37	21	27	17	14	AO	12	16	4	3	9	2	4	3	9	11	49	42	57	39	34	23	57	2
5	26	AO	AO	AO	AO	60	73	62	66	71	39	51	55	43	35	34	32	33	39	16	42	AO	AO	AO	46	73	16
6	AO	AO	AO	AO	AO	AO	AO	AO	AO	44	36	24	9	6	BA	2	2	5	8	20	9	13	19	13	15	44	2
7	37	38	26	10	8	AO	AO	AO	AO	12	10	6	5	5	6	11	10	23	AO	AO	AO	AO	AO	AO	15	38	5
8	AO	AO	AO	AO	AO	AO	AO	AO	AO	AO	AO	38	37	40	20	6	4	2	2	2	2	6	4	3	13	40	2
9	5	29	5	10	4	5	AO	AO	7	4	4	8	BA	7	6	3	4	14	27	AO	AO	AO	AO	AO	9	29	3
10	AO	AO	AO	AO	AO	AO	AO	23	36	48	46	8	4	7	4	6	5	4	4	5	3	7	3	3	13	48	3
11	5	2	1	9	6	3	35	33	5	1	2	3	3	4	2	6	4	11	5	9	10	11	25	14	9	35	1
12	16	12	5	AO	AO	9	7	3	8	6	2	2	3	3	3	2	6	16	6	11	54	17	AO	AO	10	54	2
13	AO	19	AO	AO	AO	AO	AO	26	4	5	2	2	3	2	2	3	3	4	7	22	11	18	23	30	10	30	2
14	23	AO	AO	AO	AO	AO	AO	AO	AO	115	40	36	43	84	BA	17	14	18	9	16	32	42	46	100	42	115	9
15	AO	AO	AO	AO	AO	AO	AO	AO	AO	53	66	AZ	BF	50	59	53	48	33	47	51	AO	AO	AO	AO	51	66	33
16	AO	AO	AO	AO	AO	AO	AO	AO	AO	53	46	11	3	4	5	1	3	4	10	12	23	7	4	4	13	53	1
17	6	4	57	11	7	26	4	60	30	22	6	7	7	9	7	6	7	9	8	9	7	14	11	8	14	60	4
18	15	11	24	11	11	AO	AO	AO	AO	32	23	15	11	10	6	10	9	8	11	12	13	32	17	32	16	32	6
19	36	26	22	16	15	15	22	AO	22	45	44	32	13	7	11	26	9	12	12	9	8	11	17	36	20	45	7
20	59	AO	AO	AO	46	AO	AO	49	67	77	34	35	40	50	34	31	16	16	18	20	40	48	49	79	43	79	16
21	119	42	24	29	29	85	56	46	64	66	50	60	32	46	BA	25	16	97	6	6	12	11	90	31	45	119	6
22	36	20	63	25	10	6	14	12	16	16	10	7	11	6	6	7	9	9	20	24	35	29	AO	AO	18	63	6
23	AO	AO	AO	AO	AO	AO	AO	AO	AO	AO	44	57	66	77	81	126	46	114	134	171	165	141	104	207	110	207	44
24	159	109	137	81	17	14	2	10	27	72	11	6	35	3	128	7	5	7	5	18	18	24	63	75	43	159	2
25	AO	AO	AO	AO	AO	AO	AO	AO	AO	58	41	33	27	10	7	9	9	22	26	31	23	AO	AO	AO	25	58	7
26	AO	AO	AO	AO	AO	AO	AO	AO	AO	49	62	54	47	47	41	20	29	27	56	29	75	150	72	97	57	150	20
27	126	AO	AO	AO	AO	AO	AO	AO	AO	93	58	53	70	56	57	27	10	8	23	81	75	82	156	AO	65	156	8
28	AO	AO	AO	AO	AO	AO	AO	AO	AO	86	91	72	86	35	BA	6	5	6	31	31	31	43	53	AO	44	91	5
29	AO	AO	AO	AO	AO	AO	AO	AO	AO	153	40	33	37	30	36	41	37	19	35	51	71	65	81	AO	52	153	19
30	AO	AO	AO	AO	AO	AO	AO	AO	80	68	59	48	32	33	30	35	46	52	51	70	47	61	52	62	52	80	30
31	65	32	32	31	27	19	23	33	80	57	20	26	27	6	4	7	2	8	8	7	4	8	4	4	22	80	2
Avg	53	34	36	27	20	27	30	32	37	51	34	27	27	25	25	19	15	22	25	32	36	39	46	47	31	81	10
Max	159	109	137	81	56	85	73	62	80	153	91	72	86	84	128	126	48	114	134	171	165	150	156	207	110	207	44
Min	5	2	1	9	4	3	2	3	4	1	2	2	3	2	2	1	2	2	2	2	2	6	3	3	9	29	1

Montana Resources LLP
Greeley School Air Monitoring Summary
TSP - Met One E-Sampler (micrograms per cubic meter)
February 2025

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	8	13	2	0	0	0	2	1	2	1	1	7	0	4	2	2	4	3	5	10	29	6	8	54	7	54	0
2	37	126	30	4	1	4	4	4	1	2	1	2	5	6	3	6	4	AO	AO	AO	AO	AO	AO	AO	14	126	1
3	AO	9	6	6	16	13	15	13	27	15	17	12	15	13	BA	24	23	26	38	26	22	40	32	22	20	40	6
4	24	21	20	21	20	22	20	23	26	24	24	30	34	40	22	29	24	25	21	29	34	33	34	32	26	40	20
5	27	26	24	27	23	21	54	25	63	19	20	28	27	29	29	23	13	8	12	24	25	11	19	4	24	63	4
6	6	18	9	5	10	9	5	6	13	22	16	1	0	2	4	2	2	9	17	AO	AO	AO	AO	AO	8	22	0
7	11	8	AO	AO	AO	12	102	AO	AO	38	9	19	44	15	11	9	21	11	16	AO	36	39	23	28	25	102	8
8	108	22	17	24	17	17	16	22	35	29	41	56	51	27	7	4	5	11	30	29	48	56	77	78	34	108	4
9	53	81	148	120	66	53	93	34	21	17	12	14	10	11	5	4	11	4	23	93	53	AO	AO	AO	44	148	4
10	AO	AO	AO	52	35	29	16	24	55	65	17	10	7	9	11	12	14	12	16	AO	AO	AO	AO	AO	24	65	7
11	AO	AO	AO	AO	AO	AO	AO	AO	111	52	41	44	45	BA	BA	7	7	7	16	14	45	29	19	17	32	111	7
12	AO	AO	AO	AO	14	AO	AO	28	31	36	32	17	21	22	12	13	7	15	21	31	30	AO	AO	AO	22	36	7
13	AO	AO	44	AO	AO	19	88	45	47	47	34	35	37	28	25	25	27	16	18	23	25	23	28	37	34	88	16
14	25	37	30	18	21	21	31	19	18	25	15	13	7	BA	13	14	5	6	AO	AO	AO	AO	AO	AO	19	37	5
15	AO	AO	2	2	2	2	3	4	3	1	2	1	2	0	3	2	1	4	5	10	20	50	40	50	10	50	0
16	24	19	7	AO	AO	AO	AO	AO	28	11	19	15	19	19	11	9	7	7	7	AO	AO	AO	AO	AO	14	28	7
17	AO	AO	AO	AO	AO	AO	AO	37	40	33	26	17	4	10	11	12	20	17	AO	AO	25	18	20	AO	21	40	4
18	32	AO	AO	AO	AO	AO	AO	AO	32	35	30	29	12	11	4	11	15	17	9	13	13	12	25	18	19	35	4
19	26	21	20	34	18	AO	AO	AO	52	30	BA	16	14	11	13	13	16	17	20	12	AO	AO	AO	AO	21	52	11
20	AO	AO	AO	AO	AO	AO	AO	31	37	40	15	6	2	1	1	1	1	1	9	7	10	17	11	11	12	40	1
21	12	15	12	4	18	19	30	32	13	13	10	6	5	0	2	1	7	7	9	4	15	20	26	34	13	34	0
22	44	AO	AO	AO	14	9	7	12	21	26	7	4	6	1	2	2	2	3	5	2	9	9	14	26	11	44	1
23	10	6	5	8	6	1	4	4	6	2	1	1	1	0	4	2	1	2	1	3	2	2	6	5	3	10	0
24	2	1	1	1	0	0	1	8	2	1	2	1	1	1	1	1	1	4	12	12	4	5	8	15	4	15	0
25	4	9	3	5	2	4	1	2	2	2	1	0	0	1	BA	1	1	2	4	2	2	10	6	13	3	13	0
26	9	2	1	0	1	4	5	8	8	2	1	0	0	0	0	2	0	3	3	15	29	30	28	19	7	30	0
27	25	23	25	AO	AO	AO	AO	AO	37	21	22	24	31	21	BF	7	6	8	30	19	13	37	25	21	22	37	6
28	31	29	58	22	56	53	35	63	45	35	39	41	31	19	9	4	14	18	21	18	29	33	30	24	32	63	4
Avg	26	26	23	20	17	16	27	20	29	23	17	16	15	12	9	9	9	10	15	19	24	24	24	27	18	55	5
Max	108	126	148	120	66	53	102	63	111	65	41	56	51	40	29	29	27	26	38	93	53	56	77	78	44	148	20
Min	2	1	1	0	0	0	1	1	1	1	1	0	0	0	0	1	0	1	1	2	2	2	6	4	3	10	0

Montana Resources LLP
Greeley School Air Monitoring Summary
TSP - Met One E-Sampler (micrograms per cubic meter)
March 2025

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	35	22	28	28	AO	AO	AO	AO	63	32	30	39	32	30	10	7	7	12	49	27	41	46	83	63	34	83	7
2	129	77	60	41	AO	AO	AO	AO	23	17	26	36	20	14	6	8	6	12	26	34	30	19	14	25	31	129	6
3	39	55	90	20	25	20	19	18	15	14	12	12	10	7	6	9	11	7	11	14	12	11	AO	AO	20	90	6
4	7	2	AO	AO	AO	AO	AO	AO	3	3	6	27	21	14	14	7	5	4	7	9	10	8	32	18	11	32	2
5	35	62	30	18	6	3	10	10	9	3	1	1	2	3	BA	4	5	7	14	10	28	31	34	21	15	62	1
6	33	95	89	35	27	30	21	29	18	13	7	6	6	9	28	12	52	77	64	44	24	3	5	9	31	95	3
7	23	41	50	82	AO	AO	AO	AO	30	22	26	19	12	7	3	5	6	5	6	6	11	16	20	30	21	82	3
8	35	25	18	27	25	24	33	23	34	40	44	15	8	5	9	12	9	9	23	30	26	27	21	16	22	44	5
9	9	13	4	4	10	40	35	45	41	21	19	21	6	9	7	14	7	7	8	10	15	7	8	15	16	45	4
10	10	11	9	9	17	71	42	25	9	10	14	8	7	11	6	7	6	6	7	35	18	39	83	63	22	83	6
11	85	77	15	4	11	17	22	39	10	7	7	11	8	9	9	9	6	8	9	16	10	11	35	58	21	85	4
12	65	99	46	20	19	54	30	46	62	54	32	BF	AV	BA	13	11	13	12	23	53	53	33	6	6	36	99	6
13	9	11	10	10	11	12	11	24	16	9	5	3	3	5	4	6	4	5	7	6	7	3	3	6	8	24	3
14	5	4	5	4	7	12	19	24	AV	AV	9	22	12	4	1	4	5	7	5	11	23	36	36	67	15	67	1
15	54	34	13	5	14	19	23	16	11	5	4	5	7	4	14	7	7	1	9	17	15	11	14	27	14	54	1
16	17	31	14	2	2	4	4	11	4	4	4	1	1	3	2	2	3	4	2	6	3	AO	2	4	6	31	1
17	4	7	6	5	14	16	9	7	9	9	6	3	3	2	2	2	3	3	42	5	6	6	3	11	8	42	2
18	9	4	6	4	6	7	6	7	BA	2	3	2	16	29	167	2	134	2	60	2	2	2	3	5	21	167	2
19	10	92	103	69	AO	AO	AO	37	6	5	4	2	3	3	3	3	3	6	9	10	16	3	9	8	19	103	2
20	13	5	4	5	6	12	11	11	8	5	6	2	4	3	3	5	4	7	7	4	2	2	8	3	6	13	2
21	14	1	2	2	3	2	1	3	6	2	1	2	2	1	2	3	2	2	5	7	7	8	2	2	3	14	1
22	2	3	3	1	42	1	0	5	3	33	20	2	3	2	4	3	3	3	3	4	8	6	7	10	7	42	0
23	8	7	21	11	7	19	12	21	7	6	3	3	1	1	2	1	2	2	1	1	5	12	6	8	7	21	1
24	3	3	3	2	5	3	1	3	3	3	2	3	2	2	2	1	1	2	1	2	3	4	7	6	3	7	1
25	4	6	19	5	8	13	21	16	8	3	3	2	BA	6	6	2	4	6	7	19	17	14	15	15	10	21	2
26	18	18	25	22	42	72	162	97	45	67	61	28	18	10	8	6	7	6	25	40	21	14	12	18	35	162	6
27	17	19	23	28	29	61	62	64	65	64	47	41	17	18	13	19	13	13	14	29	31	19	19	29	31	65	13
28	32	44	39	36	29	15	29	51	14	6	7	4	4	2	4	4	4	7	6	6	3	3	11	11	15	51	2
29	8	9	1	1	2	1	3	6	3	4	1	2	3	2	1	0	2	0	1	3	4	AO	8	1	3	9	0
30	1	3	3	AO	AO	AO	2	3	4	6	3	4	3	7	3	1	2	2	2	3	4	7	6	9	4	9	1
31	6	7	4	6	31	32	AO	55	31	21	20	15	BA	22	26	18	18	7	22	29	15	AO	AO	AO	20	55	4
Avg	24	29	25	17	16	22	24	26	19	16	14	11	8	8	13	6	11	8	15	16	15	14	18	19	16	61	3
Max	129	99	103	82	42	72	162	97	65	67	61	41	32	30	167	19	134	77	64	53	53	46	83	67	36	167	13
Min	1	1	1	1	2	1	0	3	3	2	1	1	1	1	1	0	1	0	1	1	2	2	2	1	3	7	0

Montana Resources LLP
Greeley School Air Monitoring Summary
Relative Humidity (% RH)
January 2025

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	78	78	78	80	82	79	77	77	76	76	77	67	60	68	67	68	71	77	81	81	80	79	80	80	76	82	60
2	80	82	84	84	84	84	85	86	86	83	77	73	74	70	64	69	75	78	79	81	80	81	84	84	79	86	64
3	86	84	85	85	86	86	88	90	90	90	87	86	85	86	85	84	86	86	87	87	87	86	85	87	86	90	84
4	88	88	88	86	85	88	89	88	89	88	77	69	68	67	66	69	72	76	76	82	80	81	84	83	80	89	66
5	85	87	88	87	86	85	85	85	85	83	77	70	69	75	77	80	83	86	88	88	89	89	90	90	84	90	69
6	91	91	91	90	90	90	90	90	91	89	84	83	76	68	67	72	77	82	84	82	84	83	83	83	84	91	67
7	84	85	86	86	87	88	89	89	89	87	81	73	70	61	60	62	66	78	85	86	86	85	86	85	81	89	60
8	84	84	85	84	83	83	83	84	85	85	87	86	86	83	72	68	70	68	66	65	64	78	71	69	78	87	64
9	81	83	85	84	83	87	88	88	88	84	74	67	62	52	48	52	60	74	81	85	85	85	85	85	77	88	48
10	84	83	83	83	83	84	84	84	82	81	69	45	40	39	40	40	48	62	68	70	71	71	69	65	68	84	39
11	64	64	64	68	66	71	75	73	72	64	67	63	59	66	68	72	76	76	73	80	84	85	86	86	72	86	59
12	86	85	85	87	88	83	78	81	79	73	67	62	57	59	59	59	61	65	72	77	75	84	87	86	75	88	57
13	85	83	83	84	84	83	83	83	72	68	64	60	57	55	54	58	61	64	69	73	77	78	80	81	72	85	54
14	82	84	85	85	84	83	82	82	81	82	73	56	54	56	51	49	54	61	65	68	73	76	79	82	72	85	49
15	84	85	85	85	85	85	84	84	84	79	59	56	55	52	49	54	51	69	78	84	86	87	87	86	75	87	49
16	87	87	86	86	86	85	86	86	87	84	62	47	38	35	33	34	39	48	53	49	55	51	49	50	63	87	33
17	48	57	71	70	62	57	56	62	58	55	52	50	50	47	47	47	49	55	62	73	77	78	80	80	60	80	47
18	80	75	76	76	79	81	80	79	78	69	56	45	45	43	43	44	49	55	63	67	69	70	71	73	65	81	43
19	74	75	77	77	78	77	78	79	79	76	72	71	56	50	51	53	52	56	57	59	58	59	61	68	66	79	50
20	71	73	72	71	70	70	70	69	69	70	61	50	50	48	43	37	37	43	45	48	56	61	65	70	59	73	37
21	74	72	70	71	71	74	73	73	73	58	43	38	36	32	30	34	38	56	57	54	52	51	57	60	56	74	30
22	59	61	59	62	72	82	80	69	71	66	62	57	54	52	47	48	48	62	69	72	75	76	81	82	65	82	47
23	82	82	80	80	79	78	77	77	77	78	75	72	67	63	51	49	50	65	67	69	71	72	69	68	71	82	49
24	69	67	68	65	60	70	78	79	75	81	73	57	60	47	52	43	46	52	50	55	62	67	72	77	64	81	43
25	79	79	80	80	79	79	79	78	78	70	56	52	55	46	43	40	44	55	63	71	75	79	79	79	67	80	40
26	78	77	76	75	74	74	74	75	75	75	69	54	50	41	41	37	39	49	57	62	69	73	74	76	64	78	37
27	77	78	79	79	79	79	79	79	78	63	51	40	44	37	36	32	37	45	54	63	67	73	77	79	63	79	32
28	80	80	80	80	80	80	80	79	79	66	51	48	46	38	37	40	45	53	61	69	73	75	79	80	66	80	37
29	81	81	80	81	81	81	81	80	80	74	53	50	47	36	36	38	37	49	59	67	75	79	80	81	66	81	36
30	83	83	82	81	82	81	81	80	78	74	65	40	39	36	34	35	39	55	66	67	67	72	70	71	65	83	34
31	71	71	70	63	42	59	66	69	71	62	52	46	43	34	37	39	41	48	50	57	61	60	58	61	55	71	34
Avg	79	79	79	79	78	80	80	80	79	75	67	59	57	53	51	52	55	63	67	71	73	75	76	77	70	83	49
Max	91	91	91	90	90	90	90	90	91	90	87	86	86	86	85	84	86	86	88	88	89	89	90	90	86	91	84
Min	48	57	59	62	42	57	56	62	58	55	43	38	36	32	30	32	37	43	45	48	52	51	49	50	55	71	30

Montana Resources LLP
Greeley School Air Monitoring Summary
Relative Humidity (% RH)
February 2025

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	64	62	59	62	63	66	66	62	60	62	74	87	84	71	66	60	44	47	55	59	65	66	67	71	64	87	44
2	70	76	68	48	56	64	68	71	82	83	77	75	74	77	80	83	85	89	90	88	88	89	90	89	78	90	48
3	87	83	85	85	80	80	80	76	74	72	73	69	69	69	71	74	78	80	81	81	78	77	75	73	77	87	69
4	74	73	72	71	71	71	70	69	69	62	60	52	51	52	59	61	64	68	68	70	70	70	70	70	66	74	51
5	70	71	72	74	72	72	77	78	76	74	71	72	67	59	57	51	46	48	53	66	64	62	65	59	66	78	46
6	68	72	74	74	74	69	72	74	76	72	61	62	54	47	46	49	62	76	82	86	86	86	86	86	71	86	46
7	85	85	86	86	86	81	80	80	80	79	78	78	76	76	73	70	69	73	76	78	77	76	77	78	78	86	69
8	78	77	77	77	76	75	76	75	73	68	67	60	53	53	54	54	57	61	68	72	72	78	77	77	69	78	53
9	77	77	77	78	76	78	79	81	80	71	55	52	50	50	45	52	61	54	66	72	75	79	79	78	68	81	45
10	78	77	77	77	77	76	76	77	76	72	65	57	48	45	48	48	55	66	74	77	78	75	75	75	69	78	45
11	73	73	73	72	72	71	71	70	70	67	57	48	52	46	44	48	54	60	65	69	72	72	73	74	64	74	44
12	75	75	74	73	71	71	71	69	70	62	53	45	48	40	39	41	43	51	63	68	72	75	74	73	62	75	39
13	72	71	70	70	70	69	69	69	70	69	58	48	50	47	48	49	56	72	78	79	79	79	80	80	67	80	47
14	80	80	80	80	79	79	79	79	77	74	70	64	62	69	75	83	87	87	89	89	88	88	87	87	80	89	62
15	87	86	70	66	66	61	62	67	68	69	55	47	41	44	44	40	42	48	55	60	64	69	72	73	61	87	40
16	77	82	84	85	85	86	86	86	84	79	73	68	67	69	62	68	80	84	87	88	89	90	90	90	81	90	62
17	90	89	89	88	88	88	88	86	82	76	71	72	70	70	72	83	82	85	88	88	86	84	85	86	83	90	70
18	85	86	86	86	85	86	86	85	83	76	70	75	68	63	60	67	68	73	77	78	75	74	78	79	77	86	60
19	78	78	78	80	80	81	82	82	76	61	59	58	57	54	55	55	63	71	84	86	87	87	88	88	74	88	54
20	87	87	88	87	87	87	87	86	83	71	67	61	54	51	50	50	54	61	75	80	78	78	77	74	73	88	50
21	75	74	75	76	76	80	82	83	70	49	50	49	48	44	43	42	43	48	57	64	72	76	80	82	64	83	42
22	83	85	84	84	70	61	62	64	62	56	56	51	49	40	47	42	42	53	58	61	63	71	69	75	62	85	40
23	67	61	60	59	69	56	53	58	61	59	54	54	54	53	55	52	53	61	63	70	72	72	76	80	61	80	52
24	80	75	75	56	60	55	56	60	50	40	33	31	32	28	29	32	35	38	43	48	53	63	61	63	50	80	28
25	64	66	78	76	65	63	59	60	56	49	47	42	40	42	42	47	52	51	54	56	58	60	60	65	56	78	40
26	67	66	67	71	72	75	77	75	64	55	40	37	35	33	32	33	34	41	54	63	73	78	80	81	58	81	32
27	82	83	84	86	87	87	87	87	77	62	52	40	45	36	30	20	21	25	38	52	51	53	49	60	58	87	20
28	68	72	75	77	82	82	83	83	67	47	38	41	39	27	21	21	24	36	48	55	70	77	82	83	58	83	21
Avg	76	77	76	75	75	74	74	75	72	66	60	57	55	52	52	53	56	61	67	72	73	75	76	77	68	83	47
Max	90	89	89	88	88	88	88	87	84	83	78	87	84	77	80	83	87	89	90	89	89	90	90	90	83	90	70
Min	64	61	59	48	56	55	53	58	50	40	33	31	32	27	21	20	21	25	38	48	51	53	49	59	50	74	20

Montana Resources LLP
Greeley School Air Monitoring Summary
Relative Humidity (% RH)
March 2025

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	82	83	84	85	85	86	85	85	71	48	39	39	36	34	18	17	17	23	39	50	60	72	78	81	58	86	17
2	84	84	85	84	86	87	86	86	69	46	44	37	35	28	23	21	22	29	40	52	57	54	64	67	57	87	21
3	73	77	79	79	82	83	80	73	69	68	66	60	58	56	54	58	70	71	81	86	88	89	90	91	74	91	54
4	85	88	90	90	91	91	90	88	80	70	58	58	58	52	49	45	43	46	53	60	65	71	76	75	70	91	43
5	76	81	77	73	69	69	73	69	49	38	36	32	31	31	29	27	26	31	49	57	61	71	72	72	54	81	26
6	74	79	78	77	77	77	72	70	62	59	55	54	52	57	61	63	69	75	77	65	66	68	65	66	67	79	52
7	71	77	78	83	86	86	86	86	71	51	54	50	45	34	27	27	27	28	33	39	43	49	51	61	56	86	27
8	68	69	71	77	79	79	80	78	55	52	44	32	29	27	26	25	25	26	32	36	39	45	47	41	49	80	25
9	38	34	34	41	54	61	58	63	49	34	30	29	26	24	21	16	15	21	35	41	48	48	44	55	38	63	15
10	56	52	56	59	59	66	67	44	32	29	30	31	33	33	37	41	45	47	50	53	63	70	71	71	50	71	29
11	69	73	63	37	39	41	42	40	32	31	31	29	28	26	27	22	24	27	30	34	46	63	68	76	42	76	22
12	79	81	81	79	79	80	81	79	73	58	38	28	28	28	28	32	36	38	43	47	46	50	50	50	55	81	28
13	54	53	55	55	57	50	50	53	52	56	68	81	58	47	41	42	33	32	51	61	61	59	67	71	54	81	32
14	65	58	51	56	60	65	69	72	AV	40	41	41	39	24	24	25	29	32	36	39	44	47	52	56	46	72	24
15	61	60	59	61	66	68	69	66	52	42	39	40	36	32	46	47	65	66	55	50	53	60	55	54	54	69	32
16	55	62	62	53	55	62	66	70	69	80	71	53	43	38	35	39	46	54	69	82	84	90	85	78	63	90	35
17	71	78	80	71	75	80	82	86	80	78	69	57	49	45	67	55	50	57	75	88	80	73	84	71	71	88	45
18	64	65	64	67	68	71	66	65	58	52	43	38	70	55	62	43	75	76	74	66	67	62	61	68	63	76	38
19	70	72	76	80	84	84	84	81	53	49	44	37	34	28	26	24	22	22	28	36	39	39	40	41	50	84	22
20	39	42	41	46	49	54	54	56	58	59	58	52	35	35	31	28	30	36	56	67	65	63	64	61	49	67	28
21	59	58	59	59	60	60	59	57	54	42	38	38	36	32	32	30	28	26	30	37	45	47	48	50	45	60	26
22	52	62	86	87	83	81	66	68	63	66	62	43	41	35	35	35	30	33	37	40	47	49	54	62	55	87	30
23	68	71	72	66	65	65	63	62	53	50	49	41	39	38	41	42	41	45	52	57	61	63	69	69	56	72	38
24	65	61	62	63	66	61	55	52	52	46	41	42	43	39	36	39	39	41	48	53	57	57	56	58	51	66	36
25	63	62	65	68	71	75	78	74	61	56	51	46	36	34	28	26	25	24	31	43	50	55	61	69	52	78	24
26	72	74	78	81	83	83	83	77	54	46	38	27	21	20	20	20	21	19	21	30	37	44	53	60	48	83	19
27	64	66	70	73	72	75	75	69	60	56	45	37	23	18	22	17	17	15	15	23	29	32	37	47	44	75	15
28	52	53	54	51	59	59	64	62	46	36	33	27	25	24	24	26	30	41	53	67	83	84	87	88	51	88	24
29	88	89	87	86	85	84	88	87	74	66	59	60	81	75	62	83	77	71	72	84	85	90	89	88	80	90	59
30	83	83	86	90	91	91	86	83	86	84	83	82	78	72	72	66	64	63	65	66	68	67	66	65	77	91	63
31	73	75	77	81	83	86	88	80	72	65	62	57	50	40	48	50	56	58	64	78	89	92	92	89	71	92	40
Avg	67	68	70	70	72	73	72	70	60	53	49	44	42	37	37	36	39	41	48	54	59	62	64	66	56	80	32
Max	88	89	90	90	91	91	90	88	86	84	83	82	81	75	72	83	77	76	81	88	89	92	92	91	80	92	63
Min	38	34	34	37	39	41	42	40	32	29	30	27	21	18	18	16	15	15	15	23	29	32	37	41	38	60	15

Montana Resources LLP
Greeley School Air Monitoring Summary
Temperature - MDEQ monitor (degrees Celsius)
January 2025

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-13.1	-13.1	-13.1	-13.8	-13.6	-12.5	-11.1	-10.8	-10.3	-9.3	-7.6	-6.1	-5.0	-5.3	-4.5	-4.6	-5.3	-6.6	-8.3	-9.0	-8.8	-8.8	-9.1	-9.1	-9.1	-4.5	-13.8
2	-8.6	-8.5	-8.5	-8.0	-7.9	-7.3	-7.1	-7.1	-6.6	-5.5	-4.4	-3.9	-3.7	-2.0	-0.2	-0.4	-1.1	-1.5	-1.7	-1.7	-2.0	-2.0	-2.0	-1.8	-4.3	-0.2	-8.6
3	-2.5	-2.7	-2.7	-2.7	-2.5	-2.5	-2.5	-2.5	-2.2	-1.6	-0.4	-0.2	0.1	0.2	0.3	0.3	0.0	-0.6	-1.7	-2.7	-2.7	-2.5	-2.2	-2.0	-1.6	0.3	-2.7
4	-2.4	-2.4	-2.0	-2.0	-1.7	-1.8	-2.2	-2.7	-3.0	-2.2	-0.6	0.2	0.4	0.6	0.8	0.4	-0.3	-0.8	-0.8	-1.7	-1.5	-1.8	-2.5	-3.2	-1.4	0.8	-3.2
5	-4.1	-6.3	-7.5	-8.6	-8.8	-8.0	-7.5	-7.5	-8.0	-7.0	-4.6	-2.0	-1.0	-1.1	-1.2	-1.1	-1.2	-1.7	-2.2	-2.5	-2.7	-2.9	-2.9	-2.7	-4.3	-1.0	-8.8
6	-3.0	-3.2	-3.2	-3.2	-3.5	-3.4	-3.4	-3.2	-3.4	-2.9	-1.6	-1.3	-0.3	-0.2	0.2	-1.2	-2.0	-3.7	-3.7	-3.4	-3.7	-3.7	-3.9	-4.0	-2.7	0.2	-4.0
7	-4.4	-4.5	-4.6	-4.5	-4.9	-6.8	-6.4	-5.5	-5.5	-5.0	-4.3	-3.7	-3.7	-3.5	-2.5	-2.2	-3.2	-6.0	-7.8	-9.1	-10.8	-11.6	-10.8	-11.5	-6.0	-2.2	-11.6
8	-12.1	-11.3	-11.0	-12.0	-12.8	-13.5	-12.3	-11.1	-10.5	-9.8	-7.5	-5.9	-4.4	-2.0	-0.1	0.3	-0.3	-0.5	-0.6	-0.8	-1.1	-2.5	-2.0	-2.2	-6.1	0.3	-13.5
9	-3.0	-3.2	-3.7	-3.9	-3.9	-4.4	-4.3	-4.0	-4.0	-3.5	-3.2	-1.2	-1.6	-1.0	0.6	-0.3	-2.5	-5.3	-7.1	-9.1	-10.1	-11.5	-12.3	-13.0	-4.8	0.6	-13.0
10	-13.1	-12.6	-12.6	-13.1	-12.3	-10.1	-10.1	-8.6	-7.5	-6.3	-3.2	1.7	3.0	3.2	3.6	4.9	3.9	2.3	1.4	0.9	0.2	-1.1	-1.0	-0.6	-3.6	4.9	-13.1
11	-1.0	-1.6	-2.0	-2.5	-2.7	-3.0	-3.2	-3.4	-3.2	-2.4	-2.5	-1.7	-1.2	-1.8	-2.0	-2.2	-2.7	-3.2	-3.2	-4.0	-4.1	-4.3	-4.4	-4.5	-2.8	-1.0	-4.5
12	-4.5	-4.5	-5.0	-6.1	-6.3	-5.5	-5.5	-6.0	-5.6	-4.6	-4.0	-3.2	-2.0	-2.2	-2.2	-2.5	-3.0	-3.5	-4.4	-5.0	-5.4	-7.5	-9.6	-11.3	-5.0	-2.0	-11.3
13	-11.5	-10.8	-11.3	-12.5	-13.3	-12.3	-11.8	-10.3	-6.3	-5.6	-4.6	-3.7	-3.5	-2.9	-2.5	-3.0	-3.2	-3.7	-5.1	-6.0	-6.6	-6.9	-7.8	-8.1	-7.2	-2.5	-13.3
14	-8.1	-10.1	-11.6	-12.8	-12.8	-14.3	-15.0	-14.5	-14.3	-13.1	-9.8	-6.0	-5.0	-4.5	-1.3	-0.4	-1.6	-3.7	-4.0	-4.5	-6.4	-7.5	-8.6	-9.3	-8.3	-0.4	-15.0
15	-10.1	-10.8	-11.3	-11.8	-11.8	-12.1	-12.3	-12.3	-12.1	-8.6	-4.4	-0.8	0.8	1.8	3.8	3.3	3.7	-0.8	-2.9	-4.9	-6.0	-7.0	-7.8	-8.3	-5.9	3.8	-12.3
16	-9.1	-9.8	-10.3	-10.6	-10.6	-11.1	-11.1	-10.6	-9.3	-4.5	-0.6	6.2	7.9	8.0	9.2	9.0	7.2	4.1	2.4	3.0	0.7	1.7	2.6	2.4	-1.4	9.2	-11.1
17	1.9	0.8	-0.8	-1.6	-2.0	-2.9	-4.0	-6.8	-8.5	-9.3	-9.1	-8.6	-8.1	-8.1	-8.3	-8.6	-9.1	-10.5	-11.0	-11.8	-12.6	-12.6	-12.6	-12.8	-7.4	1.9	-12.8
18	-13.1	-13.1	-13.0	-13.3	-15.1	-15.3	-15.5	-16.5	-17.0	-15.3	-12.8	-10.8	-11.3	-11.0	-10.1	-10.3	-10.8	-11.8	-12.3	-12.5	-12.6	-13.1	-13.3	-14.3	-13.1	-10.1	-17.0
19	-14.8	-15.1	-15.6	-16.1	-16.1	-15.8	-15.3	-15.1	-14.1	-12.6	-11.1	-10.5	-10.1	-9.8	-10.5	-11.6	-12.6	-14.6	-15.5	-16.7	-17.5	-18.3	-19.8	-21.6	-14.6	-9.8	-21.6
20	-23.1	-24.8	-25.5	-26.5	-26.8	-27.5	-27.7	-28.2	-27.7	-25.2	-21.7	-17.1	-15.6	-14.6	-11.3	-10.8	-11.8	-12.6	-12.6	-14.0	-15.6	-16.7	-17.6	-18.7	-19.7	-10.8	-28.2
21	-19.3	-18.8	-17.7	-18.0	-17.7	-18.2	-17.3	-17.3	-17.6	-14.5	-10.0	-5.1	-4.0	-2.7	-0.8	-1.6	-2.7	-4.5	-5.4	-5.6	-5.6	-5.4	-5.9	-6.3	-10.1	-0.8	-19.3
22	-6.3	-6.5	-6.4	-6.5	-7.4	-8.3	-9.0	-8.0	-8.3	-7.6	-6.6	-5.3	-4.8	-4.3	-3.4	-3.7	-4.0	-6.0	-7.9	-9.8	-11.1	-12.1	-14.0	-14.8	-7.6	-3.4	-14.8
23	-16.2	-17.2	-18.2	-19.0	-19.5	-20.3	-20.7	-20.8	-20.2	-17.7	-13.3	-10.8	-9.8	-8.0	-5.1	-4.0	-5.6	-7.9	-8.3	-10.0	-11.1	-12.3	-12.0	-11.1	-13.3	-4.0	-20.8
24	-10.3	-9.1	-9.3	-8.3	-4.3	-3.0	-4.1	-4.6	-4.4	-5.0	-4.5	-4.5	-5.4	-4.5	-5.9	-5.3	-5.9	-7.0	-7.4	-8.8	-10.6	-12.1	-13.1	-14.6	-7.2	-3.0	-14.6
25	-15.3	-16.6	AQ	-16.7	-16.7	-17.2	-16.6	-17.6	-18.6	-16.0	-12.3	-8.8	-8.6	-8.0	-6.4	-5.8	-6.9	-9.5	-12.0	-14.5	-16.5	-18.2	-19.1	-20.1	-13.8	-5.8	-20.1
26	-21.2	-21.7	-22.2	-22.2	-22.7	-22.6	-22.5	-22.0	-21.8	-18.6	-15.0	-11.6	-8.3	-7.5	-5.3	-4.5	-5.1	-8.3	-11.1	-12.6	-14.3	-15.6	-16.2	-17.0	-15.4	-4.5	-22.7
27	-17.7	-18.1	-18.5	-18.6	-18.7	-19.1	-19.1	-19.0	-18.2	-13.8	-10.3	-6.0	-4.9	-3.4	-2.0	-0.4	-2.5	-5.5	-8.0	-10.0	-11.3	-13.1	-14.1	-15.1	-12.0	-0.4	-19.1
28	-15.6	-16.0	-16.3	-17.2	-17.6	-18.5	-18.7	-18.8	-18.6	-13.6	-8.8	-6.0	-3.0	-2.4	-0.3	-1.1	-2.7	-5.0	-7.3	-8.8	-10.6	-11.8	-12.8	-13.6	-11.0	-0.3	-18.8
29	-14.3	-14.8	-15.1	-15.8	-16.1	-16.2	-16.7	-17.0	-16.2	-11.8	-7.0	-4.3	-0.3	0.8	2.9	3.3	3.8	-0.1	-4.0	-6.5	-9.0	-10.6	-11.8	-13.0	-8.7	3.8	-17.0
30	-14.0	-14.8	-15.1	-15.6	-16.1	-16.2	-16.6	-16.8	-15.8	-13.6	-9.8	-2.2	-0.3	1.1	3.7	5.1	4.2	0.7	-2.9	-5.0	-6.5	-8.1	-8.1	-8.6	-8.0	5.1	-16.8
31	-8.0	-7.9	-7.6	-5.6	-1.6	-5.6	-7.0	-7.6	-8.3	-5.5	-3.2	-0.8	1.1	3.3	3.0	3.1	4.2	3.0	2.0	1.0	0.8	0.3	1.1	1.5	-1.8	4.2	-8.3
Avg	-10.3	-10.6	-10.7	-11.3	-11.2	-11.5	-11.5	-11.5	-11.2	-9.4	-7.1	-4.6	-3.6	-3.0	-1.9	-1.8	-2.6	-4.3	-5.6	-6.6	-7.6	-8.4	-8.8	-9.3	-7.7	-1.0	-13.9
Max	1.9	0.8	-0.8	-1.6	-1.6	-1.8	-2.2	-2.5	-2.2	-1.6	-0.4	6.2	7.9	8.0	9.2	9.0	7.2	4.1	2.4	3.0	0.8	1.7	2.6	2.4	-1.4	9.2	-2.7
Min	-23.1	-24.8	-25.5	-26.5	-26.8	-27.5	-27.7	-28.2	-27.7	-25.2	-21.7	-17.1	-15.6	-14.6	-11.3	-11.6	-12.6	-14.6	-15.5	-16.7	-17.5	-18.3	-19.8	-21.6	-19.7	-10.8	-28.2

Montana Resources LLP
Greeley School Air Monitoring Summary
Temperature - MDEQ monitor (degrees Celsius)
February 2025

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.3	0.3	1.6	1.6	0.7	1.0	0.4	1.1	1.7	1.9	1.1	-0.5	0.5	1.6	2.0	1.7	2.4	0.2	-1.5	-2.2	-3.5	-3.2	-3.5	-4.3	0.1	2.4	-4.3
2	-4.3	-5.0	-4.5	-1.8	-1.2	-2.5	-2.9	-2.7	-2.7	-2.5	-1.7	-1.7	-1.2	-0.8	-1.2	-2.0	-2.2	-2.9	-3.0	-3.2	-3.5	-3.7	-4.0	-4.5	-2.7	-0.8	-5.0
3	-4.8	-5.4	-6.0	-6.4	-9.1	-10.1	-10.1	-10.6	-10.6	-10.3	-10.0	-8.6	-8.6	-8.6	-9.3	-9.5	-10.3	-11.3	-11.6	-12.0	-12.8	-12.6	-13.1	-14.1	-9.8	-4.8	-14.1
4	-15.1	-15.8	-15.1	-14.8	-14.8	-14.6	-14.6	-14.6	-14.8	-13.8	-12.8	-10.6	-8.3	-8.1	-9.3	-9.6	-10.3	-12.0	-12.6	-12.6	-12.6	-12.3	-12.3	-12.6	-12.7	-8.1	-15.8
5	-12.6	-13.0	-13.1	-13.3	-13.3	-13.3	-11.3	-13.5	-17.5	-16.5	-14.6	-13.8	-11.3	-9.6	-9.0	-6.4	-5.1	-6.4	-8.3	-11.8	-11.3	-11.1	-10.8	-7.1	-11.4	-5.1	-17.5
6	-8.8	-10.1	-9.1	-9.1	-10.1	-8.8	-9.0	-8.0	-7.8	-7.0	-4.5	-4.1	-3.2	-2.2	-1.7	-2.0	-3.0	-4.5	-5.0	-6.5	-7.4	-7.3	-7.5	-7.0	-6.4	-1.7	-10.1
7	-6.9	-6.8	-6.6	-6.8	-7.5	-10.1	-12.1	-13.3	-13.6	-13.6	-12.6	-12.5	-11.8	-12.1	-11.3	-11.1	-12.8	-14.6	-15.3	-16.3	-16.8	-17.2	-16.5	-16.1	-12.3	-6.6	-17.2
8	-16.2	-16.0	-16.2	-17.5	-17.7	-18.2	-18.1	-18.1	-16.8	-14.6	-11.8	-8.3	-5.3	-6.1	-5.5	-5.0	-6.1	-7.3	-8.8	-10.6	-11.8	-14.1	-13.1	-13.5	-12.4	-5.0	-18.2
9	-14.1	-14.1	-13.3	-14.1	-13.3	-12.3	-11.6	-11.3	-11.0	-9.8	-7.4	-6.0	-5.8	-6.0	-4.3	-4.9	-6.6	-7.5	-11.1	-13.8	-15.1	-16.7	-17.6	-18.6	-11.1	-4.3	-18.6
10	-19.2	-19.2	-18.5	-17.7	-17.2	-16.7	-16.1	-15.8	-15.8	-16.6	-16.1	-14.8	-13.0	-13.1	-12.6	-12.6	-13.8	-16.2	-18.5	-20.1	-20.8	-21.0	-22.7	-23.7	-17.2	-12.6	-23.7
11	-24.2	-25.2	-25.2	-25.0	-25.8	-27.1	-27.7	-28.2	-27.2	-23.1	-19.8	-17.5	-16.2	-14.3	-13.3	-14.5	-15.6	-17.0	-17.7	-18.5	-19.7	-19.7	-19.6	-20.5	-20.9	-13.3	-28.2
12	-21.3	-22.8	-24.0	-24.2	-25.8	-27.2	-27.7	-28.2	-27.0	-21.2	-20.2	-16.6	-15.8	-13.8	-12.0	-11.8	-12.5	-15.6	-18.6	-20.7	-22.5	-24.1	-25.3	-26.1	-21.0	-11.8	-28.2
13	-26.6	-27.1	-27.2	-27.6	-28.1	-28.1	-28.0	-28.2	-26.1	-20.6	-18.6	-14.5	-13.3	-12.3	-11.6	-10.6	-10.6	-11.5	-11.5	-11.3	-11.8	-11.6	-11.1	-11.1	-18.3	-10.6	-28.2
14	-11.3	-10.6	-11.6	-11.5	-10.1	-10.1	-10.1	-9.0	-7.6	-6.0	-4.5	-2.9	-1.6	-2.0	-1.2	-1.7	-1.2	-1.3	-2.0	-3.0	-3.0	-4.0	-5.0	-5.0	-5.7	-1.2	-11.6
15	-5.0	-5.4	-4.4	-5.0	-5.4	-5.4	-5.9	-6.5	-6.3	-5.6	-3.4	-2.2	-1.7	-2.5	-2.7	-1.6	-2.5	-4.0	-5.5	-6.4	-6.8	-7.9	-8.3	-8.0	-4.9	-1.6	-8.3
16	-7.4	-7.9	-7.9	-7.6	-7.5	-7.8	-7.5	-7.4	-7.0	-5.9	-4.3	-3.4	-2.4	-2.0	0.5	-0.2	-1.2	-2.2	-3.0	-3.5	-3.7	-3.9	-4.1	-4.1	-4.6	0.5	-7.9
17	-4.5	-4.8	-5.5	-6.0	-5.5	-4.9	-4.5	-5.5	-4.5	-2.7	-1.0	-0.5	0.6	0.0	0.0	-0.6	-1.8	-2.7	-3.5	-4.3	-4.9	-5.4	-5.4	-5.9	-3.5	0.6	-6.0
18	-6.4	-6.5	-6.8	-7.0	-7.1	-7.3	-7.8	-8.3	-7.0	-5.6	-4.5	-4.6	-2.5	-2.2	-2.2	-5.0	-7.3	-9.0	-9.6	-9.8	-10.1	-10.6	-12.1	-12.6	-7.2	-2.2	-12.6
19	-12.3	-12.1	-12.3	-13.6	-13.6	-14.5	-14.5	-16.1	-13.8	-10.8	-9.1	-8.8	-7.0	-5.6	-4.9	-3.7	-3.9	-4.4	-4.8	-4.5	-4.5	-4.5	-5.4	-6.5	-8.8	-3.7	-16.1
20	-6.8	-6.5	-7.0	-6.3	-6.1	-6.0	-5.9	-5.4	-3.9	-0.6	0.1	1.3	1.9	2.3	2.5	2.5	1.6	0.7	-1.2	-1.7	-1.7	-2.2	-2.4	-2.5	-2.2	2.5	-7.0
21	-3.0	-3.0	-3.2	-3.5	-3.7	-4.6	-5.6	-7.5	-7.0	-2.0	-0.8	0.0	0.9	1.8	2.3	2.9	3.2	2.5	0.2	-1.6	-3.2	-5.0	-6.4	-7.4	-2.2	3.2	-7.5
22	-8.3	-9.0	-9.6	-9.6	-5.4	-3.0	-3.4	-2.5	-1.0	0.9	1.5	3.4	4.5	7.0	5.9	7.2	7.4	5.3	4.1	3.2	1.9	0.1	-0.1	-1.2	-0.0	7.4	-9.6
23	0.2	1.5	2.1	2.4	-0.8	1.2	2.5	2.2	3.1	5.8	7.4	7.4	7.6	7.9	7.4	8.3	7.7	6.8	6.3	5.1	4.9	4.9	4.3	3.7	4.6	8.3	-0.8
24	3.7	3.1	2.5	4.1	3.0	2.4	1.7	0.8	2.5	4.8	6.7	7.3	8.0	8.9	8.5	7.7	7.1	6.8	5.6	4.7	3.7	1.5	2.2	1.8	4.5	8.9	0.8
25	3.7	3.1	1.5	0.5	0.3	-0.8	-1.3	-1.7	-1.0	0.8	2.3	3.5	4.0	3.8	3.4	3.0	2.2	1.9	0.9	0.5	0.1	-0.5	-0.3	-1.2	1.2	4.0	-1.7
26	-1.3	-0.8	-0.8	-1.0	-1.2	-1.2	-1.5	-1.3	0.0	0.9	3.2	4.3	5.2	5.7	6.6	6.7	6.7	5.6	2.5	0.2	-1.7	-2.7	-3.7	-4.4	1.1	6.7	-4.4
27	-4.9	-5.6	-6.5	-7.4	-8.0	-8.5	-9.1	-9.1	-5.5	-1.7	0.4	4.5	5.4	7.7	10.0	13.1	11.8	10.6	6.4	2.5	1.8	1.1	2.1	-0.8	0.4	13.1	-9.1
28	-2.7	-3.5	-4.6	-5.5	-6.5	-6.9	-7.4	-7.5	-4.0	0.9	4.8	5.7	7.8	10.2	11.8	11.7	11.5	8.4	5.5	3.2	-0.1	-2.0	-3.2	-4.0	1.0	11.8	-7.5
Avg	-8.6	-8.9	-9.0	-9.1	-9.3	-9.5	-9.6	-9.9	-9.0	-6.9	-5.4	-4.1	-2.9	-2.3	-1.8	-1.7	-2.3	-3.6	-5.1	-6.3	-7.0	-7.7	-8.0	-8.5	-6.5	-0.9	-12.1
Max	3.7	3.1	2.5	4.1	3.0	2.4	2.5	2.2	3.1	5.8	7.4	7.4	8.0	10.2	11.8	13.1	11.8	10.6	6.4	5.1	4.9	4.9	4.3	3.7	4.6	13.1	0.8
Min	-26.6	-27.1	-27.2	-27.6	-28.1	-28.1	-28.0	-28.2	-27.2	-23.1	-20.2	-17.5	-16.2	-14.3	-13.3	-14.5	-15.6	-17.0	-18.6	-20.7	-22.5	-24.1	-25.3	-26.1	-21.0	-13.3	-28.2

Montana Resources LLP
Greeley School Air Monitoring Summary
Temperature - MDEQ monitor (degrees Celsius)
March 2025

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	-4.3	-5.0	-5.9	-6.5	-7.0	-7.5	-8.0	-8.1	-4.3	1.2	4.3	6.4	10.1	11.0	13.7	13.8	13.9	12.5	7.8	3.7	0.8	-1.7	-3.0	-4.1	1.4	13.9	-8.1
2	-5.0	-5.5	-6.3	-6.9	-7.5	-8.0	-8.3	-8.5	-4.0	0.5	3.6	6.4	8.8	11.0	12.1	13.5	13.3	11.3	7.3	4.5	3.0	2.6	0.9	0.4	1.6	13.5	-8.5
3	-0.8	-2.0	-2.7	-2.7	-3.5	-4.1	-3.7	0.7	1.4	1.4	1.2	2.2	2.6	2.8	2.9	2.8	1.6	1.3	0.5	0.0	-0.2	-0.6	-0.8	-1.1	-0.0	2.9	-4.1
4	-1.7	-2.2	-2.5	-2.9	-3.4	-3.5	-3.9	-3.7	-2.2	-1.1	1.1	1.2	1.5	2.8	3.6	3.5	3.7	3.1	2.3	1.1	0.4	-0.6	-1.1	-0.6	-0.2	3.7	-3.9
5	-0.6	-1.7	-1.7	-1.2	-0.6	-1.2	-3.2	-3.7	-0.2	1.3	2.0	3.4	4.3	4.3	5.3	5.4	5.5	4.5	2.0	0.2	-1.1	-3.0	-3.5	-3.7	0.5	5.5	-3.7
6	-4.0	-4.8	-4.5	-4.3	-4.0	-4.3	-4.1	-3.9	-2.4	-1.7	-0.2	0.7	1.0	0.7	0.4	0.4	-0.5	-1.1	-1.7	-1.7	-2.2	-3.0	-3.0	-3.7	-2.2	1.0	-4.8
7	-4.6	-6.4	-7.0	-8.3	-9.8	-10.5	-10.8	-10.8	-6.3	-2.7	-2.0	0.2	2.0	4.0	5.9	6.2	5.8	4.6	3.0	1.8	0.8	-0.5	-0.6	-3.0	-2.0	6.2	-10.8
8	-4.4	-5.0	-5.6	-7.0	-7.5	-7.8	-7.9	-7.4	-2.5	0.3	1.9	3.6	4.9	6.9	8.4	10.0	10.1	9.1	6.6	4.9	3.7	1.6	1.2	2.2	0.8	10.1	-7.9
9	2.8	3.1	2.5	0.2	-2.0	-3.2	-2.7	-3.5	0.3	4.6	6.2	7.6	10.7	11.9	12.6	12.2	12.2	10.7	7.3	5.4	3.5	3.1	3.6	0.6	4.6	12.6	-3.5
10	-0.3	-0.2	-1.2	-1.7	-1.3	-2.7	-2.7	1.5	5.6	7.1	7.4	7.9	7.5	7.3	6.7	6.1	5.2	4.8	4.2	3.2	0.7	-0.2	-0.3	0.1	2.7	7.9	-2.7
11	1.0	0.4	1.1	4.1	2.8	2.0	1.7	2.6	5.6	6.0	6.5	7.2	8.2	9.3	9.3	10.2	9.4	8.9	7.7	6.1	4.3	1.9	0.8	-1.1	4.8	10.2	-1.1
12	-2.4	-2.9	-2.7	-2.7	-2.5	-2.7	-2.9	-2.4	-0.3	3.3	7.3	9.7	10.0	10.3	10.8	10.0	9.6	8.9	7.6	6.5	6.6	6.1	5.4	5.0	4.0	10.8	-2.9
13	4.0	4.6	4.4	4.3	3.6	5.5	5.5	5.3	5.8	5.5	2.5	1.6	3.9	5.2	4.9	4.1	4.1	3.8	1.9	0.2	-0.4	-0.5	-1.2	-1.8	3.2	5.8	-1.8
14	-1.7	-1.8	-2.2	-3.0	-3.7	-4.5	-5.4	-5.5	-2.2	-1.0	0.3	0.9	0.9	3.2	3.5	3.3	2.3	2.2	0.6	-0.6	-1.2	-1.6	-2.4	-3.0	-0.9	3.5	-5.5
15	-3.2	-2.7	-2.5	-2.9	-3.4	-3.5	-3.5	-3.2	-0.8	1.1	1.7	2.3	3.6	4.2	2.2	2.2	-0.1	0.3	-0.2	-1.2	-1.6	-1.8	-2.0	-2.0	-0.7	4.2	-3.5
16	-2.5	-3.4	-2.7	-0.6	-0.4	-0.8	-0.8	-0.6	0.2	-0.1	2.3	4.8	6.8	8.4	9.0	8.2	6.9	5.9	4.2	2.8	1.9	0.2	0.2	-0.4	2.1	9.0	-3.4
17	-0.5	-1.1	-1.2	-0.8	-1.5	-1.8	-2.5	-3.0	-1.7	-1.2	0.2	2.4	3.6	3.9	1.9	3.2	4.1	2.3	-0.1	-1.2	-1.0	-1.5	-2.7	-1.8	-0.1	4.1	-3.0
18	-2.2	-2.7	-2.9	-3.4	-4.3	-5.0	-4.6	-4.5	-3.2	-1.7	-0.6	0.0	-1.5	-0.1	-1.2	1.1	-2.2	-1.7	-3.0	-2.9	-3.2	-3.7	-4.6	-5.8	-2.7	1.1	-5.8
19	-6.6	-7.1	-7.6	-8.5	-9.8	-9.8	-10.1	-9.3	-4.8	-3.4	-2.0	0.1	2.1	4.3	5.6	6.6	7.0	6.5	3.5	1.6	1.1	0.6	0.0	0.0	-1.7	7.0	-10.1
20	0.4	0.0	0.0	-0.4	-0.8	-2.0	-1.5	-1.2	-0.4	0.3	1.0	2.4	4.3	4.4	4.4	4.6	3.8	2.1	0.3	-1.1	-1.1	-1.3	-1.7	-1.3	0.6	4.6	-2.0
21	-1.3	-1.5	-1.8	-1.7	-1.8	-1.7	-1.3	-1.0	-0.1	3.4	4.9	5.1	5.7	6.3	6.7	6.6	6.7	6.5	5.5	4.5	3.3	2.8	2.6	2.9	2.6	6.7	-1.8
22	2.9	2.1	-0.1	-0.5	-0.6	-0.6	-0.8	-1.1	-1.0	-1.3	-2.0	0.5	1.0	1.4	2.0	2.2	3.1	1.5	0.4	-0.8	-2.2	-2.2	-3.4	-4.8	-0.2	3.1	-4.8
23	-6.0	-6.5	-5.6	-4.3	-4.4	-4.0	-3.5	-2.4	-0.5	0.9	2.5	5.4	6.4	7.5	7.3	7.6	8.0	7.3	6.2	5.4	4.9	4.3	3.2	3.4	1.8	8.0	-6.5
24	5.1	6.2	6.2	6.0	5.1	6.1	7.2	8.1	8.7	10.4	11.8	11.9	11.7	12.3	13.2	12.5	12.0	11.4	9.5	8.3	7.4	7.5	7.5	7.5	8.9	13.2	5.1
25	7.1	7.3	6.7	6.4	6.2	5.3	4.6	5.6	8.0	9.2	10.7	11.9	14.2	14.4	16.6	16.8	17.4	16.6	14.0	10.5	8.2	6.5	4.5	2.4	9.6	17.4	2.4
26	1.2	0.5	-0.6	-1.3	-1.8	-2.2	-2.5	-0.6	4.9	8.6	12.1	15.0	16.1	17.5	18.3	19.5	18.4	19.2	16.9	12.7	10.8	8.7	6.3	5.0	8.4	19.5	-2.5
27	4.1	3.4	2.4	1.6	1.9	0.9	1.2	3.6	6.2	7.6	11.1	13.9	15.4	16.2	15.5	16.2	16.2	15.5	14.1	10.3	7.2	6.2	5.3	2.5	8.3	16.2	0.9
28	1.4	1.2	1.7	3.3	4.3	3.3	1.0	1.8	6.3	8.3	8.8	10.4	11.4	11.7	12.0	11.4	10.2	8.2	6.7	5.2	3.4	3.0	2.7	2.3	5.8	12.0	1.0
29	2.2	2.0	2.1	2.0	1.6	1.4	0.9	1.2	2.8	4.0	4.8	4.8	2.8	3.8	5.6	2.1	3.2	3.3	3.0	1.7	1.1	0.4	0.3	0.1	2.4	5.6	0.1
30	0.1	-0.1	-0.4	-0.6	-1.0	-1.2	-1.3	-1.0	-1.0	-0.8	-0.5	-0.2	0.3	2.0	2.3	3.3	3.2	2.7	2.0	1.3	0.9	1.2	1.6	1.6	0.6	3.3	-1.3
31	0.5	0.0	-0.8	-1.7	-2.4	-3.2	-3.2	-1.2	0.3	2.4	3.3	4.3	5.6	7.4	6.8	6.0	4.7	4.3	3.8	2.2	0.0	-0.4	-0.8	-1.7	1.5	7.4	-3.2
Avg	-0.6	-1.0	-1.3	-1.5	-1.9	-2.3	-2.5	-1.8	0.6	2.3	3.6	5.0	6.0	7.0	7.4	7.5	7.1	6.3	4.6	3.1	1.9	1.1	0.5	-0.1	2.1	8.1	-3.5
Max	7.1	7.3	6.7	6.4	6.2	6.1	7.2	8.1	8.7	10.4	12.1	15.0	16.1	17.5	18.3	19.5	18.4	19.2	16.9	12.7	10.8	8.7	7.5	7.5	9.6	19.5	5.1
Min	-6.6	-7.1	-7.6	-8.5	-9.8	-10.5	-10.8	-10.8	-6.3	-3.4	-2.0	-0.2	-1.5	-0.1	-1.2	0.4	-2.2	-1.7	-3.0	-2.9	-3.2	-3.7	-4.6	-5.8	-2.7	1.0	-10.8

Montana Resources LLP
Greeley School Air Monitoring Summary
Wind Speed - MDEQ monitor (meters per second)
January 2025

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.4	0.4	0.4	0.5	0.5	0.5	0.8	0.7	0.9	0.7	1.3	1.3	0.6	0.8	1.3	1.2	0.7	0.5	0.7	0.7	0.8	0.5	0.5	0.6	0.7	1.3	0.4
2	0.4	0.7	0.4	0.6	0.4	0.3	0.5	0.5	0.5	0.4	0.4	0.5	0.8	0.9	0.7	0.5	0.8	0.8	0.9	0.9	0.5	0.8	0.9	0.5	0.6	0.9	0.3
3	0.7	0.3	0.5	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.6	0.7	0.8	0.8	0.5	0.8	0.5	0.5	0.6	0.5	0.5	0.8	0.8	0.5	0.8	0.3
4	1.1	0.4	1.2	0.7	0.5	1.4	0.9	1.0	0.7	0.8	1.4	1.7	2.1	1.9	1.7	1.6	1.3	0.7	0.9	0.3	0.7	0.6	1.1	0.5	1.1	2.1	0.3
5	0.4	0.5	0.5	0.5	0.5	0.4	0.5	0.6	0.6	0.5	0.5	0.4	0.6	0.9	0.8	0.7	0.7	0.4	0.5	0.7	0.4	0.5	0.5	0.5	0.5	0.9	0.4
6	0.3	0.5	0.4	0.8	0.8	0.5	0.4	0.5	0.5	0.5	0.8	0.9	0.6	1.4	1.6	1.6	1.2	0.9	0.7	1.0	0.8	0.8	0.5	0.7	0.8	1.6	0.3
7	0.4	0.4	0.5	0.7	0.6	0.7	0.6	0.7	0.8	0.6	0.7	0.7	0.8	1.0	1.0	0.8	0.8	0.8	0.7	0.6	0.4	0.5	0.8	1.2	0.7	1.2	0.4
8	1.1	0.6	0.5	1.0	0.5	0.5	0.7	0.4	0.7	1.1	0.5	0.7	0.4	0.5	1.2	1.8	4.2	2.8	1.4	2.7	2.0	0.7	1.4	0.7	1.2	4.2	0.4
9	0.6	0.7	0.5	0.7	0.9	0.7	0.5	0.6	0.4	0.8	1.2	0.8	1.0	1.4	0.9	1.4	1.1	0.5	0.6	0.6	0.4	0.5	0.4	0.5	0.7	1.4	0.4
10	0.7	0.6	0.4	0.4	0.7	1.0	0.6	0.5	0.5	0.7	0.8	1.4	1.1	1.0	1.4	1.5	1.2	1.4	0.9	1.0	0.9	0.6	1.3	1.2	0.9	1.5	0.4
11	2.9	2.2	1.4	2.5	2.0	2.2	3.4	2.6	2.5	1.5	2.1	1.9	1.7	1.5	1.6	1.7	1.2	1.2	1.0	0.6	0.5	0.6	0.6	0.7	1.7	3.4	0.5
12	0.3	0.5	0.8	0.4	0.5	1.0	0.7	0.4	0.6	0.8	1.2	0.9	0.9	0.8	1.2	1.1	0.5	0.5	0.9	0.5	0.7	0.8	0.7	0.5	0.7	1.2	0.3
13	0.5	0.5	0.6	0.5	0.6	0.7	0.5	0.6	1.2	1.5	1.9	1.4	2.0	1.9	1.7	2.2	2.4	1.9	0.7	0.8	1.0	0.9	0.8	0.9	1.2	2.4	0.5
14	0.5	0.6	0.6	0.4	0.6	0.4	0.6	0.5	0.8	0.6	0.7	0.7	0.6	1.0	0.8	1.0	0.9	0.8	0.8	0.6	0.9	0.7	0.5	0.6	0.7	1.0	0.4
15	0.5	0.7	0.5	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	1.1	0.7	0.4	0.4	0.3	0.3	0.5	0.5	0.7	0.6	1.1	0.3
16	0.6	0.5	0.7	0.7	0.7	0.7	0.6	0.8	1.4	0.9	0.9	1.5	1.6	1.5	1.4	1.6	1.4	0.7	0.9	1.2	0.6	1.3	1.5	1.8	1.1	1.8	0.5
17	1.5	3.0	3.9	1.6	2.1	3.2	3.8	5.0	4.7	4.2	3.3	2.5	2.4	3.2	3.0	2.6	2.2	2.1	1.8	1.3	1.1	1.0	0.9	0.8	2.5	5.0	0.8
18	0.9	1.0	0.9	1.1	0.3	0.9	0.6	0.8	0.7	0.6	1.0	0.9	1.0	0.8	0.7	0.8	0.9	0.7	0.9	0.6	0.9	1.0	0.8	1.1	0.8	1.1	0.3
19	1.2	0.8	0.7	0.6	0.7	0.4	0.7	0.6	0.2	0.6	0.5	0.9	2.9	2.5	2.9	3.0	2.8	2.1	1.5	1.2	2.5	2.0	0.6	1.1	1.4	3.0	0.2
20	0.9	0.5	0.6	0.7	0.5	0.7	0.6	0.7	0.4	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.7	0.6	0.6	0.8	0.7	0.9	0.5	0.6	0.7	0.9	0.4
21	0.5	0.7	0.6	0.8	0.6	0.7	0.9	0.7	0.8	0.8	0.8	0.8	0.8	1.3	1.9	3.3	3.1	2.6	2.3	1.9	2.6	2.9	2.9	2.4	1.5	3.3	0.5
22	2.4	2.1	2.6	2.5	1.1	1.0	0.7	1.5	0.9	1.0	1.4	0.9	1.2	1.1	0.7	1.1	1.7	0.8	0.9	1.1	1.2	1.1	0.6	0.5	1.3	2.6	0.5
23	0.5	0.5	0.3	0.5	0.6	0.2	0.5	0.5	0.5	0.9	0.3	0.5	0.7	0.7	0.7	0.8	0.8	0.5	0.6	0.6	0.6	0.8	0.8	0.7	0.6	0.9	0.2
24	0.6	0.7	0.5	0.6	1.6	2.3	0.5	0.6	1.4	2.1	1.9	2.5	3.0	2.7	4.8	5.1	4.2	1.2	2.1	1.6	1.5	0.7	0.6	0.8	1.8	5.1	0.5
25	0.8	0.6	AQ	0.6	0.9	0.7	0.8	0.9	0.6	0.8	0.7	0.9	1.2	1.4	1.2	1.3	1.0	0.7	1.0	0.7	0.7	0.3	0.5	0.4	0.8	1.4	0.3
26	0.2	0.5	0.4	0.6	0.4	0.6	0.6	0.6	1.1	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.6	1.0	0.6	0.6	0.5	0.5	0.7	0.5	0.6	1.1	0.2
27	0.5	0.4	0.3	0.5	0.4	0.4	0.4	0.4	0.5	0.7	0.7	0.6	0.9	0.8	0.9	0.7	1.3	0.9	0.5	0.4	0.5	0.4	0.3	0.3	0.6	1.3	0.3
28	0.6	0.6	0.7	0.4	0.5	0.3	0.3	0.5	0.3	0.4	0.5	0.7	0.7	1.0	1.1	1.6	1.3	0.7	0.5	0.5	0.4	0.4	0.4	0.6	0.6	1.6	0.3
29	0.4	0.4	0.5	0.4	0.4	0.5	0.5	0.4	0.3	0.5	0.4	1.0	0.5	0.8	0.6	0.9	0.6	1.0	0.6	0.6	0.3	0.4	0.4	0.4	0.5	1.0	0.3
30	0.4	0.4	0.4	0.6	0.5	0.7	0.6	0.6	0.7	0.5	0.4	0.5	0.8	0.8	1.0	0.7	0.9	0.5	0.7	0.8	0.6	0.5	0.7	0.6	0.6	1.0	0.4
31	0.9	0.8	1.1	1.1	1.3	0.6	0.6	0.6	0.5	0.8	0.9	0.4	0.8	2.6	3.0	3.4	1.6	1.4	2.2	1.5	1.6	1.3	2.2	1.9	1.4	3.4	0.4
Avg	0.8	0.7	0.8	0.8	0.7	0.8	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.3	1.4	1.5	1.4	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.9	1.9	0.4
Max	2.9	3.0	3.9	2.5	2.1	3.2	3.8	5.0	4.7	4.2	3.3	2.5	3.0	3.2	4.8	5.1	4.2	2.8	2.3	2.7	2.6	2.9	2.9	2.4	2.5	5.1	0.8
Min	0.2	0.3	0.3	0.4	0.3	0.2	0.3	0.3	0.2	0.4	0.3	0.4	0.4	0.5	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.5	0.8	0.2

Montana Resources LLP
Greeley School Air Monitoring Summary
Wind Speed - MDEQ monitor (meters per second)
February 2025

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.8	1.1	1.4	1.9	1.2	2.6	1.5	1.6	1.7	2.9	1.5	1.7	1.3	1.6	1.8	1.4	1.9	1.7	1.0	0.9	0.6	0.5	0.5	0.6	1.4	2.9	0.5
2	0.6	0.5	0.7	1.6	2.2	0.4	0.3	0.4	1.0	0.4	0.7	1.0	0.8	0.5	0.5	1.0	0.9	1.1	0.6	0.7	0.7	0.4	0.5	0.9	0.8	2.2	0.3
3	0.9	1.2	0.9	1.1	1.5	0.7	0.8	1.3	1.1	1.0	1.1	1.2	1.3	1.1	1.0	1.2	1.3	0.9	1.2	1.2	0.9	0.4	1.2	1.0	1.1	1.5	0.4
4	0.7	0.5	0.6	1.4	0.8	0.9	0.9	1.1	1.0	0.7	1.0	0.7	0.7	1.0	1.6	1.3	1.2	1.4	0.7	0.6	0.5	0.6	0.8	0.9	0.9	1.6	0.5
5	1.0	0.9	0.6	0.5	0.9	1.1	1.9	2.2	1.9	1.0	0.7	1.0	1.1	1.2	1.3	1.2	1.0	1.9	0.9	0.7	0.6	0.7	1.0	1.0	1.1	2.2	0.5
6	0.7	0.8	0.9	0.9	0.8	1.0	0.8	1.0	0.8	0.9	0.9	2.0	1.7	1.2	0.9	1.0	0.9	0.7	0.9	0.9	0.5	0.5	0.5	0.4	0.9	2.0	0.4
7	0.4	0.4	0.7	0.5	0.9	1.2	1.9	1.7	1.6	1.6	1.0	1.4	2.1	1.9	1.7	1.6	1.6	0.9	0.4	0.6	0.9	0.9	0.6	0.6	1.1	2.1	0.4
8	0.9	0.9	0.7	0.7	0.8	0.8	0.7	0.6	0.7	0.5	0.6	0.5	0.7	1.4	1.1	1.2	0.7	0.4	0.5	0.6	0.7	0.7	0.8	0.7	0.7	1.4	0.4
9	0.7	0.7	0.5	0.6	0.7	0.6	0.3	0.7	0.8	0.7	0.7	0.7	0.7	1.0	1.3	1.5	1.6	1.1	0.7	0.7	0.6	0.4	0.5	0.5	0.8	1.6	0.3
10	0.5	0.6	0.4	0.7	0.6	0.7	0.6	0.8	1.5	1.9	1.6	1.5	1.1	1.0	1.4	1.1	0.9	0.8	0.7	0.4	0.6	0.9	0.5	0.5	0.9	1.9	0.4
11	0.6	0.6	0.5	0.4	0.6	0.3	0.4	0.5	0.5	0.8	0.7	0.9	1.1	0.9	1.2	1.5	1.1	1.1	1.0	0.4	0.8	0.8	0.8	1.1	0.8	1.5	0.3
12	0.6	0.6	0.4	0.6	0.5	0.4	0.6	0.5	0.2	0.6	0.9	0.8	0.9	0.8	0.8	0.9	0.9	1.0	0.7	0.8	0.8	0.5	0.7	0.7	0.7	1.0	0.2
13	0.5	0.5	0.5	0.7	0.7	0.3	0.6	0.4	0.4	0.5	0.9	1.0	1.1	0.9	1.0	0.6	1.0	0.8	0.7	0.9	0.6	0.7	0.5	0.8	0.7	1.1	0.3
14	0.6	0.9	0.6	0.7	1.1	0.9	0.9	0.6	0.8	0.6	0.8	1.0	1.0	0.9	0.6	0.9	0.9	0.6	0.5	0.6	0.4	0.9	0.6	0.5	0.7	1.1	0.4
15	0.6	0.7	2.5	2.2	2.3	2.3	1.0	1.0	1.1	1.0	1.5	1.6	1.8	2.5	2.1	1.9	1.4	1.1	0.8	0.7	0.6	0.4	0.4	0.4	1.3	2.5	0.4
16	0.5	0.7	0.8	0.5	0.5	0.4	0.5	0.3	0.8	0.6	0.6	0.7	1.0	0.8	0.6	0.7	0.5	0.5	0.5	0.3	0.6	0.4	0.4	0.6	0.6	1.0	0.3
17	0.8	0.5	0.5	0.4	0.5	0.5	0.4	0.6	0.4	0.6	0.3	0.9	0.6	0.7	0.7	1.0	1.1	0.6	0.8	0.5	0.6	0.7	0.6	0.6	0.6	1.1	0.3
18	0.8	0.8	0.7	0.6	0.6	1.0	0.5	0.7	0.6	0.4	0.9	1.6	1.1	1.9	2.2	2.2	1.8	1.7	1.4	0.8	0.6	0.5	0.5	0.5	1.0	2.2	0.4
19	0.4	0.5	0.3	0.5	0.5	0.6	0.4	0.4	0.4	0.9	1.0	1.3	1.1	1.1	1.0	0.6	0.7	0.8	0.8	0.6	0.4	0.4	0.4	0.5	0.7	1.3	0.3
20	0.6	0.4	0.3	0.4	0.5	0.4	0.3	0.5	0.5	0.3	0.9	1.0	2.3	2.1	1.7	1.5	2.0	1.9	1.1	0.6	0.7	0.9	0.8	0.4	0.9	2.3	0.3
21	0.3	0.4	0.3	0.3	0.5	0.3	0.5	0.7	0.6	0.5	1.1	1.8	2.1	1.8	1.9	1.9	1.5	1.0	0.8	0.6	0.6	0.6	0.6	0.8	0.9	2.1	0.3
22	0.6	0.7	0.8	0.9	1.2	1.0	0.9	1.0	0.6	0.8	1.5	1.1	1.5	1.8	1.7	1.4	0.9	1.1	0.9	0.8	0.7	0.7	0.8	0.9	1.0	1.8	0.6
23	1.3	1.5	1.2	1.4	0.9	2.6	2.5	1.3	1.3	1.9	2.5	3.2	2.2	2.2	1.2	1.8	1.3	1.8	2.2	1.2	1.1	1.2	1.4	1.0	1.7	3.2	0.9
24	1.4	0.9	1.1	3.1	2.2	1.4	0.8	0.7	0.6	1.4	1.2	2.1	2.2	1.4	1.9	1.8	1.8	1.0	1.4	1.4	1.0	0.8	1.3	0.8	1.4	3.1	0.6
25	1.3	2.5	4.1	3.9	2.5	1.4	1.9	1.1	1.5	1.7	2.0	2.7	3.3	2.7	2.8	1.6	2.0	2.0	0.9	1.1	1.0	0.7	0.9	0.4	1.9	4.1	0.4
26	0.6	1.2	0.7	0.8	0.5	0.4	0.4	0.5	0.8	1.0	1.1	1.5	1.2	1.3	1.1	1.3	1.0	1.0	1.0	0.6	0.7	0.5	0.6	0.5	0.8	1.5	0.4
27	0.6	0.4	0.6	0.4	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.1	1.5	1.8	0.9	1.8	1.2	0.7	0.7	0.7	0.6	1.1	0.6	0.8	1.8	0.4
28	0.7	0.6	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.6	0.7	1.1	1.4	1.1	1.5	1.6	1.1	0.8	1.2	0.8	0.4	0.4	0.3	0.3	0.8	1.6	0.3
Avg	0.7	0.8	0.9	1.0	1.0	0.9	0.8	0.8	0.9	1.0	1.1	1.3	1.4	1.4	1.4	1.3	1.2	1.1	0.9	0.7	0.7	0.6	0.7	0.7	1.0	1.9	0.4
Max	1.4	2.5	4.1	3.9	2.5	2.6	2.5	2.2	1.9	2.9	2.5	3.2	3.3	2.7	2.8	2.2	2.0	2.0	2.2	1.4	1.1	1.2	1.4	1.1	1.9	4.1	0.9
Min	0.3	0.4	0.3	0.3	0.5	0.3	0.3	0.3	0.2	0.3	0.3	0.5	0.6	0.5	0.5	0.6	0.5	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.6	1.0	0.2

Montana Resources LLP
Greeley School Air Monitoring Summary
Wind Speed - MDEQ monitor (meters per second)
March 2025

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.7	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.6	0.4	0.6	0.7	0.9	1.0	1.1	1.1	1.1	0.9	0.5	0.5	0.5	0.3	0.4	0.3	0.6	1.1	0.3
2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	1.0	1.1	1.3	1.2	1.6	1.4	1.4	0.8	0.7	0.8	0.7	0.8	0.4	0.5	0.8	1.6	0.3
3	0.4	0.4	0.5	0.5	0.5	0.5	0.9	3.2	2.8	3.1	4.1	2.4	2.4	2.1	1.3	0.7	1.4	1.7	1.4	1.1	0.9	1.2	1.2	1.4	1.5	4.1	0.4
4	1.6	1.3	1.0	1.5	1.1	0.9	0.8	0.7	0.4	0.9	0.6	0.8	1.0	1.1	0.9	1.0	0.8	0.8	0.7	0.7	0.8	0.5	0.4	0.6	0.9	1.6	0.4
5	0.6	0.5	0.5	0.6	1.0	1.2	1.0	0.8	0.5	1.2	1.5	1.1	1.3	1.9	1.6	1.6	1.4	1.4	1.5	1.1	0.4	0.3	0.8	0.4	1.0	1.9	0.3
6	0.6	0.5	0.7	0.7	0.5	0.4	0.6	0.7	1.1	1.2	2.0	2.1	2.6	3.5	3.7	2.8	3.2	3.2	2.7	4.0	3.4	2.3	1.3	1.2	1.9	4.0	0.4
7	0.8	0.7	0.9	0.5	0.4	0.4	0.6	0.3	0.5	0.7	1.0	1.2	1.7	1.6	1.9	2.0	2.2	2.3	2.2	1.8	1.1	0.8	1.1	0.6	1.1	2.3	0.3
8	0.7	0.7	0.6	0.4	0.5	0.6	0.7	0.6	0.5	0.6	1.1	1.5	2.4	2.5	2.0	1.7	1.2	1.0	0.6	0.7	0.6	0.6	0.7	0.9	1.0	2.5	0.4
9	1.1	1.0	0.8	0.7	0.6	0.6	0.7	0.7	0.8	1.4	1.4	1.7	1.8	1.9	2.4	3.0	3.0	2.4	3.4	2.3	1.1	0.8	1.3	0.6	1.5	3.4	0.6
10	0.9	1.0	1.0	0.9	0.8	0.7	0.7	1.3	2.6	3.4	3.3	4.3	4.0	3.5	3.3	2.1	2.2	2.3	2.0	0.7	0.3	0.6	0.5	0.6	1.8	4.3	0.3
11	0.5	0.5	1.1	2.3	1.2	1.1	0.7	0.8	1.4	2.8	2.9	2.5	2.3	2.3	2.2	3.4	2.6	1.3	0.8	1.1	1.4	0.9	0.8	0.4	1.6	3.4	0.4
12	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.6	0.5	1.6	2.7	2.9	2.8	3.8	3.8	3.0	1.8	0.6	1.2	3.4	3.8	3.3	1.6	1.7	3.8	0.5
13	1.3	1.4	1.1	1.5	1.2	3.2	2.4	1.0	1.0	3.0	1.6	1.6	1.1	1.5	2.3	2.5	2.0	1.4	3.3	2.9	1.5	1.5	1.8	1.4	1.8	3.3	1.0
14	1.3	1.5	1.5	1.2	1.2	0.7	0.7	0.5	1.0	1.1	1.6	2.2	1.7	3.1	2.0	2.1	2.6	1.8	1.3	0.7	0.5	0.5	0.6	0.7	1.3	3.1	0.5
15	0.4	0.5	0.4	0.2	0.3	0.5	0.5	0.5	1.1	1.0	2.3	2.7	2.4	2.6	3.1	3.0	2.4	1.6	1.0	1.4	1.0	1.1	1.3	1.2	1.4	3.1	0.2
16	0.7	0.4	1.2	1.8	3.0	1.5	0.8	1.9	1.2	0.9	1.1	3.0	3.7	4.4	5.0	4.6	3.2	2.8	2.0	1.4	2.3	1.0	1.7	3.0	2.2	5.0	0.4
17	1.9	0.9	1.0	1.5	0.7	0.6	0.9	1.4	1.0	1.0	1.5	1.1	1.3	1.4	1.6	1.9	1.9	2.9	1.9	0.9	1.2	1.0	0.9	2.8	1.4	2.9	0.6
18	3.8	3.0	2.9	1.9	1.0	1.3	1.7	2.4	2.4	2.2	2.6	2.6	2.0	2.8	3.4	2.9	2.7	1.3	2.4	1.6	1.5	2.0	1.0	0.8	2.2	3.8	0.8
19	0.9	0.7	0.5	0.4	0.4	0.5	0.4	0.7	0.9	1.5	2.1	1.7	1.4	2.1	2.9	3.1	2.8	2.2	0.9	1.3	2.1	2.2	2.1	2.5	1.5	3.1	0.4
20	2.4	1.1	1.0	1.5	0.9	0.7	1.5	0.8	1.0	1.0	1.7	1.7	3.1	3.3	4.1	4.5	4.3	3.0	2.3	1.3	1.2	1.5	0.9	0.6	1.9	4.5	0.6
21	1.1	0.7	0.6	1.4	0.8	1.1	1.1	0.9	1.2	1.2	2.5	2.7	2.9	3.5	3.7	3.9	3.4	2.9	1.7	2.6	3.2	2.8	2.5	2.4	2.1	3.9	0.6
22	1.6	1.5	1.3	1.2	2.1	2.1	3.1	1.9	3.2	4.6	2.5	3.5	3.4	3.8	3.6	2.8	2.3	2.4	1.8	1.5	0.6	1.2	0.9	0.5	2.2	4.6	0.5
23	0.4	0.7	0.7	0.6	0.6	0.6	0.4	0.5	0.7	1.4	1.6	1.4	1.4	2.0	2.2	2.3	3.5	2.6	2.0	1.0	0.9	0.8	0.9	0.9	1.3	3.5	0.4
24	1.4	1.8	1.7	1.0	1.1	1.3	2.0	2.3	2.0	1.5	2.4	2.5	3.5	3.2	3.0	2.9	3.4	2.5	1.8	0.9	0.4	0.9	0.8	1.1	1.9	3.5	0.4
25	0.7	0.9	0.5	0.7	0.6	0.4	0.4	0.5	1.1	1.4	1.6	1.5	2.0	2.2	1.5	1.5	1.8	1.8	0.9	0.6	0.7	0.8	0.7	0.4	1.1	2.2	0.4
26	0.5	0.5	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.7	1.1	1.9	2.5	2.2	2.0	2.4	2.0	1.9	1.0	0.7	0.8	0.9	0.9	0.7	1.0	2.5	0.3
27	0.9	0.8	0.9	0.9	1.0	0.7	0.7	0.6	0.8	1.5	0.9	0.9	1.9	3.5	3.2	4.2	3.2	2.4	2.2	0.9	0.8	0.7	1.0	0.7	1.5	4.2	0.6
28	0.7	0.9	0.8	1.1	1.4	0.8	0.6	0.5	1.5	1.4	2.1	1.8	1.6	1.6	1.8	1.8	2.2	2.7	2.8	1.8	1.4	0.7	0.7	0.9	1.4	2.8	0.5
29	1.1	1.0	1.1	1.0	0.9	0.8	1.0	0.7	0.8	1.2	1.5	1.7	2.2	1.6	1.6	1.3	2.1	1.7	1.9	1.4	1.0	1.7	1.8	1.0	1.3	2.2	0.7
30	1.4	0.9	0.8	1.2	0.8	0.8	1.7	1.2	1.4	1.4	1.7	1.6	1.1	1.5	2.0	2.8	2.3	2.5	2.3	1.8	1.5	1.3	1.6	1.7	1.6	2.8	0.8
31	1.5	1.0	1.2	0.5	0.6	0.7	0.5	0.6	1.3	1.1	1.2	1.3	1.4	1.7	2.7	2.3	2.2	0.8	1.8	2.0	1.2	0.9	1.4	2.2	1.3	2.7	0.5
Avg	1.1	0.9	0.9	1.0	0.9	0.9	0.9	1.0	1.2	1.5	1.8	1.9	2.1	2.4	2.5	2.5	2.4	2.0	1.7	1.4	1.2	1.2	1.2	1.1	1.5	3.2	0.5
Max	3.8	3.0	2.9	2.3	3.0	3.2	3.1	3.2	3.2	4.6	4.1	4.3	4.0	4.4	5.0	4.6	4.3	3.2	3.4	4.0	3.4	3.8	3.3	3.0	2.2	5.0	1.0
Min	0.3	0.4	0.4	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.7	0.9	1.0	0.9	0.7	0.8	0.8	0.5	0.5	0.3	0.3	0.4	0.3	0.6	1.1	0.2

Montana Resources LLP
Greeley School Air Monitoring Summary
Wind Direction - MDEQ monitor (degrees)
January 2025

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	181	153	176	171	172	114	178	175	182	155	21	354	54	358	348	356	29	105	174	185	177	168	179	179	152
2	145	206	156	173	146	163	197	170	28	181	159	58	358	12	13	333	136	130	73	140	182	140	41	354	129
3	159	290	136	98	64	193	168	146	67	50	43	38	347	332	41	353	267	268	303	308	292	170	280	354	359
4	133	326	131	303	143	154	200	240	188	164	300	305	313	311	302	296	294	320	335	208	240	186	159	102	246
5	78	55	77	80	166	219	207	169	159	179	169	149	178	140	9	18	61	176	178	203	200	141	188	205	155
6	151	167	278	178	164	134	184	105	141	148	178	186	153	242	226	225	209	166	126	191	161	157	173	116	171
7	167	104	176	162	94	105	124	70	92	85	250	21	334	1	33	19	225	186	158	122	206	237	207	143	131
8	135	156	71	171	147	135	167	174	181	173	142	197	105	110	21	294	318	323	330	349	320	247	303	255	177
9	235	233	227	138	180	206	143	171	211	188	173	74	24	39	241	230	228	204	170	144	186	138	210	163	186
10	196	199	206	134	181	160	124	188	198	62	21	7	337	353	17	226	260	300	285	250	292	285	288	280	253
11	293	286	290	317	296	308	315	325	327	292	312	312	294	297	323	311	294	304	328	265	272	242	194	216	295
12	265	223	197	229	70	297	217	162	215	334	14	35	58	36	303	286	251	256	236	283	219	135	126	225	247
13	182	166	197	121	162	159	85	199	292	284	302	291	324	345	301	317	316	316	138	228	205	67	214	164	233
14	234	177	188	212	191	207	187	170	184	169	152	146	69	54	254	186	207	205	180	182	127	162	109	165	176
15	199	173	160	350	140	80	220	158	132	31	98	78	80	64	348	57	147	105	225	128	206	109	32	140	117
16	307	128	164	312	136	160	134	349	272	334	88	1	219	26	280	219	181	76	64	214	68	294	292	298	280
17	293	300	311	292	310	331	360	18	24	24	26	18	22	26	28	30	36	58	140	188	186	178	205	200	360
18	206	76	226	159	162	173	173	134	153	174	151	97	252	30	191	294	242	210	197	207	194	160	164	156	178
19	141	165	165	168	161	182	176	165	195	180	176	328	21	8	11	14	12	56	26	60	44	60	100	179	112
20	182	184	216	171	198	165	196	165	202	173	133	125	114	57	326	234	243	200	195	164	157	136	187	165	176
21	179	161	165	169	188	203	173	136	115	142	122	124	139	47	284	290	288	288	288	304	302	296	293	297	210
22	303	300	302	309	235	134	291	147	151	128	126	95	142	121	109	86	289	203	218	187	155	178	221	123	172
23	163	168	146	149	169	123	177	182	140	175	104	94	70	121	114	80	138	20	35	37	151	107	46	190	125
24	109	316	219	101	310	315	248	245	323	332	307	356	24	6	10	8	6	213	28	125	159	182	178	136	334
25	171	131	AQ	189	183	164	186	162	66	177	190	86	45	34	332	228	232	187	173	172	170	155	204	198	171
26	158	186	158	177	188	185	175	199	158	181	153	81	176	87	153	194	216	183	159	169	164	169	185	194	171
27	184	176	272	160	238	117	174	145	144	155	144	91	26	88	7	250	224	162	63	158	202	159	210	275	167
28	161	152	143	212	190	267	161	192	89	151	153	65	6	321	228	219	222	170	134	177	201	183	11	165	175
29	204	101	196	148	174	160	151	208	132	166	126	52	65	38	46	26	202	180	125	110	81	143	169	167	138
30	114	154	198	105	32	124	161	141	184	141	184	73	46	17	18	26	30	47	62	71	143	83	105	151	100
31	172	154	36	39	45	229	138	112	298	151	168	156	323	164	155	155	156	186	144	138	151	178	158	186	154
Prev	180	174	186	164	167	169	176	165	160	156	140	63	36	31	345	306	245	194	153	177	186	163	187	182	168

Montana Resources LLP
Greeley School Air Monitoring Summary
Wind Direction - MDEQ monitor (degrees)
February 2025

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	135	153	161	178	135	190	202	222	224	211	271	230	78	11	188	296	254	221	337	160	73	34	31	126	185
2	282	162	78	204	174	308	53	307	5	18	52	13	7	86	347	334	215	216	194	350	37	142	216	231	347
3	156	204	159	179	188	207	89	69	81	127	30	349	14	161	211	194	195	218	60	66	252	228	227	219	171
4	290	302	70	98	152	126	225	208	214	211	171	14	61	320	233	216	217	196	187	201	240	139	128	187	193
5	187	184	194	214	179	182	40	190	197	225	185	62	167	53	41	68	357	223	202	47	99	54	22	266	157
6	28	47	51	28	44	59	53	26	25	141	347	2	7	26	80	158	112	260	311	190	171	185	79	262	49
7	334	334	259	284	253	234	212	181	206	221	217	224	188	228	226	230	233	192	156	182	173	163	192	147	214
8	175	154	148	155	190	170	188	194	172	168	132	78	55	48	320	282	312	229	140	47	176	126	185	171	161
9	140	145	178	117	224	125	221	148	142	165	111	64	81	47	71	304	301	280	160	146	206	107	149	212	148
10	179	163	193	171	190	180	185	205	222	222	226	242	246	300	313	310	264	262	177	151	143	174	181	189	207
11	204	172	166	176	171	131	181	203	190	151	65	48	48	46	277	224	228	200	169	148	133	189	198	169	171
12	180	179	191	196	217	198	175	194	111	174	168	132	49	225	195	197	165	184	152	156	173	211	192	183	179
13	143	174	183	200	150	60	192	136	173	173	80	142	128	87	58	99	135	133	128	143	148	126	39	151	135
14	28	230	180	138	97	60	152	81	51	141	52	50	41	12	351	39	49	7	187	202	133	226	129	187	93
15	152	161	297	315	305	309	185	127	177	187	227	260	287	301	302	298	296	244	118	149	143	218	170	91	226
16	155	155	118	66	159	176	169	63	171	82	53	28	65	358	35	354	277	184	191	72	48	223	170	181	117
17	163	193	275	123	231	133	22	162	247	208	103	33	32	230	255	42	213	163	200	186	233	172	180	200	188
18	185	162	181	180	199	185	246	176	201	257	212	185	194	302	303	188	192	175	184	189	184	215	299	185	202
19	203	238	194	158	179	146	186	31	110	90	131	38	44	37	35	19	41	37	129	138	154	120	83	33	103
20	209	76	32	161	192	168	77	195	10	115	229	230	301	301	292	294	303	303	235	150	289	218	215	145	229
21	140	130	131	61	162	317	217	237	203	98	6	42	35	12	6	359	322	336	309	5	65	137	137	136	58
22	164	70	129	136	27	36	37	35	42	160	35	35	39	254	233	234	222	27	133	66	67	23	100	39	68
23	24	19	359	243	66	136	142	332	25	142	185	202	201	197	26	228	235	198	184	136	183	182	168	6	172
24	353	295	191	228	216	245	263	76	242	138	184	219	222	227	185	213	217	180	156	152	58	24	313	357	215
25	284	328	313	305	329	278	296	317	96	224	221	233	228	232	241	265	247	225	170	269	276	121	193	152	253
26	166	328	222	316	13	39	101	63	349	345	261	229	263	277	252	285	231	267	262	28	111	137	206	112	277
27	145	122	112	78	166	130	195	157	175	159	27	46	333	22	348	184	305	290	42	86	40	14	21	94	84
28	118	230	166	118	236	119	124	181	152	170	64	20	8	336	28	49	27	268	154	141	92	138	77	38	108
Prev	168	171	167	164	183	156	171	159	165	166	134	38	35	338	312	270	250	228	171	137	141	156	159	162	170

Montana Resources LLP
Greeley School Air Monitoring Summary
Wind Direction - MDEQ monitor (degrees)
March 2025

	<< Hour >>																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Prev
1	149	145	188	112	31	180	113	298	158	80	21	27	48	16	17	14	307	303	184	142	256	109	125	29	84
2	147	125	134	98	173	352	120	143	139	89	337	9	26	318	343	287	9	331	55	79	182	115	56	142	80
3	248	92	144	261	75	114	155	326	347	6	9	10	30	64	70	275	228	140	196	191	205	155	202	159	141
4	77	119	169	219	215	160	190	203	33	37	112	316	316	322	329	317	341	206	217	124	196	142	231	17	200
5	213	144	95	149	275	243	122	138	226	275	293	256	251	63	88	46	338	315	211	198	301	126	149	236	209
6	184	190	167	163	218	167	159	178	236	216	350	358	356	344	355	349	355	356	1	351	14	33	347	38	346
7	23	141	182	199	30	92	169	157	66	79	7	15	35	26	267	260	279	311	305	288	348	66	343	249	360
8	150	127	236	125	192	124	158	207	153	12	333	28	6	42	23	326	273	287	201	51	197	75	37	53	88
9	38	220	216	69	50	67	46	111	269	307	8	327	149	259	246	252	246	226	180	155	55	249	106	32	228
10	63	95	64	44	11	280	84	161	227	240	250	233	235	248	265	300	311	307	286	166	68	102	102	122	241
11	162	133	36	188	145	67	126	193	224	230	231	245	250	262	275	235	241	255	277	152	207	179	127	110	201
12	158	102	190	172	63	131	145	306	282	18	266	184	205	206	214	198	177	192	309	171	159	161	170	170	182
13	146	182	211	158	154	164	157	271	216	212	347	66	61	258	253	232	229	250	334	322	327	306	305	307	242
14	312	304	311	304	317	204	138	190	124	357	17	334	220	223	266	240	205	227	290	238	203	189	167	181	243
15	77	161	300	109	151	155	138	4	7	77	207	221	238	240	228	234	211	358	229	209	214	68	143	130	182
16	122	173	188	158	164	279	232	158	213	333	26	208	225	222	217	212	207	222	234	182	209	307	341	304	216
17	292	244	294	307	331	232	225	218	192	240	27	322	256	270	4	14	342	306	300	155	1	266	241	335	288
18	322	318	324	302	284	295	325	304	306	305	307	304	251	299	308	293	319	318	350	345	305	306	303	288	308
19	287	190	160	178	141	132	185	145	23	1	40	24	50	191	188	199	201	227	255	151	136	136	111	158	159
20	159	326	119	132	159	34	357	353	188	316	276	268	253	237	232	237	235	234	249	290	301	307	252	263	260
21	153	164	148	203	134	250	239	226	111	115	211	232	227	222	203	207	206	228	218	174	161	160	164	175	190
22	185	237	353	41	287	299	313	267	303	316	325	301	295	294	292	285	276	294	286	288	230	282	148	77	291
23	74	99	39	18	52	130	42	324	67	31	36	98	245	249	255	243	218	229	231	225	206	224	52	11	40
24	237	233	215	218	48	245	204	198	149	278	292	285	244	254	286	272	238	248	236	208	34	255	135	179	237
25	183	185	204	40	38	118	286	36	39	41	45	54	229	29	226	274	251	248	252	39	134	175	157	159	146
26	35	202	31	29	102	87	72	129	48	343	354	323	324	329	338	88	104	118	183	116	142	140	113	182	77
27	128	185	35	144	250	104	283	21	203	11	6	23	254	220	213	201	193	204	182	132	54	60	180	175	172
28	68	125	220	88	166	347	116	327	49	23	331	31	17	287	287	275	151	167	156	210	313	57	212	177	83
29	217	199	227	254	209	347	209	225	358	100	337	286	65	333	54	358	322	12	47	4	186	302	313	288	308
30	305	294	141	187	194	203	127	157	209	228	227	233	180	158	156	113	97	103	105	118	176	119	112	168	164
31	210	292	218	279	76	192	80	185	60	29	359	345	353	226	177	167	146	217	162	196	206	45	243	295	207
Prev	154	172	182	155	133	160	149	206	172	356	340	324	278	273	269	263	248	256	240	175	205	136	151	169	221

Montana Resources LLP
Greeley School Air Monitoring Summary
Standard Deviation of Wind Direction - MDEQ monitor (degrees)
January 2025

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	44	51	34	52	47	58	83	59	34	53	20	21	62	47	37	25	27	73	26	33	37	49	43	34	44	83	20
2	47	36	29	23	50	52	32	55	78	41	56	67	45	35	39	47	41	67	38	60	70	33	42	67	48	78	23
3	22	47	48	31	34	49	29	33	47	39	34	20	34	35	38	57	51	64	48	42	63	80	34	33	42	80	20
4	24	68	40	76	57	27	23	38	53	35	43	20	18	20	29	28	33	57	36	51	47	41	16	34	38	76	16
5	55	74	66	64	77	60	72	86	77	60	56	51	59	33	23	21	46	33	20	26	45	21	42	22	50	86	20
6	67	43	46	34	27	39	43	31	69	43	45	42	53	34	25	23	29	31	60	24	24	47	59	32	40	69	23
7	36	61	67	24	55	20	27	24	34	50	40	51	57	30	27	33	32	23	25	26	39	61	50	24	38	67	20
8	22	25	70	20	41	67	61	59	46	61	79	57	65	61	52	34	15	27	42	29	26	36	28	48	45	79	15
9	41	26	49	37	34	37	28	18	29	26	26	37	25	24	53	25	38	64	44	42	48	29	75	61	38	75	18
10	60	69	67	63	41	64	71	75	73	74	60	30	42	55	40	50	45	31	38	40	37	59	54	44	53	75	30
11	30	38	34	24	29	20	18	20	17	31	20	22	29	32	19	18	28	31	43	47	41	36	49	31	29	49	17
12	32	43	19	43	35	50	50	73	44	42	26	47	68	60	43	40	47	37	25	44	32	42	47	66	44	73	19
13	46	54	54	61	52	59	74	77	80	42	23	35	23	48	26	19	18	22	54	55	35	61	51	20	45	80	18
14	56	55	57	57	39	55	38	54	36	42	39	43	58	43	59	36	30	37	41	58	31	45	52	40	46	59	30
15	81	61	58	75	74	54	56	72	54	31	45	45	31	49	73	27	47	40	38	59	54	60	58	49	54	81	27
16	60	74	74	78	83	82	70	73	94	65	41	63	49	31	43	40	24	49	41	44	72	46	32	23	56	94	23
17	27	24	22	36	24	21	18	20	24	29	30	28	24	23	24	27	22	46	32	23	32	25	21	18	26	46	18
18	24	30	34	19	62	39	32	58	57	45	27	64	60	57	64	47	39	21	19	25	20	19	17	17	37	64	17
19	17	18	22	23	22	25	17	22	33	32	34	62	27	26	22	23	24	22	29	50	21	16	54	36	28	62	16
20	20	58	26	26	41	23	41	31	45	24	39	44	59	65	43	34	37	27	66	31	62	48	40	52	41	66	20
21	46	70	64	73	65	74	82	80	82	49	67	51	50	47	41	30	32	36	32	25	23	27	28	30	50	82	23
22	24	25	22	18	33	36	80	42	50	47	17	33	28	33	56	52	26	42	34	34	27	49	50	51	38	80	17
23	46	60	55	27	22	69	46	61	69	30	64	46	45	34	46	51	54	72	66	64	66	73	85	65	55	85	22
24	63	65	62	59	54	18	50	63	40	24	40	30	26	22	20	19	23	79	66	55	43	64	65	66	47	79	18
25	72	72	AQ	59	54	80	71	61	75	51	40	37	29	28	44	32	27	21	15	33	28	65	30	23	46	80	15
26	79	45	46	20	30	18	23	19	20	63	50	40	63	54	62	60	56	27	29	26	41	69	57	55	44	79	18
27	29	56	62	56	58	53	48	58	67	33	40	39	35	60	52	58	23	24	37	46	45	59	55	51	48	67	23
28	53	42	36	54	35	56	41	40	38	43	37	47	56	53	39	24	25	39	30	48	64	60	73	39	45	73	24
29	55	65	50	68	72	48	45	59	68	46	57	34	74	57	59	30	63	31	72	45	91	56	65	66	57	91	30
30	66	76	74	74	90	59	63	76	75	68	64	48	45	40	65	53	59	49	61	85	76	64	69	82	66	90	40
31	73	69	86	57	49	76	54	60	65	47	39	59	58	17	18	18	22	28	25	35	21	50	34	26	45	86	17
Avg	46	52	49	46	48	48	48	52	54	44	42	42	45	40	41	35	35	40	40	42	44	48	48	42	45	75	21
Max	81	76	86	78	90	82	83	86	94	74	79	67	74	65	73	60	63	79	72	85	91	80	85	82	66	94	40
Min	17	18	19	18	22	18	17	18	17	24	17	20	18	17	18	18	15	21	15	23	20	16	16	17	26	46	15

Montana Resources LLP
Greeley School Air Monitoring Summary
Standard Deviation of Wind Direction - MDEQ monitor (degrees)
February 2025

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	61	31	16	22	73	22	33	37	29	30	36	32	23	28	44	37	32	25	56	21	50	64	71	59	39	73	16
2	61	77	68	39	23	59	50	35	13	35	23	23	54	53	60	58	31	36	40	50	40	48	37	44	44	77	13
3	29	24	24	17	19	54	64	19	53	51	53	56	59	44	35	27	21	48	42	37	36	63	22	27	39	64	17
4	27	34	81	21	51	31	29	36	21	46	52	78	58	64	27	24	23	21	26	68	71	51	51	71	44	81	21
5	21	36	43	45	33	44	58	23	46	62	67	40	46	42	38	54	61	27	56	38	72	40	41	47	45	72	21
6	67	65	49	44	61	64	40	28	29	32	40	15	14	25	55	48	34	29	45	19	53	33	47	58	41	67	14
7	63	47	42	39	35	34	29	23	25	29	52	34	25	28	26	25	24	33	53	30	51	41	44	56	37	63	23
8	31	25	23	23	29	27	38	27	34	50	70	60	55	49	37	44	52	51	51	44	32	66	81	83	45	83	23
9	85	73	79	79	62	55	67	18	26	29	46	57	35	37	46	44	28	43	46	43	62	61	56	57	51	85	18
10	45	63	73	30	70	25	30	36	39	23	25	29	50	62	32	43	40	40	34	43	39	22	57	24	41	73	22
11	26	27	38	39	34	42	44	48	21	30	40	33	34	35	39	25	28	27	27	42	44	36	28	19	34	48	19
12	32	30	48	26	35	35	21	31	46	34	22	38	30	62	65	53	39	21	31	46	39	47	76	66	41	76	21
13	80	52	63	81	48	69	54	69	61	58	37	48	51	45	46	55	45	39	60	55	70	74	67	60	58	81	37
14	64	46	66	56	62	59	44	49	23	34	42	45	27	32	42	15	12	42	41	32	43	24	55	26	41	66	12
15	38	53	31	27	23	25	32	51	31	27	32	43	33	24	25	40	33	45	61	57	65	88	33	43	40	88	23
16	59	21	25	30	51	44	37	49	19	30	38	42	41	29	45	35	47	44	29	36	38	62	69	62	41	69	19
17	79	64	86	49	67	49	73	44	41	25	44	29	58	33	40	30	26	38	30	48	44	36	31	44	46	86	25
18	20	23	27	40	56	33	58	34	50	56	58	19	33	33	37	20	18	21	37	43	38	65	60	42	38	65	18
19	39	25	53	47	36	38	66	39	35	28	29	21	19	26	19	40	20	16	30	20	21	41	43	67	34	67	16
20	77	56	63	58	53	62	71	64	60	53	35	35	22	22	31	28	19	24	24	48	62	28	23	31	44	77	19
21	46	31	45	45	54	64	38	53	60	51	28	20	19	22	17	17	18	20	25	25	68	50	70	80	40	80	17
22	72	76	80	90	56	56	37	46	58	68	53	51	23	41	29	34	57	40	34	61	79	57	72	67	56	90	23
23	68	61	51	42	64	14	13	44	49	21	35	20	24	24	36	52	47	28	17	46	36	30	25	45	37	68	13
24	47	70	64	23	25	47	36	58	63	44	54	30	29	57	26	29	23	32	17	18	45	41	73	65	42	73	17
25	37	50	17	26	25	35	35	61	36	48	24	28	25	24	29	43	34	26	44	49	44	71	32	54	37	71	17
26	52	49	58	55	65	54	46	40	41	44	50	41	56	45	47	40	44	33	51	58	56	51	56	66	50	66	33
27	42	72	54	78	59	74	90	49	54	33	52	64	60	30	28	57	20	32	64	31	50	36	54	64	52	90	20
28	74	81	80	58	66	48	73	83	66	43	59	56	28	27	40	21	41	44	19	57	62	62	59	66	55	83	19
Avg	52	49	52	44	48	45	47	43	40	40	43	39	37	37	37	37	33	33	39	42	50	50	51	53	43	74	20
Max	85	81	86	90	73	74	90	83	66	68	70	78	60	64	65	58	61	51	64	68	79	88	81	83	58	90	37
Min	20	21	16	17	19	14	13	18	13	21	22	15	14	22	17	15	12	16	17	18	21	22	22	19	34	48	12

Montana Resources LLP
Greeley School Air Monitoring Summary
Standard Deviation of Wind Direction - MDEQ monitor (degrees)
March 2025

	<< Hour >>																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	33	48	47	67	57	72	61	56	53	40	53	38	58	34	52	29	32	23	62	64	56	75	66	49	51	75	23
2	71	62	40	60	52	57	65	53	38	59	34	35	40	37	33	45	49	41	61	54	57	27	46	68	49	71	27
3	58	50	49	59	48	55	52	23	21	17	16	20	24	25	51	67	43	22	23	35	22	30	19	18	35	67	16
4	60	39	43	20	34	20	19	31	55	39	64	53	52	55	56	50	50	33	42	61	26	49	51	41	43	64	19
5	73	70	50	58	49	53	52	63	68	47	46	83	75	39	45	33	46	24	26	40	55	59	30	63	52	83	24
6	59	66	44	31	45	35	34	38	44	45	43	35	28	21	22	29	23	24	19	19	25	23	54	15	34	66	15
7	57	38	49	55	63	61	70	49	56	42	39	44	34	67	43	42	38	20	21	36	42	44	20	52	45	70	20
8	71	33	53	60	69	59	54	79	56	52	25	23	22	17	25	31	49	36	56	57	68	72	50	56	49	79	17
9	42	46	73	75	49	68	78	83	75	41	30	34	52	53	34	37	34	23	14	32	54	66	68	65	51	83	14
10	65	81	74	81	60	70	46	36	27	31	36	24	28	35	33	30	21	24	33	44	74	71	65	67	48	81	21
11	62	61	59	16	67	40	62	70	36	28	24	32	37	36	39	27	32	41	47	43	16	60	53	59	44	70	16
12	80	83	62	46	70	47	75	82	73	59	51	19	22	27	21	21	20	21	47	50	15	15	17	32	44	83	15
13	61	42	51	83	85	28	39	86	63	33	41	28	65	46	38	27	25	32	19	21	25	21	19	27	42	86	19
14	22	25	20	20	25	46	50	43	25	61	42	57	87	35	46	36	22	34	30	38	44	27	34	39	38	87	20
15	55	35	62	69	48	67	66	46	65	57	46	28	37	31	28	33	38	60	40	26	45	60	22	22	45	69	22
16	54	67	56	21	17	28	49	25	37	50	71	24	28	27	23	21	24	22	27	19	34	44	35	24	34	71	17
17	31	39	34	21	31	46	32	32	46	37	27	60	52	47	39	31	56	23	57	40	44	33	51	32	39	60	21
18	17	18	18	25	33	28	24	21	23	24	28	28	38	33	30	35	31	46	20	22	19	20	39	30	27	46	17
19	40	70	48	52	39	48	68	53	32	44	29	51	68	43	25	21	22	29	42	51	22	18	20	23	40	70	18
20	15	30	45	18	37	51	26	39	46	56	44	44	38	33	25	26	25	28	35	32	32	22	40	45	35	56	15
21	29	44	50	34	57	40	33	74	15	56	39	33	31	23	24	20	21	23	20	17	14	14	16	19	31	74	14
22	47	39	24	33	44	31	16	36	23	18	29	29	31	30	30	37	44	31	35	37	58	31	56	24	34	58	16
23	42	79	76	66	78	76	55	68	42	46	59	59	47	34	37	36	22	25	27	59	66	32	37	59	51	79	22
24	53	28	28	38	29	46	18	18	21	54	32	36	33	35	36	32	26	38	31	45	74	56	63	25	37	74	18
25	52	47	61	50	71	56	64	61	29	33	33	59	60	27	71	60	42	36	56	45	61	50	64	75	53	75	27
26	58	55	50	80	66	60	70	39	57	43	32	24	17	26	26	43	21	42	30	63	75	63	91	82	51	91	17
27	76	83	84	68	89	68	51	48	53	43	38	62	40	23	23	22	22	22	16	39	29	72	65	74	50	89	16
28	80	73	71	49	43	66	39	54	25	58	37	53	67	61	45	62	72	32	27	30	23	32	17	23	47	80	17
29	31	38	22	37	61	42	47	42	49	44	42	50	20	26	81	40	22	52	41	48	67	21	46	69	43	81	20
30	32	58	37	21	43	37	32	69	22	27	24	32	38	46	26	30	23	21	29	40	40	63	50	39	37	69	21
31	20	38	39	46	81	67	62	49	45	33	52	52	63	61	22	23	26	52	19	22	47	24	37	36	42	81	19
Avg	50	51	49	47	53	51	49	51	43	42	39	40	43	37	36	35	33	32	34	40	43	42	43	44	43	74	19
Max	80	83	84	83	89	76	78	86	75	61	71	83	87	67	81	67	72	60	62	64	75	75	91	82	53	91	27
Min	15	18	18	16	17	20	16	18	15	17	16	19	17	17	21	20	20	20	14	17	14	14	16	15	27	46	14

APPENDIX B: GRAVIMETRIC ANALYSIS DATA

Quarter 1, 2025 Filter Analysis Results - PM10 - Greeley

FILTER	DATE	AVG FLOW LPM	HOURS	SAMPLE VOLUME (M3)	PRE WEIGHT (MG)	PRE-WEIGHT DATE	POST WEIGHT (MG)	POST-WEIGHT DATE	PART MASS (MG)	CONC (UG/M3)	DEQ (UG/M3)
C1853184	01/01	16.70	24:00	24.03	116.380	9-Dec	116.535	5-Feb	0.155	6.5	15.4
C1109052	01/07	16.71	23:59	24.03	127.661	30-Dec	127.957	11-Feb	0.296	12.3	12.0
C1109055	01/13	16.70	24:00	24.02	128.075	30-Dec	128.318	11-Feb	0.243	10.1	9.5
C1109057	01/19	16.71	24:00	24.03	124.702	30-Dec	124.965	11-Feb	0.263	10.9	14.3
C1109059	01/25	16.70	24:00	24.02	123.789	30-Dec	124.169	11-Feb	0.380	15.8	14.1
C1109086	01/31	16.70	24:00	24.03	126.320	26-Jan	126.846	3-Mar	0.526	21.9	24.0
C1109089	02/06	16.71	23:59	24.03	127.153	26-Jan	127.345	3-Mar	0.192	8.0	10.2
C1109091	02/12	16.70	24:00	24.01	124.891	26-Jan	125.374	3-Mar	0.483	20.1	18.6
C1109093	02/18	16.70	24:00	24.03	128.979	26-Jan	129.273	3-Mar	0.294	12.2	10.0
C1109077	02/24	16.70	24:00	24.03	126.985	13-Feb	127.111	2-Apr	0.126	5.2	7.1
C1109080	03/02	16.71	24:00	24.03	124.467	13-Feb	125.045	2-Apr	0.578	24.1	29.5
C1109082	03/08	16.70	24:00	24.03	125.274	13-Feb	125.621	2-Apr	0.347	14.4	19.6
C1109084	03/14	16.70	24:00	24.04	123.998	13-Feb	124.205	2-Apr	0.207	8.6	9.0
C1104708	03/20	16.71	23:59	24.03	118.089	7-Mar	118.312	18-Apr	0.223	9.3	11.8
C1104710	03/26	16.70	24:00	24.03	119.640	7-Mar	120.171	18-Apr	0.531	22.1	30.5

Quarter 1, 2025 Filter Analysis Results - TSP Greeley

FILTER	START	END	HOURS	FLOW LPM	SAMPLE VOLUME (M3)	PRE WEIGHT (MG)	PRE-WEIGHT DATE	POST WEIGHT (MG)	POST-WEIGHT DATE	PART MASS (MG)	CONC (UG/M3)	E-S CONC (UG/M3)	TRUE E-S MULT	MDEQ PM10
C1853183	12/30 @ 16	01/06 @ 15	168	2.0	19.22	117.419	9-Dec	117.769	5-Feb	0.350	18.2	20.8	4.38	12.9
C1109051	01/06 @ 16	01/09 @ 13	70	2.0	8.01	128.295	30-Dec	128.390	11-Feb	0.095	11.9	29.8	1.99	12.5
C1109054	01/09 @ 14	01/14 @ 15	122	2.0	13.96	125.366	30-Dec	125.550	11-Feb	0.184	13.2	25.1	2.63	14.3
C1109056	01/14 @ 16	01/21 @ 15	168	2.0	19.22	126.445	30-Dec	126.968	11-Feb	0.523	27.2	41.2	3.30	20.1
C1109058	01/21 @ 16	01/28 @ 15	168	2.0	19.22	123.656	30-Dec	124.608	11-Feb	0.952	49.5	72.9	3.40	28.8
C1109085	01/28 @ 16	02/03 @ 15	144	2.0	16.47	127.294	26-Jan	127.702	3-Mar	0.408	24.8	62.9	1.97	25.4
C1109088	02/03 @ 16	02/11 @ 14	191	2.0	21.85	125.774	26-Jan	126.389	3-Mar	0.615	28.1	45.2	3.11	15.6
C1109090	02/11 @ 15	02/14 @ 14	72	2.0	8.24	126.849	26-Jan	127.057	3-Mar	0.208	25.3	76.0	1.66	23.9
C1109092	02/14 @ 15	02/19 @ 11	117	2.0	13.38	124.909	26-Jan	125.126	3-Mar	0.217	16.2	36.8	2.20	13.3
C1109076	02/19 @ 12	02/25 @ 15	148	2.0	16.93	125.138	13-Feb	125.275	2-Apr	0.137	8.1	22.7	1.78	12.4
C1109078	02/25 @ 16	03/05 @ 15	192	2.0	21.96	124.862	13-Feb	125.317	2-Apr	0.455	20.7	43.5	2.38	21.4
C1109081	03/05 @ 16	03/12 @ 14	166	2.0	18.99	125.601	13-Feb	126.048	2-Apr	0.447	23.5	27.4	4.30	17.8
C1109083	03/12 @ 15	03/18 @ 9	138	2.0	15.79	129.029	13-Feb	129.195	2-Apr	0.166	10.5	11.0	4.78	8.3
C1104707	03/18 @ 10	03/25 @ 13	172	2.0	19.68	120.705	7-Mar	120.888	18-Apr	0.183	9.3	16.5	2.82	10.0
C1104709	03/25 @ 14	03/31 @ 13	144	2.0	16.47	118.288	7-Mar	118.580	18-Apr	0.292	17.7	16.1	5.50	15.7
C1104715	03/31 @ 14	04/02 @ 10	45	2.0	5.15	118.861	7-Mar	119.006	18-Apr	0.145	28.2	7.7	18.29	

Quarter 1, 2025 Filter Analysis Results - Blanks - Greeley

FILTER	TYPE	DATE*	PRE WEIGHT (MG)	PRE-WEIGHT DATE	POST WEIGHT (MG)	POST-WEIGHT DATE	PART MASS (MG)
C1853176	Lab	20-Feb	117.115	9-Dec	117.118	5-Feb	0.003
C1853185	Field	6-Jan	115.972	9-Dec	115.986	5-Feb	0.014
C1109053	Lab	27-Feb	125.889	30-Dec	125.892	11-Feb	0.003
C1109060	Field	28-Jan	125.777	30-Dec	125.786	11-Feb	0.009
C1109087	Lab	11-Mar	123.511	26-Jan	123.510	3-Mar	-0.001
C1109094	Field	19-Feb	130.490	26-Jan	130.494	3-Mar	0.004
C1109079	Lab	8-Apr	127.002	13-Feb	127.001	2-Apr	0.018
C1109100	Field	18-Mar	126.794	13-Feb	126.798	2-Apr	0.004
C1104706	Lab	1-May	119.557	7-Mar	119.562	18-Apr	0.005
C1104711	Field	2-Apr	121.965	7-Mar	121.995	18-Apr	0.030

*Denotes collection date for Field Blank, analysis date for Laboratory Blanks

APPENDIX C: WIND ROSE TABLES

Table C-1. Quarterly Wind Rose Summary, Greeley School (All Data)

First Quarter 2025 (All Data)																	
	Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	1.6	3.0	3.8	3.7	2.7	3.4	7.4	8.3	10.7	6.0	3.8	2.0	1.5	1.7	1.2	1.3	62.1
	1.1 - 2.0	1.5	1.8	1.7	0.8	0.4	0.5	1.0	1.7	1.8	1.6	3.4	1.3	1.3	2.8	2.2	1.2	25.0
	2.1 - 3.0	0.6	0.6	0.3	0.1	0.1	0.2	0.3	0.6	0.7	0.7	0.9	0.7	0.2	1.3	1.5	0.4	9.2
	3.1 - 4.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.4	0.5	0.4	0.0	0.3	0.3	0.1	2.9
	4.1 - 5.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.1	0.0	0.8
	5.1 - 6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	11.1 - 12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12.1 - 13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	13.1 - 14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	16.1 - 17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	17.1 - 18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	18.1 - 19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	19.1 - 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	> 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm																	0.0
	Total	4.1	5.6	5.8	4.6	3.2	4.1	8.7	10.9	13.2	8.8	8.8	4.4	3.1	6.2	5.3	3.1	100.0
	Average Speed	1.6	1.3	1.0	0.8	0.8	0.8	0.8	0.9	0.9	1.1	1.5	1.5	1.2	1.6	1.8	1.4	1.1

Table C-2. Quarterly Wind Rose Summary, Greeley School TSP > 40

First Quarter 2025 (TSP >40 µg/m^3)																	
	Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	2.2	4.4	3.6	5.1	5.8	7.6	12.7	13.5	19.3	5.5	2.9	0.7	1.1	1.8	1.1	1.5	88.7
	1.1 - 2.0	0.7	0.4	1.1	0.4	0.0	0.0	0.0	0.0	0.4	0.7	0.7	0.0	0.0	0.4	0.0	0.4	5.1
	2.1 - 3.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	1.5	0.4	0.4	3.3
	3.1 - 4.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	2.2
	4.1 - 5.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
	5.1 - 6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	11.1 - 12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12.1 - 13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	13.1 - 14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	16.1 - 17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	17.1 - 18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	18.1 - 19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	19.1 - 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	> 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm																	0.0
	Total	5.1	5.1	4.7	5.5	5.8	7.6	12.7	13.8	20.0	6.2	3.6	0.7	1.1	3.6	2.2	2.2	100.0
	Average Speed	1.9	1.0	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.8	1.5	2.0	1.0	0.8

Table C-3. Quarterly Wind Rose Summary, Greeley School TSP < 7

First Quarter 2025 (TSP <7 µg/m^3)																	
	Direction>>>	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
Wind Speed (meters per second)	0.1 - 1.0	1.2	2.1	2.3	1.6	0.5	1.1	0.9	1.4	2.0	1.4	2.5	1.8	1.6	1.6	0.9	1.8	24.6
	1.1 - 2.0	2.7	3.2	2.5	1.1	0.5	1.2	1.1	1.6	3.2	2.0	6.2	3.9	4.3	8.5	5.0	2.5	49.3
	2.1 - 3.0	0.9	0.7	0.5	0.2	0.4	0.5	0.5	1.2	1.4	1.8	2.3	1.2	0.5	3.0	3.9	0.4	19.5
	3.1 - 4.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1	1.1	0.9	0.2	0.9	0.4	0.0	5.0
	4.1 - 5.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.2	0.0	0.0	0.4	0.0	1.6
	5.1 - 6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6.1 - 7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	7.1 - 8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8.1 - 9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	9.1 - 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	10.1 - 11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	11.1 - 12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12.1 - 13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	13.1 - 14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	14.1 - 15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15.1 - 16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	16.1 - 17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	17.1 - 18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	18.1 - 19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	19.1 - 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	> 20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm																	0.0
	Total	5.1	6.2	5.3	2.8	1.4	2.8	2.5	4.3	6.7	6.4	12.8	8.0	6.6	14.0	10.5	4.6	100.0
	Average Speed	1.7	1.4	1.2	1.1	1.3	1.4	1.5	1.6	1.5	2.1	1.9	1.7	1.5	1.8	2.0	1.3	1.7

APPENDIX D: LABORATORY ANALYSIS REPORTS

ANALYTICAL SUMMARY REPORT

February 27, 2025

Bison Engineering
3143 E Lyndale Ave
Helena, MT 59601-6401

Work Order: B25020654 Quote ID: B4795

Project Name: Montana Resources/Greely School DH

Energy Laboratories Inc Billings MT received the following 10 samples for Bison Engineering on 2/13/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25020654-001	Particulate Filter C1853176 Lab Blank	12/09/24 16:20	02/13/25	Air	Metals on air filter by ICP/ICPMS Nitric acid-extraction by 40CFR50G
B25020654-002	Particulate Filter C1853177 TSP 12/11-12/18	12/18/24 00:00	02/13/25	Air	Same As Above
B25020654-003	Particulate Filter C18531778 PM10	12/14/24 00:00	02/13/25	Air	Same As Above
B25020654-004	Particulate Filter C1853179 TSP 12/18-12/23	12/23/24 00:00	02/13/25	Air	Same As Above
B25020654-005	Particulate Filter C1853180 PM10	12/20/24 00:00	02/13/25	Air	Same As Above
B25020654-006	Particulate Filter C1853181 TSP 12/20-12/30	12/30/24 00:00	02/13/25	Air	Same As Above
B25020654-007	Particulate Filter C1853182 PM10	12/26/24 00:00	02/13/25	Air	Same As Above
B25020654-008	Particulate Filter C1853183 TSP 12/30-1/6	01/06/25 00:00	02/13/25	Air	Same As Above
B25020654-009	Particulate Filter C1853184 PM10	01/01/25 00:00	02/13/25	Air	Same As Above
B25020654-010	Particulate Filter C1853185 Field Blank	01/06/25 13:26	02/13/25	Air	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.

CLIENT: Bison Engineering
Project: Montana Resources/Greely School DH
Work Order: B25020654

Report Date: 02/27/25

CASE NARRATIVE

Per client request, results are based on the final concentration using 25 mL of extraction solution per filter.

All "J" qualified analyte concentrations are below the laboratory minimum recommended Reporting Limit (RL) and above the lowest method detection limit (MDL)/Limit of Detection (LOD). Inorganic analytes reported with "J" qualifiers should be verified against the corresponding method blank and continuing calibration blanks. Inorganic "J" quantitations near the MDL/LOD may be suspect due to possible method background levels, sample matrix effects, and/or daily variability in instrument signal-to-noise levels.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1853176 Lab Blank
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25020654-001
Collection Date: 12/09/24 16:20
DateReceived: 02/13/25
Report Date: 02/27/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/26/25 21:45 / ae	02/14/25 09:41	40CFR50	ICPMS208-B_250226A	121	197366
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	02/20/25 07:20 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	384	197366
Copper	ND	ug/filter		1.0	0.16	E200.8	02/20/25 07:20 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	384	197366
Lead	ND	ug/filter		1.0	0.042	E200.8	02/20/25 07:20 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	384	197366
Manganese	ND	ug/filter		1.0	0.18	E200.8	02/20/25 07:20 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	384	197366
Molybdenum	0.0093	ug/filter	J	1.0	0.0059	E200.8	02/20/25 16:52 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	59	197366
Zinc	ND	ug/filter		1.0	0.30	E200.8	02/20/25 07:20 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	384	197366

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1853177 TSP 12/11-12/18
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25020654-002
Collection Date: 12/18/24
DateReceived: 02/13/25
Report Date: 02/27/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/26/25 21:51 / ae	02/14/25 09:41	40CFR50	ICPMS208-B_250226A	122	197366
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	02/20/25 07:26 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	385	197366
Copper	ND	ug/filter		1.0	0.16	E200.8	02/20/25 07:26 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	385	197366
Lead	ND	ug/filter		1.0	0.042	E200.8	02/20/25 07:26 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	385	197366
Manganese	ND	ug/filter		1.0	0.18	E200.8	02/20/25 07:26 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	385	197366
Molybdenum	ND	ug/filter		1.0	0.0059	E200.8	02/26/25 21:51 / ae	02/14/25 09:41	40CFR50	ICPMS208-B_250226A	122	197366
Zinc	ND	ug/filter		1.0	0.30	E200.8	02/20/25 07:26 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	385	197366

Report Definitions: RL - Analyte Reporting Limit | MCL - Maximum Contaminant Level | ND - Not detected at the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C18531778 PM10
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25020654-003
Collection Date: 12/14/24
DateReceived: 02/13/25
Report Date: 02/27/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/26/25 21:57 / ae	02/14/25 09:41	40CFR50	ICPMS208-B_250226A	123	197366
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	02/20/25 07:32 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	386	197366
Copper	ND	ug/filter		1.0	0.16	E200.8	02/20/25 07:32 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	386	197366
Lead	ND	ug/filter		1.0	0.042	E200.8	02/20/25 07:32 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	386	197366
Manganese	ND	ug/filter		1.0	0.18	E200.8	02/20/25 07:32 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	386	197366
Molybdenum	0.010	ug/filter	J	1.0	0.0059	E200.8	02/20/25 17:04 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	61	197366
Zinc	ND	ug/filter		1.0	0.30	E200.8	02/20/25 07:32 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	386	197366

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1853179 TSP 12/18-12/23
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25020654-004
Collection Date: 12/23/24
DateReceived: 02/13/25
Report Date: 02/27/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/26/25 22:03 / ae	02/14/25 09:41	40CFR50	ICPMS208-B_250226A	124	197366
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	02/20/25 07:37 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	387	197366
Copper	0.67	ug/filter	J	1.0	0.16	E200.8	02/20/25 17:10 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	62	197366
Lead	ND	ug/filter		1.0	0.042	E200.8	02/20/25 07:37 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	387	197366
Manganese	ND	ug/filter		1.0	0.18	E200.8	02/20/25 07:37 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	387	197366
Molybdenum	0.027	ug/filter	J	1.0	0.0059	E200.8	02/20/25 17:10 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	62	197366
Zinc	0.45	ug/filter	J	1.0	0.30	E200.8	02/20/25 17:10 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	62	197366

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1853180 PM10
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25020654-005
Collection Date: 12/20/24
DateReceived: 02/13/25
Report Date: 02/27/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/26/25 22:09 / ae	02/14/25 09:41	40CFR50	ICPMS208-B_250226A	125	197366
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	02/20/25 07:43 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	388	197366
Copper	ND	ug/filter		1.0	0.16	E200.8	02/20/25 07:43 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	388	197366
Lead	ND	ug/filter		1.0	0.042	E200.8	02/20/25 07:43 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	388	197366
Manganese	ND	ug/filter		1.0	0.18	E200.8	02/20/25 07:43 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	388	197366
Molybdenum	0.0078	ug/filter	J	1.0	0.0059	E200.8	02/20/25 17:16 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	63	197366
Zinc	ND	ug/filter		1.0	0.30	E200.8	02/20/25 07:43 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	388	197366

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1853181 TSP 12/20-12/30
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25020654-006
Collection Date: 12/30/24
DateReceived: 02/13/25
Report Date: 02/27/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/26/25 22:15 / ae	02/14/25 09:41	40CFR50	ICPMS208-B_250226A	126	197366
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	02/20/25 08:01 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	391	197366
Copper	0.56	ug/filter	J	1.0	0.16	E200.8	02/20/25 17:22 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	64	197366
Lead	ND	ug/filter		1.0	0.042	E200.8	02/20/25 08:01 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	391	197366
Manganese	ND	ug/filter		1.0	0.18	E200.8	02/20/25 08:01 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	391	197366
Molybdenum	0.029	ug/filter	J	1.0	0.0059	E200.8	02/20/25 17:22 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	64	197366
Zinc	0.32	ug/filter	J	1.0	0.30	E200.8	02/20/25 17:22 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	64	197366

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1853182 PM10
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25020654-007
Collection Date: 12/26/24
DateReceived: 02/13/25
Report Date: 02/27/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.066	ug/filter	J	1.0	0.058	E200.8	02/26/25 22:21 / ae	02/14/25 09:41	40CFR50	ICPMS208-B_250226A	127	197366
Cadmium	0.0087	ug/filter	J	1.0	0.0044	E200.8	02/20/25 17:40 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	67	197366
Copper	1.8	ug/filter		1.0	0.16	E200.8	02/20/25 08:07 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	392	197366
Lead	0.098	ug/filter	J	1.0	0.042	E200.8	02/20/25 17:40 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	67	197366
Manganese	0.53	ug/filter	J	1.0	0.18	E200.8	02/20/25 17:40 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	67	197366
Molybdenum	0.053	ug/filter	J	1.0	0.0059	E200.8	02/20/25 17:40 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	67	197366
Zinc	1.2	ug/filter		1.0	0.30	E200.8	02/20/25 08:07 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	392	197366

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1853183 TSP 12/30-1/6
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25020654-008
Collection Date: 01/06/25
DateReceived: 02/13/25
Report Date: 02/27/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/26/25 22:27 / ae	02/14/25 09:41	40CFR50	ICPMS208-B_250226A	128	197366
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	02/20/25 08:13 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	393	197366
Copper	0.87	ug/filter	J	1.0	0.16	E200.8	02/20/25 17:46 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	68	197366
Lead	0.045	ug/filter	J	1.0	0.042	E200.8	02/20/25 17:46 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	68	197366
Manganese	0.21	ug/filter	J	1.0	0.18	E200.8	02/20/25 17:46 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	68	197366
Molybdenum	0.051	ug/filter	J	1.0	0.0059	E200.8	02/20/25 17:46 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	68	197366
Zinc	0.49	ug/filter	J	1.0	0.30	E200.8	02/20/25 17:46 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	68	197366

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1853184 PM10
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25020654-009
Collection Date: 01/01/25
DateReceived: 02/13/25
Report Date: 02/27/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/26/25 22:45 / ae	02/14/25 09:41	40CFR50	ICPMS208-B_250226A	131	197366
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	02/20/25 08:18 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	394	197366
Copper	0.52	ug/filter	J	1.0	0.16	E200.8	02/20/25 17:52 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	69	197366
Lead	ND	ug/filter		1.0	0.042	E200.8	02/20/25 08:18 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	394	197366
Manganese	ND	ug/filter		1.0	0.18	E200.8	02/20/25 08:18 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	394	197366
Molybdenum	0.030	ug/filter	J	1.0	0.0059	E200.8	02/20/25 17:52 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	69	197366
Zinc	0.30	ug/filter	J	1.0	0.30	E200.8	02/20/25 17:52 / jks	02/14/25 09:41	40CFR50	ICPMS208-B_250220A	69	197366

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1853185 Field Blank
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25020654-010
Collection Date: 01/06/25 13:26
DateReceived: 02/13/25
Report Date: 02/27/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/20/25 08:24 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	395	197366
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	02/20/25 08:24 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	395	197366
Copper	ND	ug/filter		1.0	0.16	E200.8	02/20/25 08:24 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	395	197366
Lead	ND	ug/filter		1.0	0.042	E200.8	02/20/25 08:24 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	395	197366
Manganese	ND	ug/filter		1.0	0.18	E200.8	02/20/25 08:24 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	395	197366
Molybdenum	ND	ug/filter		1.0	0.0050	E200.8	02/20/25 08:24 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	395	197366
Zinc	ND	ug/filter		1.0	0.30	E200.8	02/20/25 08:24 / jks	02/14/25 09:41	40CFR50	ICPMS207-B_250218A	395	197366

Report Definitions: RL - Analyte Reporting Limit | MCL - Maximum Contaminant Level | ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25020654 **Report Date:** 02/27/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Analytical Run: ICPMS207-B_250218A	
Lab ID: QCS	7	Initial Calibration Verification Standard								02/20/25 05:58
Arsenic		0.0508	mg/L	0.0050	102	90	110			
Cadmium		0.0252	mg/L	0.0010	101	90	110			
Copper		0.0523	mg/L	0.010	105	90	110			
Lead		0.0530	mg/L	0.0010	106	90	110			
Manganese		0.258	mg/L	0.0050	103	90	110			
Molybdenum		0.0494	mg/L	0.0050	99	90	110			
Zinc		0.0521	mg/L	0.0050	104	90	110			
Lab ID: CCV	7	Continuing Calibration Verification Standard								02/20/25 06:27
Arsenic		0.0477	mg/L	0.0050	95	90	110			
Cadmium		0.0449	mg/L	0.0010	90	90	110			
Copper		0.0481	mg/L	0.010	96	90	110			
Lead		0.0483	mg/L	0.0010	97	90	110			
Manganese		0.0480	mg/L	0.0050	96	90	110			
Molybdenum		0.0450	mg/L	0.0050	90	90	110			
Zinc		0.0480	mg/L	0.0050	96	90	110			
Lab ID: CCV	7	Continuing Calibration Verification Standard								02/20/25 07:49
Arsenic		0.0480	mg/L	0.0050	96	90	110			
Cadmium		0.0451	mg/L	0.0010	90	90	110			
Copper		0.0491	mg/L	0.010	98	90	110			
Lead		0.0470	mg/L	0.0010	94	90	110			
Manganese		0.0486	mg/L	0.0050	97	90	110			
Molybdenum		0.0449	mg/L	0.0050	90	90	110			
Zinc		0.0484	mg/L	0.0050	97	90	110			
Method: E200.8									Batch: 197366	
Lab ID: MB-197366	7	Method Blank				Run: ICPMS207-B_250218A				02/20/25 06:56
Arsenic		ND	ug/filter	0.06						
Cadmium		ND	ug/filter	0.006						
Copper		0.2	ug/filter	0.2						
Lead		ND	ug/filter	0.04						
Manganese		ND	ug/filter	0.2						
Molybdenum		ND	ug/filter	0.005						
Zinc		0.6	ug/filter	0.3						
Lab ID: LCS-197366	7	Laboratory Control Sample				Run: ICPMS207-B_250218A				02/20/25 07:02
Arsenic		92.0	ug/filter	1.0	92	85	115			
Cadmium		45.0	ug/filter	1.0	90	85	115			
Copper		95.0	ug/filter	1.0	95	85	115			
Lead		98.3	ug/filter	1.0	98	85	115			
Manganese		478	ug/filter	1.0	96	85	115			
Molybdenum		98.9	ug/filter	1.0	99	85	115			
Zinc		90.3	ug/filter	1.0	90	85	115			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25020654 **Report Date:** 02/27/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E200.8**										Batch: 197366
Lab ID: **LCSD-197366**	7	Laboratory Control Sample Duplicate				Run: ICPMS207-B_250218A				02/20/25 07:08
Arsenic		93.8	ug/filter	1.0	94	85	115			
Cadmium		46.2	ug/filter	1.0	92	85	115			
Copper		96.6	ug/filter	1.0	97	85	115			
Lead		102	ug/filter	1.0	102	85	115			
Manganese		493	ug/filter	1.0	99	85	115			
Molybdenum		99.4	ug/filter	1.0	99	85	115			
Zinc		92.0	ug/filter	1.0	92	85	115			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25020654 **Report Date:** 02/27/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Analytical Run: ICPMS208-B_250220A	
Lab ID: QCS	6	Initial Calibration Verification Standard								02/20/25 12:25
Cadmium		0.0253	mg/L	0.0010	101	90	110			
Copper		0.0522	mg/L	0.010	104	90	110			
Lead		0.0502	mg/L	0.0010	100	90	110			
Manganese		0.256	mg/L	0.0050	102	90	110			
Molybdenum		0.0495	mg/L	0.0050	99	90	110			
Zinc		0.0523	mg/L	0.0050	105	90	110			
Lab ID: CCV	6	Continuing Calibration Verification Standard								02/20/25 15:40
Cadmium		0.0494	mg/L	0.0010	99	90	110			
Copper		0.0502	mg/L	0.010	100	90	110			
Lead		0.0500	mg/L	0.0010	100	90	110			
Manganese		0.0499	mg/L	0.0050	100	90	110			
Molybdenum		0.0492	mg/L	0.0050	98	90	110			
Zinc		0.0506	mg/L	0.0050	101	90	110			
Lab ID: CCV	6	Continuing Calibration Verification Standard								02/20/25 17:28
Cadmium		0.0471	mg/L	0.0010	94	90	110			
Copper		0.0504	mg/L	0.010	101	90	110			
Lead		0.0476	mg/L	0.0010	95	90	110			
Manganese		0.0500	mg/L	0.0050	100	90	110			
Molybdenum		0.0469	mg/L	0.0050	94	90	110			
Zinc		0.0514	mg/L	0.0050	103	90	110			
Lab ID: QCS	6	Initial Calibration Verification Standard								02/21/25 19:45
Cadmium		0.0245	mg/L	0.0010	98	90	110			
Copper		0.0521	mg/L	0.010	104	90	110			
Lead		0.0490	mg/L	0.0010	98	90	110			
Manganese		0.257	mg/L	0.0050	103	90	110			
Molybdenum		0.0484	mg/L	0.0050	97	90	110			
Zinc		0.0514	mg/L	0.0050	103	90	110			
Lab ID: CCV	6	Continuing Calibration Verification Standard								02/22/25 03:16
Cadmium		0.0458	mg/L	0.0010	92	90	110			
Copper		0.0495	mg/L	0.010	99	90	110			
Lead		0.0461	mg/L	0.0010	92	90	110			
Manganese		0.0482	mg/L	0.0050	96	90	110			
Molybdenum		0.0451	mg/L	0.0050	90	90	110			
Zinc		0.0488	mg/L	0.0050	97	90	110			
Method: E200.8									Batch: 197366	
Lab ID: MB-197366	6	Method Blank				Run: ICPMS208-B_250220A				02/20/25 16:46
Cadmium		ND	ug/filter	0.004						
Copper		ND	ug/filter	0.2						
Lead		ND	ug/filter	0.04						
Manganese		ND	ug/filter	0.2						
Molybdenum		ND	ug/filter	0.006						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25020654 **Report Date:** 02/27/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 197366
Lab ID: MB-197366	6	Method Blank				Run: ICPMS208-B_250220A				02/20/25 16:46
Zinc		ND	ug/filter	0.3						
Method: E200.8										Analytical Run: ICPMS208-B_250226A
Lab ID: QCS	2	Initial Calibration Verification Standard								02/26/25 18:34
Arsenic		0.0508	mg/L	0.0050	102	90	110			
Molybdenum		0.0487	mg/L	0.0050	97	90	110			
Lab ID: CCV	2	Continuing Calibration Verification Standard								02/26/25 21:15
Arsenic		0.0499	mg/L	0.0050	100	90	110			
Molybdenum		0.0481	mg/L	0.0050	96	90	110			
Lab ID: CCV	2	Continuing Calibration Verification Standard								02/26/25 22:33
Arsenic		0.0497	mg/L	0.0050	99	90	110			
Molybdenum		0.0452	mg/L	0.0050	90	90	110			
Method: E200.8										Batch: 197366
Lab ID: MB-197366	2	Method Blank				Run: ICPMS208-B_250226A				02/26/25 21:39
Arsenic		ND	ug/filter	0.06						
Molybdenum		ND	ug/filter	0.006						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Work Order Receipt Checklist

Bison Engineering

B25020654

Login completed by: Crystal M. Jones
Date Received: 2/13/2025
Reviewed by: dharris
Received by: KLP
Reviewed Date: 2/14/2025
Carrier name: Hand Deliver

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	-1.8°C Blue Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None

Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
Billings, MT	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
	Florida (Primary NELAP)	E87668
	Idaho	MT00005
	Louisiana	05079
	Montana	CERT0044
	Nebraska	NE-OS-13-04
	Nevada	NV-C24-00250
	North Dakota	R-007
	National Radon Proficiency	109383-RMP
	Oregon	4184
	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
Casper, WY	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
	Montana	CERT0002
	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
Helena, MT	Colorado	MT00945
	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

Chain of Custody & Analytical Request Record

ENERGY LABORATORIES — Trust our People. Trust our Data.

www.energylab.com

Account Information *(Billing information)*

Company/Name	Bison Engineering, Inc.
Contact	Melissa Young
Phone	(406) 442-5768
Mailing Address	3143 E Lyndale Avenue
City, State, Zip	Helena MT, 59601
Email	myoung@bison-eng.com
Receive Invoice	☐Hard Copy ☒Email
Receive Report	☐Hard Copy ☐Email
Purchase Order	MTR223018
Quote	
Bottle Order	

Report Information *(if different than Account Information)*

Company/Name	Bison Engineering, Inc.
Contact	Don Milmine
Phone	(406) 208-4833
Mailing Address	2751 Enterprise Avenue Suite 2
City, State, Zip	Billings, MT 59102
Email	dmilmine@bison-eng.com
Receive Report	☐Hard Copy ☒Email
Special Report/Formats:	☐ LEVEL IV ☐ NELAC ☐ EDD/EDT *(contact laboratory)* ☐ Other_____

Comments

Analyze per history

Project Information

Project Name, PWSID, Permit, etc.	Momtana Resources/Greely School DH
Sampler Name	Sampler Phone
Sample Origin State	Montana
EPA/State Compliance	☒ Yes ☐ No

URANIUM MINING CLIENTS MUST indicate sample type.
☐ NOT Source or Byproduct Material
☐ Source/Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11e.(2) Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

Matrix Codes
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Other
DW - Drinking Water

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

	Sample Identification *(Name, Location, Interval, etc.)*	Collection Date	Collection Time	Number of Containers	Matrix *(See Codes Above)*	Arsenic	Cadmium	Copper	Lead	Manganese	Molybdenum	Zinc			See Attached	RUSH TAT	ELI LAB ID *Laboratory Use Only*
1	Particulate filter C1853176 Lab Blank	12/9/24	1620	1	on teflon filter	X	X	X	X	X	X	X					B25020654
2	Particulate filter C1853177 TSP 12/11-12/18	12/11→12/18	continuous	1	on Teflon filter	X	X	X	X	X	X	X					
3	Particulate filter C18531778 PM10	12/14/24	24 hr composite	1	on Teflon filter	X	X	X	X	X	X	X					
4	Particulate filter C1853179 TSP 12/18-12/23	12/18→12/23	continuous	1	on teflon filter	X	X	X	X	X	X	X					
5	Particulate filter C1853180 PM10	12/20/24	24 hr composite	1	on teflon filter	X	X	X	X	X	X	X					
6	Particulate filter C1853181 TSP 12/20 - 12/30	12/20→12/30	continuous	1	on teflon filter	X	X	X	X	X	X	X					
7	Particulate filter C1853182 PM10	12/26/24	24 hr composite	1	on teflon filter	X	X	X	X	X	X	X					
8	Particulate filter C1853183 TSP 12/30 - 1/6	12/30→1/6	continuous	1	on teflon filter	X	X	X	X	X	X	X					
9	Particulate filter C1853184 PM10	1/1/25	24 hr composite	1	on teflon filter	X	X	X	X	X	X	X					
10	Particulate filter C1853185 Field Blank	1/6/25	1326	1	on teflon filter	X	X	X	X	X	X	X					

Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	Don Milmine	2/13/25 0840	Don Milmine			
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
				[illegible]	02-13-25 0840	

LABORATORY USE ONLY

Shipped By	Cooler ID(s)	Custody Seals Y N C B	Intact Y N	Receipt Temp °C	Temp Blank Y N	On Ice Y N	Payment Type CC Cash Check_____	Amount $	Receipt Number *(cash/check only)*

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

ELI-COC-10/18 v.3

ANALYTICAL SUMMARY REPORT

March 12, 2025

Bison Engineering
3143 E Lyndale Ave
Helena, MT 59601-6401

Work Order: B25030652 Quote ID: B4795

Project Name: Montana Resources/Greely School DH

Energy Laboratories Inc Billings MT received the following 10 samples for Bison Engineering on 2/14/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25030652-001	Particulate Filter C1109051 TSP 1/6-1/9	01/09/25 00:00	02/14/25	Air	Metals on air filter by ICP/ICPMS Nitric acid-extraction by 40CFR50G
B25030652-002	Particulate Filter C1109052 PM10	01/07/25 00:00	02/14/25	Air	Same As Above
B25030652-003	Particulate Filter C1109053 Lab Blank	12/31/24 14:00	02/14/25	Air	Same As Above
B25030652-004	Particulate Filter C1109054 TSP 1/9 -1/14	01/14/25 00:00	02/14/25	Air	Same As Above
B25030652-005	Particulate Filter C1109055 PM10	01/13/25 00:00	02/14/25	Air	Same As Above
B25030652-006	Particulate Filter C1109056 TSP 1/14 - 1/21	01/21/25 00:00	02/14/25	Air	Same As Above
B25030652-007	Particulate Filter C1109057 PM10	01/19/25 00:00	02/14/25	Air	Same As Above
B25030652-008	Particulate Filter C1109058 TSP 1/21 - 1/28	01/28/25 00:00	02/14/25	Air	Same As Above
B25030652-009	Particulate Filter C1109059 PM10	01/25/25 00:00	02/14/25	Air	Same As Above
B25030652-010	Particulate Filter C1109060 Field Blank	01/28/25 10:17	02/14/25	Air	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1109051 TSP 1/6-1/9
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25030652-001
Collection Date: 01/09/25
DateReceived: 02/14/25
Report Date: 03/12/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/27/25 04:16 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	186	197486
Cadmium	ND	ug/filter		1.0	0.0044	E200.8	02/27/25 04:16 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	186	197486
Copper	0.20	ug/filter	J	1.0	0.16	E200.8	02/22/25 02:16 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	391	197486
Lead	ND	ug/filter		1.0	0.042	E200.8	02/27/25 04:16 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	186	197486
Manganese	ND	ug/filter		1.0	0.18	E200.8	02/22/25 02:16 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	391	197486
Molybdenum	0.020	ug/filter	J	1.0	0.0059	E200.8	02/27/25 04:16 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	186	197486
Zinc	ND	ug/filter		1.0	0.30	E200.8	02/22/25 02:16 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	391	197486

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1109052 PM10
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25030652-002
Collection Date: 01/07/25
DateReceived: 02/14/25
Report Date: 03/12/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/27/25 04:22 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	187	197486
Cadmium	ND	ug/filter		1.0	0.0044	E200.8	02/27/25 04:22 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	187	197486
Copper	0.26	ug/filter	J	1.0	0.16	E200.8	02/22/25 02:22 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	392	197486
Lead	ND	ug/filter		1.0	0.042	E200.8	02/27/25 04:22 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	187	197486
Manganese	ND	ug/filter		1.0	0.18	E200.8	02/22/25 02:22 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	392	197486
Molybdenum	0.011	ug/filter	J	1.0	0.0059	E200.8	02/27/25 04:22 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	187	197486
Zinc	0.37	ug/filter	J	1.0	0.30	E200.8	02/22/25 02:22 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	392	197486

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1109053 Lab Blank
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25030652-003
Collection Date: 12/31/24 14:00
DateReceived: 02/14/25
Report Date: 03/12/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/27/25 04:28 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	188	197486
Cadmium	ND	ug/filter		1.0	0.0044	E200.8	02/27/25 04:28 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	188	197486
Copper	ND	ug/filter		1.0	0.16	E200.8	02/22/25 02:28 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	393	197486
Lead	ND	ug/filter		1.0	0.042	E200.8	02/27/25 04:28 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	188	197486
Manganese	ND	ug/filter		1.0	0.18	E200.8	02/22/25 02:28 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	393	197486
Molybdenum	ND	ug/filter		1.0	0.0059	E200.8	02/27/25 04:28 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	188	197486
Zinc	ND	ug/filter		1.0	0.30	E200.8	02/22/25 02:28 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	393	197486

Report Definitions: RL - Analyte Reporting Limit | MCL - Maximum Contaminant Level | ND - Not detected at the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1109054 TSP 1/9 -1/14
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25030652-004
Collection Date: 01/14/25
DateReceived: 02/14/25
Report Date: 03/12/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/27/25 04:34 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	189	197486
Cadmium	ND	ug/filter		1.0	0.0044	E200.8	02/27/25 04:34 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	189	197486
Copper	0.29	ug/filter	J	1.0	0.16	E200.8	02/22/25 02:34 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	394	197486
Lead	ND	ug/filter		1.0	0.042	E200.8	02/27/25 04:34 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	189	197486
Manganese	ND	ug/filter		1.0	0.18	E200.8	02/22/25 02:34 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	394	197486
Molybdenum	0.025	ug/filter	J	1.0	0.0059	E200.8	02/27/25 04:34 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	189	197486
Zinc	ND	ug/filter		1.0	0.30	E200.8	02/22/25 02:34 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	394	197486

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1109055 PM10
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25030652-005
Collection Date: 01/13/25
DateReceived: 02/14/25
Report Date: 03/12/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/27/25 04:40 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	190	197486
Cadmium	ND	ug/filter		1.0	0.0044	E200.8	02/27/25 04:40 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	190	197486
Copper	0.44	ug/filter	J	1.0	0.16	E200.8	02/22/25 02:40 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	395	197486
Lead	ND	ug/filter		1.0	0.042	E200.8	02/27/25 04:40 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	190	197486
Manganese	ND	ug/filter		1.0	0.18	E200.8	02/22/25 02:40 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	395	197486
Molybdenum	0.020	ug/filter	J	1.0	0.0059	E200.8	02/27/25 04:40 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	190	197486
Zinc	0.42	ug/filter	J	1.0	0.30	E200.8	02/22/25 02:40 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	395	197486

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1109056 TSP 1/14 - 1/21
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25030652-006
Collection Date: 01/21/25
DateReceived: 02/14/25
Report Date: 03/12/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/27/25 04:58 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	193	197486
Cadmium	ND	ug/filter		1.0	0.0044	E200.8	02/27/25 04:58 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	193	197486
Copper	0.81	ug/filter	J	1.0	0.16	E200.8	02/22/25 02:46 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	396	197486
Lead	0.046	ug/filter	J	1.0	0.042	E200.8	02/27/25 04:58 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	193	197486
Manganese	0.20	ug/filter	J	1.0	0.18	E200.8	02/22/25 02:46 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	396	197486
Molybdenum	0.070	ug/filter	J	1.0	0.0059	E200.8	02/27/25 04:58 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	193	197486
Zinc	0.49	ug/filter	J	1.0	0.30	E200.8	02/22/25 02:46 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	396	197486

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1109057 PM10
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25030652-007
Collection Date: 01/19/25
DateReceived: 02/14/25
Report Date: 03/12/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/27/25 05:04 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	194	197486
Cadmium	ND	ug/filter		1.0	0.0044	E200.8	02/27/25 05:04 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	194	197486
Copper	0.29	ug/filter	J	1.0	0.16	E200.8	02/22/25 02:52 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	397	197486
Lead	ND	ug/filter		1.0	0.042	E200.8	02/27/25 05:04 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	194	197486
Manganese	ND	ug/filter		1.0	0.18	E200.8	02/22/25 02:52 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	397	197486
Molybdenum	0.020	ug/filter	J	1.0	0.0059	E200.8	02/27/25 05:04 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	194	197486
Zinc	ND	ug/filter		1.0	0.30	E200.8	02/22/25 02:52 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	397	197486

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1109058 TSP 1/21 - 1/28
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25030652-008
Collection Date: 01/28/25
DateReceived: 02/14/25
Report Date: 03/12/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/27/25 05:10 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	195	197486
Cadmium	0.0053	ug/filter	J	1.0	0.0044	E200.8	02/27/25 05:10 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	195	197486
Copper	1.5	ug/filter		1.0	0.16	E200.8	02/22/25 02:58 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	398	197486
Lead	0.093	ug/filter	J	1.0	0.042	E200.8	02/27/25 05:10 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	195	197486
Manganese	0.36	ug/filter	J	1.0	0.18	E200.8	02/22/25 02:58 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	398	197486
Molybdenum	0.11	ug/filter	J	1.0	0.0059	E200.8	02/27/25 05:10 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	195	197486
Zinc	0.87	ug/filter	J	1.0	0.30	E200.8	02/22/25 02:58 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	398	197486

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1109059 PM10
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25030652-009
Collection Date: 01/25/25
DateReceived: 02/14/25
Report Date: 03/12/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/27/25 05:16 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	196	197486
Cadmium	0.0055	ug/filter	J	1.0	0.0044	E200.8	02/27/25 05:16 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	196	197486
Copper	0.44	ug/filter	J	1.0	0.16	E200.8	02/22/25 03:04 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	399	197486
Lead	0.060	ug/filter	J	1.0	0.042	E200.8	02/27/25 05:16 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	196	197486
Manganese	ND	ug/filter		1.0	0.18	E200.8	02/22/25 03:04 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	399	197486
Molybdenum	0.026	ug/filter	J	1.0	0.0059	E200.8	02/27/25 05:16 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	196	197486
Zinc	0.53	ug/filter	J	1.0	0.30	E200.8	02/27/25 15:20 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	298	197486

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate Filter C1109060 Field Blank
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25030652-010
Collection Date: 01/28/25 10:17
DateReceived: 02/14/25
Report Date: 03/12/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	ND	ug/filter		1.0	0.058	E200.8	02/27/25 05:22 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	197	197486
Cadmium	ND	ug/filter		1.0	0.0044	E200.8	02/27/25 05:22 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	197	197486
Copper	ND	ug/filter		1.0	0.16	E200.8	02/22/25 03:10 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	400	197486
Lead	ND	ug/filter		1.0	0.042	E200.8	02/27/25 05:22 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	197	197486
Manganese	ND	ug/filter		1.0	0.18	E200.8	02/22/25 03:10 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	400	197486
Molybdenum	ND	ug/filter		1.0	0.0059	E200.8	02/27/25 05:22 / ae	02/21/25 09:35	40CFR50	ICPMS208-B_250226A	197	197486
Zinc	ND	ug/filter		1.0	0.30	E200.8	02/22/25 03:10 / jks	02/21/25 09:35	40CFR50	ICPMS208-B_250220A	400	197486

Report Definitions: RL - Analyte Reporting Limit MCL - Maximum Contaminant Level ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25030652 **Report Date:** 03/12/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Analytical Run: ICPMS208-B_250220A	
Lab ID: QCS	3	Initial Calibration Verification Standard								02/21/25 19:45
Copper		0.0521	mg/L	0.010	104	90	110			
Manganese		0.257	mg/L	0.0050	103	90	110			
Zinc		0.0514	mg/L	0.0050	103	90	110			
Lab ID: CCV	3	Continuing Calibration Verification Standard								02/22/25 01:58
Copper		0.0501	mg/L	0.010	100	90	110			
Manganese		0.0494	mg/L	0.0050	99	90	110			
Zinc		0.0496	mg/L	0.0050	99	90	110			
Method: E200.8										Batch: 197486
Lab ID: MB-197486	3	Method Blank				Run: ICPMS208-B_250220A				02/22/25 01:41
Copper		ND	ug/filter	0.2						
Manganese		ND	ug/filter	0.2						
Zinc		ND	ug/filter	0.3						
Lab ID: LCS-197486	3	Laboratory Control Sample				Run: ICPMS208-B_250220A				02/22/25 01:47
Copper		92.7	ug/filter	1.0	93	85	115			
Manganese		453	ug/filter	1.0	91	85	115			
Zinc		90.5	ug/filter	1.0	90	85	115			
Lab ID: LCSD-197486	3	Laboratory Control Sample Duplicate				Run: ICPMS208-B_250220A				02/22/25 01:53
Copper		91.7	ug/filter	1.0	92	85	115			
Manganese		447	ug/filter	1.0	89	85	115			
Zinc		89.8	ug/filter	1.0	90	85	115			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25030652 **Report Date:** 03/12/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Analytical Run: ICPMS208-B_250226A	
Lab ID: QCS	5	Initial Calibration Verification Standard								02/27/25 02:58
Arsenic		0.0503	mg/L	0.0050	101	90	110			
Cadmium		0.0243	mg/L	0.0010	97	90	110			
Lead		0.0488	mg/L	0.0010	98	90	110			
Molybdenum		0.0472	mg/L	0.0050	94	90	110			
Zinc		0.0514	mg/L	0.0050	103	90	110			
Lab ID: CCV	5	Continuing Calibration Verification Standard								02/27/25 03:28
Arsenic		0.0494	mg/L	0.0050	99	90	110			
Cadmium		0.0483	mg/L	0.0010	97	90	110			
Lead		0.0484	mg/L	0.0010	97	90	110			
Molybdenum		0.0477	mg/L	0.0050	95	90	110			
Zinc		0.0493	mg/L	0.0050	99	90	110			
Lab ID: CCV	5	Continuing Calibration Verification Standard								02/27/25 04:46
Arsenic		0.0501	mg/L	0.0050	100	90	110			
Cadmium		0.0493	mg/L	0.0010	99	90	110			
Lead		0.0491	mg/L	0.0010	98	90	110			
Molybdenum		0.0481	mg/L	0.0050	96	90	110			
Zinc		0.0505	mg/L	0.0050	101	90	110			
Lab ID: QCS	5	Initial Calibration Verification Standard								02/27/25 11:51
Arsenic		0.0510	mg/L	0.0050	102	90	110			
Cadmium		0.0256	mg/L	0.0010	103	90	110			
Lead		0.0503	mg/L	0.0010	101	90	110			
Molybdenum		0.0501	mg/L	0.0050	100	90	110			
Zinc		0.0521	mg/L	0.0050	104	90	110			
Lab ID: CCV	5	Continuing Calibration Verification Standard								02/27/25 14:38
Arsenic		0.0496	mg/L	0.0050	99	90	110			
Cadmium		0.0475	mg/L	0.0010	95	90	110			
Lead		0.0475	mg/L	0.0010	95	90	110			
Molybdenum		0.0466	mg/L	0.0050	93	90	110			
Zinc		0.0504	mg/L	0.0050	101	90	110			
Method: E200.8									Batch: 197486	
Lab ID: MB-197486	5	Method Blank				Run: ICPMS208-B_250226A				02/27/25 03:52
Arsenic		ND	ug/filter	0.06						
Cadmium		ND	ug/filter	0.004						
Lead		ND	ug/filter	0.04						
Molybdenum		ND	ug/filter	0.006						
Zinc		ND	ug/filter	0.3						
Lab ID: LCS-197486	5	Laboratory Control Sample				Run: ICPMS208-B_250226A				02/27/25 03:58
Arsenic		98.0	ug/filter	1.0	98	85	115			
Cadmium		48.7	ug/filter	1.0	97	85	115			
Lead		98.3	ug/filter	1.0	98	85	115			
Molybdenum		94.2	ug/filter	1.0	94	85	115			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25030652 **Report Date:** 03/12/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 197486
Lab ID: LCS-197486	5	Laboratory Control Sample				Run: ICPMS208-B_250226A				02/27/25 03:58
Zinc		99.1	ug/filter	5.0	99	85	115			
Lab ID: LCSD-197486	5	Laboratory Control Sample Duplicate				Run: ICPMS208-B_250226A				02/27/25 04:04
Arsenic		97.4	ug/filter	1.0	97	85	115			
Cadmium		47.8	ug/filter	1.0	96	85	115			
Lead		96.2	ug/filter	1.0	96	85	115			
Molybdenum		92.6	ug/filter	1.0	93	85	115			
Zinc		98.6	ug/filter	5.0	99	85	115			
Lab ID: MB-197486		Method Blank				Run: ICPMS208-B_250226A				02/27/25 15:14
Zinc		ND	ug/filter	0.3						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Work Order Receipt Checklist

Bison Engineering

B25030652

Login completed by: Yvonna E. Smith
Date Received: 2/14/2025
Reviewed by: gmccartney
Received by: CMJ
Reviewed Date: 3/11/2025
Carrier name: Hand Deliver

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	-1.3°C Blue Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None

Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
Billings, MT	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
	Florida (Primary NELAP)	E87668
	Idaho	MT00005
	Louisiana	05079
	Montana	CERT0044
	Nebraska	NE-OS-13-04
	Nevada	NV-C24-00250
	North Dakota	R-007
	National Radon Proficiency	109383-RMP
	Oregon	4184
	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
Casper, WY	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
	Montana	CERT0002
	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
Helena, MT	Colorado	MT00945
	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

ENERGY LABORATORIES
Trust our People. Trust our Data.

Chain of Custody & Analytical Request Record

www.energylab.com

Account Information (Billing information)

Company/Name	Bison Engineering, Inc.
Contact	Melissa Young
Phone	(406) 442-5768
Mailing Address	3143 E Lyndale Avenue
City, State, Zip	Helena MT, 59601
Email	myoung@bison-eng.com
Receive Invoice	☐Hard Copy ■Email
Receive Report	☐Hard Copy ☐Email
Purchase Order	HYD223165
Quote	
Bottle Order	

Report Information (if different than Account Information)

Company/Name	Bison Engineering, Inc.
Contact	Don Milmine
Phone	(406) 208-4833
Mailing Address	2751 Enterprise Avenue Suite 2
City, State, Zip	Billings, MT 59102
Email	dmilmine@bison-eng.com
Receive Report	☐Hard Copy ■Email
Special Report/Formats:	☐ LEVEL IV ☐ NELAC ☐ EDD/EDT (contact laboratory) ☐ Other

Comments

Analyze per history

Project Information

Project Name, PWSID, Permit, etc.	Hydrometrics/Kerr-McGee
Sampler Name	Sampler Phone
Sample Origin State	Montana
EPA/State Compliance	■ Yes ☐ No

URANIUM MINING CLIENTS MUST indicate sample type.
☐ NOT Source or Byproduct Material
☐ Source/Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11e.(2) Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

Matrix Codes: A - Air; W - Water; S - Soils/Solids; V - Vegetation; B - Bioassay; O - Other; DW - Drinking Water

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

	Sample Identification (Name, Location, Interval, etc.)	Collection Date	Collection Time	Number of Containers	Matrix (See Codes Above)	Analysis Requested: Arsenic	See Attached	RUSH TAT	ELI LAB ID (Laboratory Use Only)
1	Particulate filter C1667952 PM10	1/1/25	24 hr Composite	1	on Teflon filter	x			B25020805 YG 03/11/25
2	Particulate filter C1667953 TSP	1/1/25	24 hr Composite	1	on nylon filter	x			logged separately
3	Particulate filter C1667954 PM10	1/7/25	24 hr Composite	1	on nylon filter	x			
4	Particulate filter C1667955 TSP	1/7/25	24 hr Composite	1	on nylon filter	x			
5	Particulate filter C1667956 PM10	1/13/25	24 hr Composite	1	on nylon filter	x			
6	Particulate filter C1667997 TSP	1/13/25	24 hr Composite	1	on nylon filter	x			
7	Particulate filter C1667998 Field Blank	1/17/25	0916	1	on nylon filter	x			
8	Particulate filter C1527198 Lab Blank	12/20/24	1430	1	on nylon filter	x			
9	Particulate filter C1667999 PM10	1/19/25	24 hr Composite	1	on nylon filter	x			
10	Particulate filter C1668000 TSP	1/19/25	24 hr Composite	1	on nylon filter	x			

Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	Don Milmine	2/14/25 1441	Don V. Milmine			
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
				Crystal Jones	02/14/25 1441	

LABORATORY USE ONLY

Shipped By	Cooler ID(s)	Custody Seals Y N C B	Intact Y N	Receipt Temp °C	Temp Blank Y N	On Ice Y N	Payment Type CC Cash Check	Amount $	Receipt Number (cash/check only)

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

ELI-COC-10/18 v.3

Chain of Custody & Analytical Request Record

ENERGY LABORATORIES — Trust our People. Trust our Data.

www.energylab.com

Account Information (Billing information)

Company/Name	Bison Engineering, Inc.
Contact	Melissa Young
Phone	(406) 442-5768
Mailing Address	3143 E Lyndale Avenue
City, State, Zip	Helena MT, 59601
Email	myoung@bison-eng.com
Receive Invoice	☐ Hard Copy ■ Email
Receive Report	☐ Hard Copy ☐ Email
Purchase Order	MTR223018
Quote	
Bottle Order	

Report Information (if different than Account Information)

Company/Name	Bison Engineering, Inc.
Contact	Don Milmine
Phone	(406) 208-4833
Mailing Address	2751 Enterprise Avenue Suite 2
City, State, Zip	Billings, MT 59102
Email	dmilmine@bison-eng.com
Receive Report	☐ Hard Copy ■ Email
Special Report/Formats:	☐ LEVEL IV ☐ NELAC ☐ EDD/EDT (contact laboratory) ☐ Other

Comments

Analyze per history

Project Information

Project Name, PWSID, Permit, etc.	Montana Resources/Greely School PW
Sampler Name	Sampler Phone
Sample Origin State	Montana
EPA/State Compliance	■ Yes ☐ No

URANIUM MINING CLIENTS MUST indicate sample type.
☐ NOT Source or Byproduct Material
☐ Source/Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11e.(2) Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

Matrix Codes: A - Air; W - Water; S - Soils/Solids; V - Vegetation; B - Bioassay; O - Other; DW - Drinking Water

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

	Sample Identification (Name, Location, Interval, etc.)	Collection Date	Collection Time	Number of Containers	Matrix (See Codes Above)	Arsenic	Cadmium	Copper	Lead	Manganese	Molybdenum	Zinc			See Attached	RUSH TAT	ELI LAB ID (Laboratory Use Only)
1	Particulate filter C1853161 Field Blank	1/8/25	1505	1	on teflon filter	x	x	x	x	x	x	x					B2502808
2	Particulate filter C1853162 TSP Walnut ST	1/13/25	24 hr composite	1	on teflon filter	x	x	x	x	x	x	x					Logged separately ↑ YES 03/4/25
3	Particulate filter C1853163 TSP Pine ST	1/13/25	24 hr composite	1	on teflon filter	x	x	x	x	x	x	x					
4	Particulate filter C1853164 Lab Blank	12/30/24	1800	1	on teflon filter	x	x	x	x	x	x	x					
5	Particulate filter C1853165 TSP Walnut ST	1/19/25	24 hr composite	1	on teflon filter	x	x	x	x	x	x	x					
6	Particulate filter C1853166 TSP Pine ST	1/19/25	24 hr composite	1	on teflon filter	x	x	x	x	x	x	x					
7	Particulate filter C1853167 TSP Pine ST	1/25/25	24 hr composite	1	on teflon filter	x	x	x	x	x	x	x					
8	Particulate filter C1853168 TSP Walnut ST	1/25/25	24 hr composite	1	on teflon filter	x	x	x	x	x	x	x					
9	Particulate filter C1853169 TSP Pine ST	1/31/25	24 hr composite	1	on teflon filter	x	x	x	x	x	x	x					
10	Particulate filter C1853170 TSP Walnut ST	1/31/25	24 hr composite	1	on teflon filter	x	x	x	x	x	x	x					

Custody Record MUST be signed	Relinquished by (print): Don Milmine	Date/Time: 2/14/25 1441	Signature: Don V. Milmine	Received by (print)	Date/Time	Signature
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print): Crystal Jones	Date/Time: 02/14/25 1441	Signature

LABORATORY USE ONLY

Shipped By	Cooler ID(s)	Custody Seals Y N C B	Intact Y N	Receipt Temp °C	Temp Blank Y N	On Ice Y N	Payment Type CC Cash Check	Amount $	Receipt Number (cash/check only)

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ELI-COC-10/18 v.3

Chain of Custody & Analytical Request Record

ENERGY LABORATORIES — Trust our People. Trust our Data.

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Account Information *(Billing information)*

Company/Name	Bison Engineering, Inc.
Contact	Shelley Argott-Brown
Phone	(406) 442-5768
Mailing Address	3143 E Lyndale Avenue
City, State, Zip	Helena MT, 59601
Email	sbrown-argott@bison-eng.com
Receive Invoice	☐Hard Copy ☒Email
Receive Report	☐Hard Copy ☒Email
Purchase Order	MTR224018
Quote	
Bottle Order	

Report Information *(if different than Account Information)*

Company/Name	Bison Engineering, Inc.
Contact	Don Milmine
Phone	(406) 208-4833
Mailing Address	2751 Enterprise Avenue Suite 2
City, State, Zip	Billings, MT 59102
Email	dmilmine@bison-eng.com
Receive Report	☐Hard Copy ☒Email
Special Report/Formats:	☐ LEVEL IV ☐ NELAC ☐ EDD/EDT *(contact laboratory)* ☐ Other

Comments

Analyze per history

Project Information

Project Name, PWSID, Permit, etc.	Montana Resources/Greely School DH
Sampler Name	Sampler Phone
Sample Origin State	Montana
EPA/State Compliance	☒ Yes ☐ No

URANIUM MINING CLIENTS MUST indicate sample type.
☐ NOT Source or Byproduct Material
☐ Source/Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11e.(2) Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

Matrix Codes
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Other
DW - Drinking Water

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

	Sample Identification (Name, Location, Interval, etc.)	Collection Date	Collection Time	Number of Containers	Matrix (See Codes Above)	Arsenic	Cadmium	Copper	Lead	Manganese	Molybdenum	Zinc			See Attached	RUSH TAT	ELI LAB ID (Laboratory Use Only)
1	Particulate filter C1109051 TSP 1/6 - 1/9	1/6 → 1/9	continuous	1	on teflon filter	X	X	X	X	X	X	X					B25020808-001
2	Particulate filter C1109052 PM10	1/7/25	24 hr composite	1	on teflon filter	X	X	X	X	X	X	X					B25030052-002
3	Particulate filter C1109053 Lab Blank	12/31/24	1400	1	on teflon filter	X	X	X	X	X	X	X					-003
4	Particulate filter C1109054 TSP 1/9 - 1/14	1/9 → 1/14	continuous	1	on teflon filter	X	X	X	X	X	X	X					-004
5	Particulate filter C1109055 PM10	1/13/25	24 hr composite	1	on teflon filter	X	X	X	X	X	X	X					-005
6	Particulate filter C1109056 TSP 1/14 - 1/21	1/14 → 1/21	continuous	1	on teflon filter	X	X	X	X	X	X	X					-006
7	Particulate filter C1109057 PM10	1/19/25	24 hr composite	1	on teflon filter	X	X	X	X	X	X	X					-007
8	Particulate filter C1109058 TSP 1/21 - 1/28	1/21 → 1/28	continuous	1	on teflon filter	X	X	X	X	X	X	X					-008
9	Particulate filter C1109059 PM10	1/25/25	24 hr composite	1	on teflon filter	X	X	X	X	X	X	X					-009
10	Particulate filter C1109060 Field Blank	1/28/25	1017	1	on teflon filter	X	X	X	X	X	X	X					-010

03/11/25 YB

Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	Don Milmine 1441	2/14/25	Don V. Milmine			
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
				[illegible]	02/14/25 1441	

LABORATORY USE ONLY

Shipped By	Cooler ID(s)	Custody Seals Y N C B	Intact Y N	Receipt Temp °C	Temp Blank Y N	On Ice Y N	Payment Type CC Cash Check	Amount $	Receipt Number *(cash/check only)*

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

ELI-COC-10/18 v.3

ANALYTICAL SUMMARY REPORT

March 13, 2025

Bison Engineering
3143 E Lyndale Ave
Helena, MT 59601-6401

Work Order: B25030188 Quote ID: B4795

Project Name: Montana Resources/Greely School DH

Energy Laboratories Inc Billings MT received the following 10 samples for Bison Engineering on 3/4/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25030188-001	Particulate filter C1109085 TSP 1/28-2/3	02/03/25 0:00	03/04/25	Filter	Metals on air filter by ICP/ICPMS Nitric acid-extraction by 40CFR50G
B25030188-002	Particulate filter C1109086 PM10	01/31/25 0:00	03/04/25	Filter	Same As Above
B25030188-003	Particulate filter C1109087 Lab Blank	01/27/25 8:00	03/04/25	Filter	Same As Above
B25030188-004	Particulate filter C1109088 TSP 2/3-2/11	02/11/25 0:00	03/04/25	Filter	Same As Above
B25030188-005	Particulate filter C1109089 PM10	02/06/25 0:00	03/04/25	Filter	Same As Above
B25030188-006	Particulate filter C1109090 TSP 2/11-2/14	02/14/25 0:00	03/04/25	Filter	Same As Above
B25030188-007	Particulate filter C1109091 PM10	02/12/25 0:00	03/04/25	Filter	Same As Above
B25030188-008	Particulate filter C1109092 TSP 2/14-2/19	02/19/25 0:00	03/04/25	Filter	Same As Above
B25030188-009	Particulate filter C1109093 PM10	02/18/25 0:00	03/04/25	Filter	Same As Above
B25030188-010	Particulate filter C1109094 Field Blank	02/19/25 10:56	03/04/25	Filter	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.

CLIENT: Bison Engineering
Project: Montana Resources/Greely School DH
Work Order: B25030188

Report Date: 03/13/25

CASE NARRATIVE

Per client request, results are based on the final concentration using 25 mL of extraction solution per filter.

All "J" qualified analyte concentrations are below the laboratory minimum recommended Reporting Limit (RL) and above the lowest method detection limit (MDL)/Limit of Detection (LOD). Inorganic analytes reported with "J" qualifiers should be verified against the corresponding method blank and continuing calibration blanks. Inorganic "J" quantitations near the MDL/LOD may be suspect due to possible method background levels, sample matrix effects, and/or daily variability in instrument signal-to-noise levels.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Project: Montana Resources/Greely School DH
Lab ID: B25030188-001
Client Sample ID: Particulate filter C1109085 TSP 1/28-2/3

Report Date: 03/13/25
Collection Date: 02/03/25
DateReceived: 03/04/25
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS IN AIR							
Arsenic	ND	ug/filter		1.0		E200.8	03/11/25 06:35 / aem
Cadmium	ND	ug/filter		1.0		E200.8	03/11/25 06:35 / aem
Copper	0.51	ug/filter	J	1.0		E200.8	03/11/25 23:26 / aem
Lead	0.051	ug/filter	J	1.0		E200.8	03/11/25 06:35 / aem
Manganese	ND	ug/filter		1.0		E200.8	03/11/25 06:35 / aem
Molybdenum	0.013	ug/filter	J	1.0		E200.8	03/11/25 06:35 / aem
Zinc	0.45	ug/filter	J	1.0		E200.8	03/11/25 06:35 / aem

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
J - Estimated value - analyte was present but less than the Reporting Limit (RL)
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Project: Montana Resources/Greely School DH
Lab ID: B25030188-002
Client Sample ID: Particulate filter C1109086 PM10

Report Date: 03/13/25
Collection Date: 01/31/25
DateReceived: 03/04/25
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS IN AIR							
Arsenic	ND	ug/filter		1.0		E200.8	03/11/25 06:41 / aem
Cadmium	ND	ug/filter		1.0		E200.8	03/12/25 12:59 / aem
Copper	0.51	ug/filter	J	1.0		E200.8	03/11/25 23:44 / aem
Lead	0.061	ug/filter	J	1.0		E200.8	03/11/25 06:41 / aem
Manganese	0.25	ug/filter	J	1.0		E200.8	03/11/25 06:41 / aem
Molybdenum	0.024	ug/filter	J	1.0		E200.8	03/11/25 06:41 / aem
Zinc	0.64	ug/filter	J	1.0		E200.8	03/11/25 06:41 / aem

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
J - Estimated value - analyte was present but less than the Reporting Limit (RL)
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Project: Montana Resources/Greely School DH
Lab ID: B25030188-003
Client Sample ID: Particulate filter C1109087 Lab Blank

Report Date: 03/13/25
Collection Date: 01/27/25 08:00
DateReceived: 03/04/25
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS IN AIR							
Arsenic	ND	ug/filter		1.0		E200.8	03/11/25 06:47 / aem
Cadmium	ND	ug/filter		1.0		E200.8	03/11/25 06:47 / aem
Copper	ND	ug/filter		1.0		E200.8	03/11/25 06:47 / aem
Lead	ND	ug/filter		1.0		E200.8	03/11/25 06:47 / aem
Manganese	ND	ug/filter		1.0		E200.8	03/11/25 06:47 / aem
Molybdenum	ND	ug/filter		1.0		E200.8	03/11/25 06:47 / aem
Zinc	ND	ug/filter		1.0		E200.8	03/11/25 06:47 / aem

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Project: Montana Resources/Greely School DH
Lab ID: B25030188-004
Client Sample ID: Particulate filter C1109088 TSP 2/3-2/11

Report Date: 03/13/25
Collection Date: 02/11/25
DateReceived: 03/04/25
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS IN AIR							
Arsenic	ND	ug/filter		1.0		E200.8	03/11/25 06:53 / aem
Cadmium	ND	ug/filter		1.0		E200.8	03/11/25 06:53 / aem
Copper	0.59	ug/filter	J	1.0		E200.8	03/11/25 23:50 / aem
Lead	0.051	ug/filter	J	1.0		E200.8	03/11/25 06:53 / aem
Manganese	0.22	ug/filter	J	1.0		E200.8	03/11/25 06:53 / aem
Molybdenum	0.030	ug/filter	J	1.0		E200.8	03/11/25 06:53 / aem
Zinc	0.56	ug/filter	J	1.0		E200.8	03/11/25 06:53 / aem

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
J - Estimated value - analyte was present but less than the Reporting Limit (RL)
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Project: Montana Resources/Greely School DH
Lab ID: B25030188-005
Client Sample ID: Particulate filter C1109089 PM10

Report Date: 03/13/25
Collection Date: 02/06/25
DateReceived: 03/04/25
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS IN AIR							
Arsenic	ND	ug/filter		1.0		E200.8	03/11/25 06:59 / aem
Cadmium	ND	ug/filter		1.0		E200.8	03/11/25 06:59 / aem
Copper	0.35	ug/filter	J	1.0		E200.8	03/11/25 23:56 / aem
Lead	ND	ug/filter		1.0		E200.8	03/11/25 06:59 / aem
Manganese	ND	ug/filter		1.0		E200.8	03/11/25 06:59 / aem
Molybdenum	0.013	ug/filter	J	1.0		E200.8	03/11/25 06:59 / aem
Zinc	ND	ug/filter		1.0		E200.8	03/11/25 06:59 / aem

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
J - Estimated value - analyte was present but less than the Reporting Limit (RL)
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Project: Montana Resources/Greely School DH
Lab ID: B25030188-006
Client Sample ID: Particulate filter C1109090 TSP 2/11-2/14

Report Date: 03/13/25
Collection Date: 02/14/25
DateReceived: 03/04/25
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS IN AIR							
Arsenic	ND	ug/filter		1.0		E200.8	03/11/25 07:05 / aem
Cadmium	ND	ug/filter		1.0		E200.8	03/11/25 07:05 / aem
Copper	0.23	ug/filter	J	1.0		E200.8	03/12/25 00:01 / aem
Lead	ND	ug/filter		1.0		E200.8	03/11/25 07:05 / aem
Manganese	ND	ug/filter		1.0		E200.8	03/11/25 07:05 / aem
Molybdenum	0.0078	ug/filter	J	1.0		E200.8	03/11/25 07:05 / aem
Zinc	ND	ug/filter		1.0		E200.8	03/11/25 07:05 / aem

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
J - Estimated value - analyte was present but less than the Reporting Limit (RL)
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Project: Montana Resources/Greely School DH
Lab ID: B25030188-007
Client Sample ID: Particulate filter C1109091 PM10

Report Date: 03/13/25
Collection Date: 02/12/25
DateReceived: 03/04/25
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS IN AIR							
Arsenic	ND	ug/filter		1.0		E200.8	03/11/25 07:11 / aem
Cadmium	ND	ug/filter		1.0		E200.8	03/12/25 13:05 / aem
Copper	0.19	ug/filter	J	1.0		E200.8	03/12/25 00:07 / aem
Lead	ND	ug/filter		1.0		E200.8	03/11/25 07:11 / aem
Manganese	ND	ug/filter		1.0		E200.8	03/11/25 07:11 / aem
Molybdenum	0.011	ug/filter	J	1.0		E200.8	03/11/25 07:11 / aem
Zinc	0.36	ug/filter	J	1.0		E200.8	03/11/25 07:11 / aem

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
J - Estimated value - analyte was present but less than the Reporting Limit (RL)
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Project: Montana Resources/Greely School DH
Lab ID: B25030188-008
Client Sample ID: Particulate filter C1109092 TSP 2/14-2/19

Report Date: 03/13/25
Collection Date: 02/19/25
DateReceived: 03/04/25
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS IN AIR							
Arsenic	ND	ug/filter		1.0		E200.8	03/11/25 07:17 / aem
Cadmium	ND	ug/filter		1.0		E200.8	03/11/25 07:17 / aem
Copper	0.23	ug/filter	J	1.0		E200.8	03/12/25 00:13 / aem
Lead	ND	ug/filter		1.0		E200.8	03/11/25 07:17 / aem
Manganese	ND	ug/filter		1.0		E200.8	03/11/25 07:17 / aem
Molybdenum	0.020	ug/filter	J	1.0		E200.8	03/11/25 07:17 / aem
Zinc	ND	ug/filter		1.0		E200.8	03/11/25 07:17 / aem

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
J - Estimated value - analyte was present but less than the Reporting Limit (RL)
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Project: Montana Resources/Greely School DH
Lab ID: B25030188-009
Client Sample ID: Particulate filter C1109093 PM10

Report Date: 03/13/25
Collection Date: 02/18/25
DateReceived: 03/04/25
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS IN AIR							
Arsenic	ND	ug/filter		1.0		E200.8	03/11/25 07:23 / aem
Cadmium	ND	ug/filter		1.0		E200.8	03/11/25 07:23 / aem
Copper	ND	ug/filter		1.0		E200.8	03/11/25 07:23 / aem
Lead	ND	ug/filter		1.0		E200.8	03/11/25 07:23 / aem
Manganese	ND	ug/filter		1.0		E200.8	03/11/25 07:23 / aem
Molybdenum	0.017	ug/filter	J	1.0		E200.8	03/12/25 00:19 / aem
Zinc	0.42	ug/filter	J	1.0		E200.8	03/12/25 13:10 / aem

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
J - Estimated value - analyte was present but less than the Reporting Limit (RL)
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Project: Montana Resources/Greely School DH
Lab ID: B25030188-010
Client Sample ID: Particulate filter C1109094 Field Blank

Report Date: 03/13/25
Collection Date: 02/19/25 10:56
DateReceived: 03/04/25
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS IN AIR							
Arsenic	ND	ug/filter		1.0		E200.8	03/11/25 07:29 / aem
Cadmium	ND	ug/filter		1.0		E200.8	03/11/25 07:29 / aem
Copper	ND	ug/filter		1.0		E200.8	03/11/25 07:29 / aem
Lead	ND	ug/filter		1.0		E200.8	03/11/25 07:29 / aem
Manganese	ND	ug/filter		1.0		E200.8	03/11/25 07:29 / aem
Molybdenum	ND	ug/filter		1.0		E200.8	03/11/25 07:29 / aem
Zinc	ND	ug/filter		1.0		E200.8	03/11/25 07:29 / aem

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25030188 **Report Date:** 03/13/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Analytical Run: ICPMS207-B_250311A	
Lab ID: QCS	4	Initial Calibration Verification Standard								03/11/25 18:10
Cadmium		0.0257	mg/L	0.0010	103	90	110			
Copper		0.0528	mg/L	0.010	106	90	110			
Molybdenum		0.0496	mg/L	0.0050	99	90	110			
Zinc		0.0520	mg/L	0.0050	104	90	110			
Lab ID: CCV	4	Continuing Calibration Verification Standard								03/11/25 22:16
Cadmium		0.0481	mg/L	0.0010	96	90	110			
Copper		0.0484	mg/L	0.010	97	90	110			
Molybdenum		0.0477	mg/L	0.0050	95	90	110			
Zinc		0.0484	mg/L	0.0050	97	90	110			
Lab ID: CCV	4	Continuing Calibration Verification Standard								03/11/25 23:32
Cadmium		0.0484	mg/L	0.0010	97	90	110			
Copper		0.0489	mg/L	0.010	98	90	110			
Molybdenum		0.0484	mg/L	0.0050	97	90	110			
Zinc		0.0478	mg/L	0.0050	96	90	110			
Lab ID: QCS	4	Initial Calibration Verification Standard								03/12/25 10:09
Cadmium		0.0254	mg/L	0.0010	102	90	110			
Copper		0.0518	mg/L	0.010	104	90	110			
Molybdenum		0.0488	mg/L	0.0050	98	90	110			
Zinc		0.0515	mg/L	0.0050	103	90	110			
Lab ID: CCV	4	Continuing Calibration Verification Standard								03/12/25 12:18
Cadmium		0.0477	mg/L	0.0010	95	90	110			
Copper		0.0484	mg/L	0.010	97	90	110			
Molybdenum		0.0468	mg/L	0.0050	94	90	110			
Zinc		0.0482	mg/L	0.0050	96	90	110			
Method: E200.8										Batch: 197816
Lab ID: MB-197816	4	Method Blank				Run: ICPMS207-B_250311A				03/11/25 23:03
Cadmium		ND	ug/filter	0.006						
Copper		ND	ug/filter	0.2						
Molybdenum		ND	ug/filter	0.005						
Zinc		ND	ug/filter	0.3						
Lab ID: MB-197816	4	Method Blank				Run: ICPMS207-B_250311A				03/12/25 12:53
Cadmium		ND	ug/filter	0.006						
Copper		ND	ug/filter	0.2						
Molybdenum		ND	ug/filter	0.005						
Zinc		ND	ug/filter	0.3						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25030188 **Report Date:** 03/13/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Analytical Run: ICPMS208-B_250310A	
Lab ID: QCS	7	Initial Calibration Verification Standard								03/11/25 03:18
Arsenic		0.0515	mg/L	0.0050	103	90	110			
Cadmium		0.0257	mg/L	0.0010	103	90	110			
Copper		0.0530	mg/L	0.010	106	90	110			
Lead		0.0516	mg/L	0.0010	103	90	110			
Manganese		0.260	mg/L	0.0050	104	90	110			
Molybdenum		0.0500	mg/L	0.0050	100	90	110			
Zinc		0.0520	mg/L	0.0050	104	90	110			
Lab ID: CCV	7	Continuing Calibration Verification Standard								03/11/25 06:23
Arsenic		0.0491	mg/L	0.0050	98	90	110			
Cadmium		0.0485	mg/L	0.0010	97	90	110			
Copper		0.0507	mg/L	0.010	101	90	110			
Lead		0.0488	mg/L	0.0010	98	90	110			
Manganese		0.0486	mg/L	0.0050	97	90	110			
Molybdenum		0.0475	mg/L	0.0050	95	90	110			
Zinc		0.0491	mg/L	0.0050	98	90	110			
Method: E200.8										Batch: 197816
Lab ID: MB-197816	7	Method Blank				Run: ICPMS208-B_250310A				03/11/25 04:48
Arsenic		ND	ug/filter	0.06						
Cadmium		ND	ug/filter	0.004						
Copper		ND	ug/filter	0.2						
Lead		ND	ug/filter	0.04						
Manganese		ND	ug/filter	0.2						
Molybdenum		ND	ug/filter	0.006						
Zinc		ND	ug/filter	0.3						
Lab ID: LCS-197816	7	Laboratory Control Sample				Run: ICPMS208-B_250310A				03/11/25 04:54
Arsenic		99.5	ug/filter	1.0	100	85	115			
Cadmium		49.7	ug/filter	1.0	99	85	115			
Copper		102	ug/filter	5.0	102	85	115			
Lead		101	ug/filter	1.0	101	85	115			
Manganese		495	ug/filter	5.0	99	85	115			
Molybdenum		96.2	ug/filter	1.0	96	85	115			
Zinc		101	ug/filter	5.0	101	85	115			
Lab ID: LCSD-197816	7	Laboratory Control Sample Duplicate				Run: ICPMS208-B_250310A				03/11/25 05:00
Arsenic		99.8	ug/filter	1.0	100	85	115			
Cadmium		50.2	ug/filter	1.0	100	85	115			
Copper		102	ug/filter	5.0	102	85	115			
Lead		99.6	ug/filter	1.0	100	85	115			
Manganese		497	ug/filter	5.0	99	85	115			
Molybdenum		98.0	ug/filter	1.0	98	85	115			
Zinc		102	ug/filter	5.0	102	85	115			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Work Order Receipt Checklist

Bison Engineering

B25030188

Login completed by: Danielle N. Harris
Date Received: 3/4/2025

Reviewed by: lleprowse
Received by: KLP

Reviewed Date: 3/11/2025
Carrier name: Hand Deliver

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	3.3°C Blue Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None

Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
Billings, MT	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
	Florida (Primary NELAP)	E87668
	Idaho	MT00005
	Louisiana	05079
	Montana	CERT0044
	Nebraska	NE-OS-13-04
	Nevada	NV-C24-00250
	North Dakota	R-007
	National Radon Proficiency	109383-RMP
	Oregon	4184
	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
Casper, WY	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
	Montana	CERT0002
	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
Helena, MT	Colorado	MT00945
	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

Chain of Custody & Analytical Request Record

ENERGY LABORATORIES — Trust our People. Trust our Data.

www.energylab.com

Account Information *(Billing information)*

Company/Name	Bison Engineering, Inc.
Contact	Melissa Young
Phone	(406) 442-5768
Mailing Address	3143 E Lyndale Avenue
City, State, Zip	Helena MT, 59601
Email	myoung@bison-eng.com
Receive Invoice	☐ Hard Copy ☑ Email — Receive Report ☐ Hard Copy ☐ Email
Purchase Order	MTR223018
Quote	
Bottle Order	

Report Information *(if different than Account Information)*

Company/Name	Bison Engineering, Inc.
Contact	Don Milmine
Phone	(406) 208-4833
Mailing Address	2751 Enterprise Avenue Suite 2
City, State, Zip	Billings, MT 59102
Email	dmilmine@bison-eng.com
Receive Report	☐ Hard Copy ☑ Email
Special Report/Formats:	☐ LEVEL IV ☐ NELAC ☐ EDD/EDT *(contact laboratory)* ☐ Other_____

Comments

Analyze per history

Project Information

Project Name, PWSID, Permit, etc.	Momtana Resources/Greely School DH
Sampler Name	Sampler Phone
Sample Origin State	Montana — EPA/State Compliance ☑ Yes ☐ No

URANIUM MINING CLIENTS MUST indicate sample type.
☐ NOT Source or Byproduct Material
☐ Source/Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11e.(2) Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

Matrix Codes
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Other
DW - Drinking Water

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

	Sample Identification *(Name, Location, Interval, etc.)*	Collection Date	Collection Time	Number of Containers	Matrix *(See Codes Above)*	Arsenic	Cadmium	Copper	Lead	Manganese	Molybdenum	Zinc			See Attached	RUSH TAT	ELI LAB ID *Laboratory Use Only*
1	Particulate filter C1109085 TSP 1/28 - 2/3	1/28 - 2/3	continuous	1	on Teflon filter	x	x	x	x	x	x	x					B25030188
2	Particulate filter C1109086 PM10	1/31/25	24-hr composite	1	on Teflon filter	x	x	x	x	x	x	x					
3	Particulate filter C1109087 Lab Blank	1/27/25	0800	1	on Teflon filter	x	x	x	x	x	x	x					
4	Particulate filter C1109088 TSP 2/3 -2/11	2/3 - 2/11	continuous	1	on Teflon filter	x	x	x	x	x	x	x					
5	Particulate filter C1109089 PM10	2/6/25	24 hr composite	1	on Teflon filter	x	x	x	x	x	x	x					
6	Particulate filter C1109090 TSP 2/11 - 2/14	2/11 - 2/14	continuous	1	on Teflon filter	x	x	x	x	x	x	x					
7	Particulate filter C1109091 PM10	2/12/25	24hr composite	1	on Teflon filter	x	x	x	x	x	x	x					
8	Particulate filter C1109092 TSP 2/14 - 2/19	2/14 - 2/19	continuous	1	on Teflon filter	x	x	x	x	x	x	x					
9	Particulate filter C1109093 PM10	2/18/25	24 hr composite	1	on Teflon filter	x	x	x	x	x	x	x					
10	Particulate filter C1109094 Field blank	2/19/25	1056	1	on Teflon filter	x	x	x	x	x	x	x					

Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	Don Milmine	3/4/25 1606	Don V. Milmine			
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
				Kyrie Peck	03-04-25 1606	

LABORATORY USE ONLY

Shipped By	Cooler ID(s)	Custody Seals Y N C B	Intact Y N	Receipt Temp °C	Temp Blank Y N	On Ice Y N	Payment Type CC Cash Check_____	Amount $	Receipt Number *(cash/check only)*

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

ELI-COC-10/18 v.3

ANALYTICAL SUMMARY REPORT

April 18, 2025

Bison Engineering
3143 E Lyndale Ave
Helena, MT 59601-6401

Work Order: B25040355 Quote ID: B4795

Project Name: Montana Resources/ Greely School DH

Energy Laboratories Inc Billings MT received the following 10 samples for Bison Engineering on 4/3/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25040355-001	Particulate filter C1109076 TSP 2/19-2/25	02/25/25 00:00	04/03/25	Air	Metals on air filter by ICP/ICPMS Nitric acid-extraction by 40CFR50G
B25040355-002	Particulate filter C1109077 PM10	02/24/25 00:00	04/03/25	Air	Same As Above
B25040355-003	Particulate filter C1109078 TSP 2/25-3/5	03/05/25 00:00	04/03/25	Air	Same As Above
B25040355-004	Particulate filter C1109079 Lab Blank	02/13/25 16:40	04/03/25	Air	Same As Above
B25040355-005	Particulate filter C1109080 PM10	03/02/25 00:00	04/03/25	Air	Same As Above
B25040355-006	Particulate filter C1109081 TSP 3/05-3/12	03/12/25 00:00	04/03/25	Air	Same As Above
B25040355-007	Particulate filter C1109082 PM10	03/08/25 00:00	04/03/25	Air	Same As Above
B25040355-008	Particulate filter C1109083 TSP 3-12-3/18	03/18/25 00:00	04/03/25	Air	Same As Above
B25040355-009	Particulate filter C1109084 PM10	03/14/25 00:00	04/03/25	Air	Same As Above
B25040355-010	Particulate filter C1109100 Field Blank	03/18/25 10:16	04/03/25	Air	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1109076 TSP 2/19-2/25
Project: Montana Resources/ Greely School DH
Matrix: Air

Lab ID: B25040355-001
Collection Date: 02/25/25
DateReceived: 04/03/25
Report Date: 04/18/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.067	ug/filter	J	1.0	0.058	E200.8	04/11/25 23:01 / jks	04/04/25 12:10	40CFR50	ICPMS208-B_250411A	33	198638
Cadmium	ND	ug/filter		1.0	0.0044	E200.8	04/08/25 05:26 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	174	198638
Copper	0.47	ug/filter	J	1.0	0.16	E200.8	04/08/25 05:26 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	174	198638
Lead	ND	ug/filter		1.0	0.042	E200.8	04/08/25 05:26 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	174	198638
Manganese	ND	ug/filter		1.0	0.18	E200.8	04/08/25 05:26 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	174	198638
Molybdenum	0.030	ug/filter	J	1.0	0.0059	E200.8	04/08/25 05:26 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	174	198638
Zinc	ND	ug/filter		1.0	0.30	E200.8	04/08/25 05:26 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	174	198638

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1109077 PM10
Project: Montana Resources/ Greely School DH
Matrix: Air

Lab ID: B25040355-002
Collection Date: 02/24/25
DateReceived: 04/03/25
Report Date: 04/18/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.077	ug/filter	J	1.0	0.058	E200.8	04/11/25 23:07 / jks	04/04/25 12:10	40CFR50	ICPMS208-B_250411A	34	198638
Cadmium	ND	ug/filter		1.0	0.0044	E200.8	04/08/25 05:32 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	175	198638
Copper	2.8	ug/filter		1.0	0.16	E200.8	04/08/25 05:32 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	175	198638
Lead	0.076	ug/filter	J	1.0	0.042	E200.8	04/08/25 05:32 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	175	198638
Manganese	ND	ug/filter		1.0	0.18	E200.8	04/08/25 05:32 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	175	198638
Molybdenum	0.052	ug/filter	J	1.0	0.0059	E200.8	04/08/25 05:32 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	175	198638
Zinc	0.47	ug/filter	J	1.0	0.30	E200.8	04/08/25 05:32 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	175	198638

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1109078 TSP 2/25-3/5
Project: Montana Resources/ Greely School DH
Matrix: Air

Lab ID: B25040355-003
Collection Date: 03/05/25
DateReceived: 04/03/25
Report Date: 04/18/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.079	ug/filter	J	1.0	0.058	E200.8	04/11/25 23:13 / jks	04/04/25 12:10	40CFR50	ICPMS208-B_250411A	35	198638
Cadmium	ND	ug/filter		1.0	0.0044	E200.8	04/08/25 05:38 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	176	198638
Copper	0.89	ug/filter	J	1.0	0.16	E200.8	04/08/25 05:38 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	176	198638
Lead	0.059	ug/filter	J	1.0	0.042	E200.8	04/08/25 05:38 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	176	198638
Manganese	0.24	ug/filter	J	1.0	0.18	E200.8	04/08/25 05:38 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	176	198638
Molybdenum	0.061	ug/filter	J	1.0	0.0059	E200.8	04/08/25 05:38 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	176	198638
Zinc	0.57	ug/filter	J	1.0	0.30	E200.8	04/08/25 05:38 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	176	198638

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1109079 Lab Blank
Project: Montana Resources/ Greely School DH
Matrix: Air

Lab ID: B25040355-004
Collection Date: 02/13/25 16:40
DateReceived: 04/03/25
Report Date: 04/18/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.075	ug/filter	J	1.0	0.058	E200.8	04/11/25 23:19 / jks	04/04/25 12:10	40CFR50	ICPMS208-B_250411A	36	198638
Cadmium	ND	ug/filter		1.0	0.0044	E200.8	04/08/25 05:44 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	177	198638
Copper	ND	ug/filter		1.0	0.16	E200.8	04/08/25 05:44 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	177	198638
Lead	ND	ug/filter		1.0	0.042	E200.8	04/08/25 05:44 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	177	198638
Manganese	ND	ug/filter		1.0	0.18	E200.8	04/08/25 05:44 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	177	198638
Molybdenum	ND	ug/filter		1.0	0.0059	E200.8	04/08/25 05:44 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	177	198638
Zinc	ND	ug/filter		1.0	0.30	E200.8	04/08/25 05:44 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	177	198638

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1109080 PM10
Project: Montana Resources/ Greely School DH
Matrix: Air

Lab ID: B25040355-005
Collection Date: 03/02/25
DateReceived: 04/03/25
Report Date: 04/18/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.090	ug/filter	J	1.0	0.058	E200.8	04/11/25 23:25 / jks	04/04/25 12:10	40CFR50	ICPMS208-B_250411A : 37		198638
Cadmium	0.0054	ug/filter	J	1.0	0.0044	E200.8	04/08/25 05:50 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 178		198638
Copper	1.1	ug/filter		1.0	0.16	E200.8	04/08/25 05:50 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 178		198638
Lead	0.078	ug/filter	J	1.0	0.042	E200.8	04/08/25 05:50 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 178		198638
Manganese	0.27	ug/filter	J	1.0	0.18	E200.8	04/08/25 05:50 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 178		198638
Molybdenum	0.020	ug/filter	J	1.0	0.0059	E200.8	04/08/25 05:50 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 178		198638
Zinc	0.62	ug/filter	J	1.0	0.30	E200.8	04/08/25 05:50 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 178		198638

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1109081 TSP 3/05-3/12
Project: Montana Resources/ Greely School DH
Matrix: Air

Lab ID: B25040355-006
Collection Date: 03/12/25
DateReceived: 04/03/25
Report Date: 04/18/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.091	ug/filter	J	1.0	0.058	E200.8	04/11/25 23:31 / jks	04/04/25 12:10	40CFR50	ICPMS208-B_250411A	38	198638
Cadmium	ND	ug/filter		1.0	0.0044	E200.8	04/08/25 05:56 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	179	198638
Copper	0.96	ug/filter	J	1.0	0.16	E200.8	04/08/25 05:56 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	179	198638
Lead	0.068	ug/filter	J	1.0	0.042	E200.8	04/08/25 05:56 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	179	198638
Manganese	0.26	ug/filter	J	1.0	0.18	E200.8	04/08/25 05:56 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	179	198638
Molybdenum	0.063	ug/filter	J	1.0	0.0059	E200.8	04/08/25 05:56 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	179	198638
Zinc	0.50	ug/filter	J	1.0	0.30	E200.8	04/08/25 05:56 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	179	198638

Report Definitions:
RL - Analyte Reporting Limit
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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1109082 PM10
Project: Montana Resources/ Greely School DH
Matrix: Air

Lab ID: B25040355-007
Collection Date: 03/08/25
DateReceived: 04/03/25
Report Date: 04/18/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.080	ug/filter	J	1.0	0.058	E200.8	04/11/25 23:37 / jks	04/04/25 12:10	40CFR50	ICPMS208-B_250411A	39	198638
Cadmium	ND	ug/filter		1.0	0.0044	E200.8	04/08/25 06:02 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	180	198638
Copper	0.71	ug/filter	J	1.0	0.16	E200.8	04/08/25 06:02 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	180	198638
Lead	0.063	ug/filter	J	1.0	0.042	E200.8	04/08/25 06:02 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	180	198638
Manganese	0.26	ug/filter	J	1.0	0.18	E200.8	04/08/25 06:02 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	180	198638
Molybdenum	0.046	ug/filter	J	1.0	0.0059	E200.8	04/08/25 06:02 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	180	198638
Zinc	0.62	ug/filter	J	1.0	0.30	E200.8	04/08/25 06:02 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A	180	198638

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1109083 TSP 3-12-3/18
Project: Montana Resources/ Greely School DH
Matrix: Air

Lab ID: B25040355-008
Collection Date: 03/18/25
DateReceived: 04/03/25
Report Date: 04/18/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.088	ug/filter	J	1.0	0.058	E200.8	04/11/25 23:43 / jks	04/04/25 12:10	40CFR50	ICPMS208-B_250411A : 40		198638
Cadmium	ND	ug/filter		1.0	0.0044	E200.8	04/08/25 06:20 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 183		198638
Copper	0.41	ug/filter	J	1.0	0.16	E200.8	04/08/25 06:20 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 183		198638
Lead	ND	ug/filter		1.0	0.042	E200.8	04/08/25 06:20 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 183		198638
Manganese	ND	ug/filter		1.0	0.18	E200.8	04/08/25 06:20 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 183		198638
Molybdenum	0.050	ug/filter	J	1.0	0.0059	E200.8	04/08/25 06:20 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 183		198638
Zinc	ND	ug/filter		1.0	0.30	E200.8	04/08/25 06:20 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 183		198638

Report Definitions:
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MCL - Maximum Contaminant Level
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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1109084 PM10
Project: Montana Resources/ Greely School DH
Matrix: Air

Lab ID: B25040355-009
Collection Date: 03/14/25
DateReceived: 04/03/25
Report Date: 04/18/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.079	ug/filter	J	1.0	0.058	E200.8	04/11/25 23:49 / jks	04/04/25 12:10	40CFR50	ICPMS208-B_250411A : 41		198638
Cadmium	ND	ug/filter		1.0	0.0044	E200.8	04/08/25 06:26 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 184		198638
Copper	0.42	ug/filter	J	1.0	0.16	E200.8	04/08/25 06:26 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 184		198638
Lead	ND	ug/filter		1.0	0.042	E200.8	04/08/25 06:26 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 184		198638
Manganese	ND	ug/filter		1.0	0.18	E200.8	04/08/25 06:26 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 184		198638
Molybdenum	0.016	ug/filter	J	1.0	0.0059	E200.8	04/08/25 06:26 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 184		198638
Zinc	0.34	ug/filter	J	1.0	0.30	E200.8	04/08/25 06:26 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 184		198638

Report Definitions:
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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1109100 Field Blank
Project: Montana Resources/ Greely School DH
Matrix: Air

Lab ID: B25040355-010
Collection Date: 03/18/25 10:16
DateReceived: 04/03/25
Report Date: 04/18/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.069	ug/filter	J	1.0	0.058	E200.8	04/12/25 00:07 / jks	04/04/25 12:10	40CFR50	ICPMS208-B_250411A : 44		198638
Cadmium	ND	ug/filter		1.0	0.0044	E200.8	04/08/25 06:32 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 185		198638
Copper	ND	ug/filter		1.0	0.16	E200.8	04/08/25 06:32 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 185		198638
Lead	ND	ug/filter		1.0	0.042	E200.8	04/08/25 06:32 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 185		198638
Manganese	ND	ug/filter		1.0	0.18	E200.8	04/08/25 06:32 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 185		198638
Molybdenum	ND	ug/filter		1.0	0.0059	E200.8	04/08/25 06:32 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 185		198638
Zinc	0.39	ug/filter	J	1.0	0.30	E200.8	04/08/25 06:32 / ae	04/04/25 12:10	40CFR50	ICPMS208-B_250407A : 185		198638

Report Definitions:
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MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25040355 **Report Date:** 04/15/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Analytical Run: ICPMS208-B_250407A	
Lab ID: QCS	6	Initial Calibration Verification Standard							04/08/25 02:15	
Cadmium		0.0243	mg/L	0.0010	97	90	110			
Copper		0.0513	mg/L	0.010	103	90	110			
Lead		0.0478	mg/L	0.0010	96	90	110			
Manganese		0.252	mg/L	0.0050	101	90	110			
Molybdenum		0.0475	mg/L	0.0050	95	90	110			
Zinc		0.0511	mg/L	0.0050	102	90	110			
Lab ID: CCV	6	Continuing Calibration Verification Standard							04/08/25 04:45	
Cadmium		0.0495	mg/L	0.0010	99	90	110			
Copper		0.0516	mg/L	0.010	103	90	110			
Lead		0.0484	mg/L	0.0010	97	90	110			
Manganese		0.0502	mg/L	0.0050	100	90	110			
Molybdenum		0.0480	mg/L	0.0050	96	90	110			
Zinc		0.0507	mg/L	0.0050	101	90	110			
Lab ID: CCV	6	Continuing Calibration Verification Standard							04/08/25 06:08	
Cadmium		0.0493	mg/L	0.0010	99	90	110			
Copper		0.0522	mg/L	0.010	104	90	110			
Lead		0.0485	mg/L	0.0010	97	90	110			
Manganese		0.0498	mg/L	0.0050	100	90	110			
Molybdenum		0.0475	mg/L	0.0050	95	90	110			
Zinc		0.0513	mg/L	0.0050	103	90	110			
Method: E200.8									Batch: 198638	
Lab ID: MB-198638	7	Method Blank				Run: ICPMS208-B_250407A			04/08/25 05:03	
Arsenic		0.06	ug/filter	0.06						
Cadmium		ND	ug/filter	0.004						
Copper		ND	ug/filter	0.2						
Lead		ND	ug/filter	0.04						
Manganese		ND	ug/filter	0.2						
Molybdenum		ND	ug/filter	0.006						
Zinc		ND	ug/filter	0.3						
Lab ID: LCS-198638	7	Laboratory Control Sample				Run: ICPMS208-B_250407A			04/08/25 05:09	
Arsenic		108	ug/filter	1.0	108	85	115			
Cadmium		53.6	ug/filter	1.0	107	85	115			
Copper		111	ug/filter	5.0	111	85	115			
Lead		102	ug/filter	1.0	102	85	115			
Manganese		529	ug/filter	5.0	106	85	115			
Molybdenum		106	ug/filter	1.0	106	85	115			
Zinc		112	ug/filter	5.0	112	85	115			
Lab ID: LCSD-198638	7	Laboratory Control Sample Duplicate				Run: ICPMS208-B_250407A			04/08/25 05:15	
Arsenic		106	ug/filter	1.0	106	85	115	1.4	20	
Cadmium		53.7	ug/filter	1.0	107	85	115	0.3	20	
Copper		108	ug/filter	5.0	108	85	115	1.9	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25040355 **Report Date:** 04/15/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E200.8**										Batch: 198638
Lab ID: **LCSD-198638**	7	Laboratory Control Sample Duplicate				Run: ICPMS208-B_250407A				04/08/25 05:15
Lead		104	ug/filter	1.0	104	85	115	1.8	20	
Manganese		522	ug/filter	5.0	104	85	115	1.3	20	
Molybdenum		105	ug/filter	1.0	105	85	115	0.6	20	
Zinc		108	ug/filter	5.0	108	85	115	4.1	20	
Method: **E200.8**										Analytical Run: ICPMS208-B_250411A
Lab ID: **QCS**		Initial Calibration Verification Standard								04/11/25 21:08
Arsenic		0.0495	mg/L	0.0050	99	90	110			
Lab ID: **CCV**		Continuing Calibration Verification Standard								04/11/25 22:37
Arsenic		0.0511	mg/L	0.0050	102	90	110			
Lab ID: **CCV**		Continuing Calibration Verification Standard								04/11/25 23:55
Arsenic		0.0504	mg/L	0.0050	101	90	110			
Method: **E200.8**										Batch: 198638
Lab ID: **MB-198638**		Method Blank				Run: ICPMS208-B_250411A				04/11/25 22:55
Arsenic		0.06	ug/filter	0.06						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Work Order Receipt Checklist

Bison Engineering

B25040355

Login completed by: Kyelie L. Pflock
Date Received: 4/3/2025

Reviewed by: dharris
Received by: CMJ

Reviewed Date: 4/7/2025
Carrier name: Hand Deliver

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	2.6°C Blue Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None

Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
Billings, MT	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
	Florida (Primary NELAP)	E87668
	Idaho	MT00005
	Louisiana	05079
	Montana	CERT0044
	Nebraska	NE-OS-13-04
	Nevada	NV-C24-00250
	North Dakota	R-007
	National Radon Proficiency	109383-RMP
	Oregon	4184
	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
Casper, WY	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
	Montana	CERT0002
	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
Helena, MT	Colorado	MT00945
	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

Chain of Custody & Analytical Request Record

ENERGY LABORATORIES — Trust our People. Trust our Data.

www.energylab.com

Account Information *(Billing information)*

Company/Name	Bison Engineering, Inc.
Contact	Melissa Young
Phone	(406) 442-5768
Mailing Address	3143 E Lyndale Avenue
City, State, Zip	Helena MT, 59601
Email	myoung@bison-eng.com
Receive Invoice	☐Hard Copy ■Email
Receive Report	☐Hard Copy ☐Email
Purchase Order	MTR224018
Quote	
Bottle Order	

Report Information *(if different than Account Information)*

Company/Name	Bison Engineering, Inc.
Contact	Don Milmine
Phone	(406) 208-4833
Mailing Address	2751 Enterprise Avenue Suite 2
City, State, Zip	Billings, MT 59102
Email	dmilmine@bison-eng.com
Receive Report	☐Hard Copy ■Email

Special Report/Formats: ☐ LEVEL IV ☐ NELAC ☐ EDD/EDT *(contact laboratory)* ☐ Other_____

Comments

Analyze per history

Project Information

Project Name, PWSID, Permit, etc.	Momtana Resources/Greely School DH
Sampler Name	Sampler Phone
Sample Origin State	Montana
EPA/State Compliance	■ Yes ☐ No

URANIUM MINING CLIENTS MUST indicate sample type.
☐ NOT Source or Byproduct Material
☐ Source/Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11e.(2) Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

Matrix Codes
A - Air, W- Water, S - Soils/Solids, V - Vegetation, B - Bioassay, O - Other, DW - Drinking Water

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

	Sample Identification (Name, Location, Interval, etc.)	Collection Date	Collection Time	Number of Containers	Matrix (See Codes Above)	Arsenic	Cadmium	Copper	Lead	Manganese	Molybdenum	Zinc			See Attached	RUSH TAT	ELI LAB ID (Laboratory Use Only)
1	Particulate filter C1109076 TSP 2/19 - 2/25	2/19→2/25	continuous	1	on teflon filter	x	x	x	x	x	x	x					B25040355
2	Particulate filter C1109077 PM10	2/24/25	24 hr composite	1	on teflon filter	x	x	x	x	x	x	x					
3	Particulate filter C1109078 TSP 2/25 - 3/5	2/25→3/5	continuous	1	on teflon filter	x	x	x	x	x	x	x					
4	Particulate filter C1109079 Lab Blank	2/13/25	1640	1	on teflon filter	x	x	x	x	x	x	x					
5	Particulate filter C1109080 PM10	3/2/25	24 hr composite	1	on teflon filter	x	x	x	x	x	x	x					
6	Particulate filter C1109081TSP 3/05 - 3/12	3/5→3/12	continuous	1	on teflon filter	x	x	x	x	x	x	x					
7	Particulate filter C1109082 PM10	3/8/25	24 hr composite	1	on teflon filter	x	x	x	x	x	x	x					
8	Particulate filter C1109083TSP 3/12 - 3/18	3/12→3/18	continuous	1	on teflon filter	x	x	x	x	x	x	x					
9	Particulate filter C1109084 PM10	3/14/25	24 hr composite	1	on teflon filter	x	x	x	x	x	x	x					
10	Particulate filter C1109100 Field blank	3/18/25	1016	1	on teflon filter	x	x	x	x	x	x	x					

Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	Don Milmine	4/3/25 1102	Don V. Milmine			
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
				Crystal Jones	040325 1102	

LABORATORY USE ONLY

Shipped By	Cooler ID(s)	Custody Seals Y N C B	Intact Y N	Receipt Temp °C	Temp Blank Y N	On Ice Y N	Payment Type CC Cash Check_____	Amount $	Receipt Number *(cash/check only)*

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

ELI-COC-10/18 v.3

ANALYTICAL SUMMARY REPORT

May 05, 2025

Bison Engineering
3143 E Lyndale Ave
Helena, MT 59601-6401

Work Order: B25041678 Quote ID: B4795

Project Name: Montana Resources/Greely School DH

Energy Laboratories Inc Billings MT received the following 10 samples for Bison Engineering on 4/22/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25041678-001	Particulate filter C1104706 Lab Blank	03/10/25 14:00	04/22/25	Air	Metals on air filter by ICP/ICPMS Nitric acid-extraction by 40CFR50G
B25041678-002	Particulate filter C1104707 TSP 3/18-3/25	03/25/25 00:00	04/22/25	Air	Same As Above
B25041678-003	Particulate filter C1104708 PM10	03/20/25 00:00	04/22/25	Air	Same As Above
B25041678-004	Particulate filter C1104709 TSP 3/25-3/31	03/31/25 00:00	04/22/25	Air	Same As Above
B25041678-005	Particulate filter C1104710 PM10	03/26/25 00:00	04/22/25	Air	Same As Above
B25041678-006	Particulate filter C1104711 TSP 3/31-4/2	04/02/25 00:00	04/22/25	Air	Same As Above
B25041678-007	Particulate filter C1104712 PM10	04/01/25 00:00	04/22/25	Air	Same As Above
B25041678-008	Particulate filter C1104713 TSP 4/2-4/8	04/08/25 00:00	04/22/25	Air	Same As Above
B25041678-009	Particulate filter C1104714 PM10	04/07/25 00:00	04/22/25	Air	Same As Above
B25041678-010	Particulate filter C1104715 Field Blank	04/14/25 15:23	04/22/25	Air	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1104706 Lab Blank
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25041678-001
Collection Date: 03/10/25 14:00
DateReceived: 04/22/25
Report Date: 05/05/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.065	ug/filter	J	1.0	0.058	E200.8	05/02/25 03:45 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	414	199348
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	05/01/25 08:36 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	208	199348
Copper	ND	ug/filter		1.0	0.16	E200.8	05/01/25 08:36 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	208	199348
Lead	ND	ug/filter		1.0	0.042	E200.8	05/01/25 08:36 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	208	199348
Manganese	ND	ug/filter		1.0	0.18	E200.8	05/01/25 08:36 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	208	199348
Molybdenum	ND	ug/filter		1.0	0.0050	E200.8	05/02/25 22:09 / ae	04/29/25 10:48	40CFR50	ICPMS207-B_250502A	119	199348
Zinc	ND	ug/filter		1.0	0.30	E200.8	05/01/25 08:36 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	208	199348

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1104707 TSP 3/18-3/25
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25041678-002
Collection Date: 03/25/25
DateReceived: 04/22/25
Report Date: 05/05/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.065	ug/filter	J	1.0	0.058	E200.8	05/02/25 03:50 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	415	199348
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	05/01/25 08:42 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	209	199348
Copper	0.42	ug/filter	J	1.0	0.16	E200.8	05/02/25 03:50 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	415	199348
Lead	ND	ug/filter		1.0	0.042	E200.8	05/01/25 08:42 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	209	199348
Manganese	ND	ug/filter		1.0	0.18	E200.8	05/01/25 08:42 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	209	199348
Molybdenum	0.026	ug/filter	J	1.0	0.0050	E200.8	05/02/25 03:50 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	415	199348
Zinc	0.34	ug/filter	J	1.0	0.30	E200.8	05/02/25 03:50 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	415	199348

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1104708 PM10
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25041678-003
Collection Date: 03/20/25
DateReceived: 04/22/25
Report Date: 05/05/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.070	ug/filter	J	1.0	0.058	E200.8	05/02/25 03:56 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	416	199348
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	05/01/25 08:48 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	210	199348
Copper	0.37	ug/filter	J	1.0	0.16	E200.8	05/02/25 03:56 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	416	199348
Lead	ND	ug/filter		1.0	0.042	E200.8	05/01/25 08:48 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	210	199348
Manganese	0.27	ug/filter	J	1.0	0.18	E200.8	05/02/25 03:56 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	416	199348
Molybdenum	0.030	ug/filter	J	1.0	0.0050	E200.8	05/02/25 03:56 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	416	199348
Zinc	0.44	ug/filter	J	1.0	0.30	E200.8	05/02/25 03:56 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	416	199348

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1104709 TSP 3/25-3/31
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25041678-004
Collection Date: 03/31/25
DateReceived: 04/22/25
Report Date: 05/05/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.070	ug/filter	J	1.0	0.058	E200.8	05/02/25 04:02 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	417	199348
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	05/01/25 08:54 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	211	199348
Copper	0.76	ug/filter	J	1.0	0.16	E200.8	05/02/25 04:02 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	417	199348
Lead	0.047	ug/filter	J	1.0	0.042	E200.8	05/02/25 04:02 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	417	199348
Manganese	0.21	ug/filter	J	1.0	0.18	E200.8	05/02/25 04:02 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	417	199348
Molybdenum	0.050	ug/filter	J	1.0	0.0050	E200.8	05/02/25 04:02 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	417	199348
Zinc	0.45	ug/filter	J	1.0	0.30	E200.8	05/02/25 04:02 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	417	199348

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1104710 PM10
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25041678-005
Collection Date: 03/26/25
DateReceived: 04/22/25
Report Date: 05/05/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.080	ug/filter	J	1.0	0.058	E200.8	05/02/25 04:08 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	418	199348
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	05/01/25 09:00 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	212	199348
Copper	1.7	ug/filter		1.0	0.16	E200.8	05/01/25 09:00 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	212	199348
Lead	0.080	ug/filter	J	1.0	0.042	E200.8	05/02/25 04:08 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	418	199348
Manganese	0.31	ug/filter	J	1.0	0.18	E200.8	05/02/25 04:08 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	418	199348
Molybdenum	0.039	ug/filter	J	1.0	0.0050	E200.8	05/02/25 04:08 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	418	199348
Zinc	0.67	ug/filter	J	1.0	0.30	E200.8	05/02/25 04:08 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	418	199348

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1104711 TSP 3/31-4/2
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25041678-006
Collection Date: 04/02/25
DateReceived: 04/22/25
Report Date: 05/05/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.063	ug/filter	J	1.0	0.058	E200.8	05/02/25 04:14 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	419	199348
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	05/01/25 09:05 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	213	199348
Copper	ND	ug/filter		1.0	0.16	E200.8	05/01/25 09:05 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	213	199348
Lead	ND	ug/filter		1.0	0.042	E200.8	05/01/25 09:05 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	213	199348
Manganese	ND	ug/filter		1.0	0.18	E200.8	05/01/25 09:05 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	213	199348
Molybdenum	0.024	ug/filter	J	1.0	0.0050	E200.8	05/02/25 04:14 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	419	199348
Zinc	ND	ug/filter		1.0	0.30	E200.8	05/01/25 09:05 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	213	199348

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1104712 PM10
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25041678-007
Collection Date: 04/01/25
DateReceived: 04/22/25
Report Date: 05/05/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.071	ug/filter	J	1.0	0.058	E200.8	05/02/25 04:20 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	420	199348
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	05/01/25 09:23 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	216	199348
Copper	0.43	ug/filter	J	1.0	0.16	E200.8	05/02/25 04:20 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	420	199348
Lead	ND	ug/filter		1.0	0.042	E200.8	05/01/25 09:23 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	216	199348
Manganese	ND	ug/filter		1.0	0.18	E200.8	05/01/25 09:23 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	216	199348
Molybdenum	0.016	ug/filter	J	1.0	0.0050	E200.8	05/02/25 04:20 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	420	199348
Zinc	0.32	ug/filter	J	1.0	0.30	E200.8	05/02/25 04:20 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	420	199348

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1104713 TSP 4/2-4/8
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25041678-008
Collection Date: 04/08/25
DateReceived: 04/22/25
Report Date: 05/05/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.070	ug/filter	J	1.0	0.058	E200.8	05/02/25 04:37 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	423	199348
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	05/01/25 09:29 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	217	199348
Copper	0.49	ug/filter	J	1.0	0.16	E200.8	05/02/25 04:37 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	423	199348
Lead	ND	ug/filter		1.0	0.042	E200.8	05/01/25 09:29 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	217	199348
Manganese	0.20	ug/filter	J	1.0	0.18	E200.8	05/02/25 04:37 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	423	199348
Molybdenum	0.091	ug/filter	J	1.0	0.0050	E200.8	05/02/25 04:37 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	423	199348
Zinc	0.45	ug/filter	J	1.0	0.30	E200.8	05/02/25 04:37 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	423	199348

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1104714 PM10
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25041678-009
Collection Date: 04/07/25
DateReceived: 04/22/25
Report Date: 05/05/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.077	ug/filter	J	1.0	0.058	E200.8	05/02/25 04:43 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	424	199348
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	05/01/25 09:34 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	218	199348
Copper	1.2	ug/filter		1.0	0.16	E200.8	05/01/25 09:34 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	218	199348
Lead	0.065	ug/filter	J	1.0	0.042	E200.8	05/02/25 04:43 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	424	199348
Manganese	0.31	ug/filter	J	1.0	0.18	E200.8	05/02/25 04:43 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	424	199348
Molybdenum	0.12	ug/filter	J	1.0	0.0050	E200.8	05/02/25 04:43 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	424	199348
Zinc	0.55	ug/filter	J	1.0	0.30	E200.8	05/02/25 04:43 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	424	199348

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Bison Engineering
Client Sample ID: Particulate filter C1104715 Field Blank
Project: Montana Resources/Greely School DH
Matrix: Air

Lab ID: B25041678-010
Collection Date: 04/14/25 15:23
DateReceived: 04/22/25
Report Date: 05/05/25

Analyses	Result	Units	QUAL	RL	MDL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS IN AIR												
Arsenic	0.074	ug/filter	J	1.0	0.058	E200.8	05/02/25 04:49 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	425	199348
Cadmium	ND	ug/filter		1.0	0.0063	E200.8	05/01/25 09:40 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	219	199348
Copper	0.65	ug/filter	J	1.0	0.16	E200.8	05/02/25 04:49 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	425	199348
Lead	0.050	ug/filter	J	1.0	0.042	E200.8	05/02/25 04:49 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	425	199348
Manganese	0.25	ug/filter	J	1.0	0.18	E200.8	05/02/25 04:49 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	425	199348
Molybdenum	0.094	ug/filter	J	1.0	0.0050	E200.8	05/02/25 04:49 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	425	199348
Zinc	0.69	ug/filter	J	1.0	0.30	E200.8	05/02/25 04:49 / jks	04/29/25 10:48	40CFR50	ICPMS207-B_250430A	425	199348

Report Definitions:
RL - Analyte Reporting Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25041678 **Report Date:** 05/05/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Analytical Run: ICPMS207-B_250430A	
Lab ID: QCS	7	Initial Calibration Verification Standard								05/01/25 05:18
Arsenic		0.0401	mg/L	0.0050	100	90	110			
Cadmium		0.0200	mg/L	0.0010	100	90	110			
Copper		0.0393	mg/L	0.010	98	90	110			
Lead		0.0386	mg/L	0.0010	97	90	110			
Manganese		0.199	mg/L	0.0050	100	90	110			
Molybdenum		0.0399	mg/L	0.0050	100	90	110			
Zinc		0.0400	mg/L	0.0050	100	90	110			
Lab ID: CCV	7	Continuing Calibration Verification Standard								05/01/25 07:50
Arsenic		0.0506	mg/L	0.0050	101	90	110			
Cadmium		0.0497	mg/L	0.0010	99	90	110			
Copper		0.0490	mg/L	0.010	98	90	110			
Lead		0.0495	mg/L	0.0010	99	90	110			
Manganese		0.0500	mg/L	0.0050	100	90	110			
Molybdenum		0.0503	mg/L	0.0050	101	90	110			
Zinc		0.0503	mg/L	0.0050	101	90	110			
Lab ID: CCV	7	Continuing Calibration Verification Standard								05/01/25 09:11
Arsenic		0.0512	mg/L	0.0050	102	90	110			
Cadmium		0.0496	mg/L	0.0010	99	90	110			
Copper		0.0492	mg/L	0.010	98	90	110			
Lead		0.0494	mg/L	0.0010	99	90	110			
Manganese		0.0500	mg/L	0.0050	100	90	110			
Molybdenum		0.0503	mg/L	0.0050	101	90	110			
Zinc		0.0507	mg/L	0.0050	101	90	110			
Lab ID: QCS	7	Initial Calibration Verification Standard								05/02/25 03:10
Arsenic		0.0392	mg/L	0.0050	98	90	110			
Cadmium		0.0204	mg/L	0.0010	102	90	110			
Copper		0.0387	mg/L	0.010	97	90	110			
Lead		0.0390	mg/L	0.0010	98	90	110			
Manganese		0.196	mg/L	0.0050	98	90	110			
Molybdenum		0.0408	mg/L	0.0050	102	90	110			
Zinc		0.0397	mg/L	0.0050	99	90	110			
Lab ID: CCV	7	Continuing Calibration Verification Standard								05/02/25 03:15
Arsenic		0.0507	mg/L	0.0050	101	90	110			
Cadmium		0.0521	mg/L	0.0010	104	90	110			
Copper		0.0493	mg/L	0.010	99	90	110			
Lead		0.0504	mg/L	0.0010	101	90	110			
Manganese		0.0504	mg/L	0.0050	101	90	110			
Molybdenum		0.0529	mg/L	0.0050	106	90	110			
Zinc		0.0498	mg/L	0.0050	100	90	110			
Lab ID: CCV	7	Continuing Calibration Verification Standard								05/02/25 04:26
Arsenic		0.0508	mg/L	0.0050	102	90	110			
Cadmium		0.0517	mg/L	0.0010	103	90	110			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25041678 **Report Date:** 05/05/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Analytical Run: ICPMS207-B_250430A
Lab ID: CCV	7	Continuing Calibration Verification Standard								05/02/25 04:26
Copper		0.0494	mg/L	0.010	99	90	110			
Lead		0.0504	mg/L	0.0010	101	90	110			
Manganese		0.0502	mg/L	0.0050	100	90	110			
Molybdenum		0.0524	mg/L	0.0050	105	90	110			
Zinc		0.0505	mg/L	0.0050	101	90	110			
Method: E200.8										Batch: 199348
Lab ID: MB-199348	7	Method Blank				Run: ICPMS207-B_250430A				05/01/25 08:13
Arsenic		0.09	ug/filter	0.06						
Cadmium		ND	ug/filter	0.006						
Copper		ND	ug/filter	0.2						
Lead		ND	ug/filter	0.04						
Manganese		ND	ug/filter	0.2						
Molybdenum		0.006	ug/filter	0.005						
Zinc		ND	ug/filter	0.3						
Lab ID: LCS-199348	7	Laboratory Control Sample				Run: ICPMS207-B_250430A				05/01/25 08:19
Arsenic		104	ug/filter	1.0	104	85	115			
Cadmium		52.8	ug/filter	1.0	106	85	115			
Copper		102	ug/filter	5.0	102	85	115			
Lead		105	ug/filter	1.0	105	85	115			
Manganese		531	ug/filter	5.0	106	85	115			
Molybdenum		105	ug/filter	1.0	105	85	115			
Zinc		104	ug/filter	5.0	104	85	115			
Lab ID: LCSD-199348	7	Laboratory Control Sample Duplicate				Run: ICPMS207-B_250430A				05/01/25 08:25
Arsenic		104	ug/filter	1.0	104	85	115	0.6	20	
Cadmium		52.4	ug/filter	1.0	105	85	115	0.7	20	
Copper		100	ug/filter	5.0	100	85	115	1.6	20	
Lead		102	ug/filter	1.0	102	85	115	2.4	20	
Manganese		524	ug/filter	5.0	105	85	115	1.3	20	
Molybdenum		104	ug/filter	1.0	104	85	115	0.3	20	
Zinc		103	ug/filter	5.0	103	85	115	1.0	20	
Lab ID: MB-199348	6	Method Blank				Run: ICPMS207-B_250430A				05/02/25 03:39
Arsenic		0.06	ug/filter	0.06						
Copper		ND	ug/filter	0.2						
Lead		ND	ug/filter	0.04						
Manganese		ND	ug/filter	0.2						
Molybdenum		0.006	ug/filter	0.005						
Zinc		ND	ug/filter	0.3						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25041678 **Report Date:** 05/05/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Analytical Run: ICPMS207-B_250502A
Lab ID: QCS		Initial Calibration Verification Standard								05/02/25 17:28
Molybdenum		0.0408	mg/L	0.0050	102	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard								05/02/25 21:22
Molybdenum		0.0527	mg/L	0.0050	105	90	110			
Method: E200.8										Batch: 199348
Lab ID: MB-199348		Method Blank				Run: ICPMS207-B_250502A				05/02/25 22:03
Molybdenum		0.01	ug/filter	0.005						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Work Order Receipt Checklist

Bison Engineering

B25041678

Login completed by: Kyelie L. Pflock
Date Received: 4/22/2025

Reviewed by: cjones
Received by: DNH

Reviewed Date: 4/25/2025
Carrier name: Hand Deliver

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	0.7°C Blue Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None

Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
Billings, MT	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
	Florida (Primary NELAP)	E87668
	Idaho	MT00005
	Louisiana	05079
	Montana	CERT0044
	Nebraska	NE-OS-13-04
	Nevada	NV-C24-00250
	North Dakota	R-007
	National Radon Proficiency	109383-RMP
	Oregon	4184
	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
Casper, WY	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
	Montana	CERT0002
	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
Helena, MT	Colorado	MT00945
	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

Chain of Custody & Analytical Request Record

ENERGY LABORATORIES — Trust our People. Trust our Data.

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Account Information *(Billing information)*

Company/Name	Bison Engineering, Inc.
Contact	Melissa Young
Phone	(406) 442-5768
Mailing Address	3143 E Lyndale Avenue
City, State, Zip	Helena MT, 59601
Email	myoung@bison-eng.com
Receive Invoice	☐Hard Copy ■Email
Receive Report	☐Hard Copy ☐Email
Purchase Order	MTR225018
Quote	
Bottle Order	

Report Information *(if different than Account Information)*

Company/Name	Bison Engineering, Inc.
Contact	Don Milmine
Phone	(406) 208-4833
Mailing Address	2751 Enterprise Avenue Suite 2
City, State, Zip	Billings, MT 59102
Email	dmilmine@bison-eng.com
Receive Report	☐Hard Copy ■Email

Special Report/Formats: ☐ LEVEL IV ☐ NELAC ☐ EDD/EDT *(contact laboratory)* ☐ Other_____

Comments

Analyze per history

Project Information

Project Name, PWSID, Permit, etc.	Momtana Resources/Greely School DH
Sampler Name	Sampler Phone
Sample Origin State	Montana
EPA/State Compliance	■ Yes ☐ No

URANIUM MINING CLIENTS MUST indicate sample type.
☐ NOT Source or Byproduct Material
☐ Source/Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11e.(2) Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

Matrix Codes
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Other
DW - Drinking Water

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

	Sample Identification *(Name, Location, Interval, etc.)*	Collection Date	Collection Time	Number of Containers	Matrix *(See Codes Above)*	Arsenic	Cadmium	Copper	Lead	Manganese	Molybdenum	Zinc			See Attached	RUSH TAT	ELI LAB ID *Laboratory Use Only*
1	Particulate filter C1104706 Lab Blank	3/10/25	1400	1	on Teflon filter	x	x	x	x	x	x	x					B25041678
2	Particulate filter C1104707 TSP 3/18 - 3/25	3/18 - 3/25	continuous	1	on Teflon filter	x	x	x	x	x	x	x					
3	Particulate filter C1104708 PM10	3/20/25	24 hr Composite	1	on Teflon filter	x	x	x	x	x	x	x					
4	Particulate filter C1104709 TSP 3/25 - 3/31	3/25 - 3/31	continuous	1	on Teflon filter	x	x	x	x	x	x	x					
5	Particulate filter C1104710 PM10	3/26/25	24 hr Composite	1	on Teflon filter	x	x	x	x	x	x	x					
6	Particulate filter C1104711TSP 3/31 - 4/2	3/31 - 4/2	continuous	1	on teflon filter	x	x	x	x	x	x	x					
7	Particulate filter C1104712 PM10	4/1/25	24 hr composite	1	on teflon filter	x	x	x	x	x	x	x					
8	Particulate filter C1104713 TSP 4/2 - 4/8	4/2 - 4/8	continuous	1	on teflon filter	x	x	x	x	x	x	x					
9	Particulate filter C1104714 PM10	4/7/25	24 hr composite	1	on Teflon filter	x	x	x	x	x	x	x					
10	Particulate filter C1104715 Field blank	4/14/25	1523	1	on Teflon filter	x	x	x	x	x	x	x					

Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	Don Milmine	4/22/25 1030	Don V. Milmine			
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
				Danielle Harris	04/22/25 1430	

LABORATORY USE ONLY

Shipped By	Cooler ID(s)	Custody Seals Y N C B	Intact Y N	Receipt Temp °C	Temp Blank Y N	On Ice Y N	Payment Type CC Cash Check_____	Amount $	Receipt Number *(cash/check only)*

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

ELI-COC-10/18 v.3

APPENDIX E: COMMON GUIDELINES FOR AIRBORNE CONTAMINANTS

Dose and Risk Assessment References

Pollutant	Organization	Standard Type	Description	Value	Units	Time Period	Reference
Arsenic							
	WHO	Air Quality Guideline		0.0015	Unit Risk	Life-time	https://www.atsdr.cdc.gov/toxprofiles/tp2-c8.pdf
	NIOSH	REL		2	µg/m^3	15 min	https://www.atsdr.cdc.gov/toxprofiles/tp2-c8.pdf
	ACGIH	TLV (TWA)		10	µg/m^3	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
	OSHA	PEL (TWA)	General - organic As	200	µg/m^3	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
	OSHA	PEL (TWA)	General - inorganic As	10	µg/m^3	8-hour	https://www.atsdr.cdc.gov/toxprofiles/tp2-c8.pdf
	OSHA	PEL (TWA)	Construction - organic	500	µg/m^3	8-hour	https://www.atsdr.cdc.gov/toxprofiles/tp2-c8.pdf
	OSHA	PEL (TWA)	Shipyard - organic	500	µg/m^3	8-hour	https://www.atsdr.cdc.gov/toxprofiles/tp2-c8.pdf
	EPA	EPA- Ca	Noncancer	0.015	µg/m^3		https://www.epa.gov/sites/production/files/2014-05/documents/table1.pdf
	EPA	IRIS	Risk = 10^{-6} (lifetime)	0.043	µg/m^3	Life-time	https://www.epa.gov/sites/production/files/2014-05/documents/table1.pdf
	EPA	REL		0.20	µg/m^3	1-Hour	https://www.epa.gov/sites/production/files/2014-05/documents/table2.pdf
	EPA	RfC	Inorganic As	0.015	µg/m^3	Life-time	https://semspub.epa.gov/work/HQ/401635.pdf - (November, 2021)
	EPA	RSL	Cancer Risk @ 10^{-6}	0.65	ng/m^3	Life-time	https://semspub.epa.gov/work/HQ/401635.pdf - (November, 2021)
	EPA	RSL	HI = 1	0.016	µg/m^3		https://semspub.epa.gov/work/HQ/401635.pdf - (November, 2021)
Cadmium							
	ACGIH	TLV (TWA)	(total)	10	µg/m^3	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
	ACGIH	TLV (TWA)	(respirable)	2	µg/m^3	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
	OSHA	PEL (TWA)		5	µg/m^3		https://www.osha.gov/dsg/annotated-pels/tablez-1.html
	EPA	ATSDR	Noncancer - Cd Compounds	0.01	µg/m^3	Chronic	https://www.epa.gov/sites/production/files/2014-05/documents/table1.pdf
	EPA	IRIS	Cancer - Cd Compounds	2	µg/m^3	Chronic	https://www.epa.gov/sites/production/files/2014-05/documents/table1.pdf
	EPA	MRL	Cd Compounds	0.03	µg/m^3	Acute	
	EPA	AEGL-1 (1-hr)	Cd Compounds	100	µg/m^3	1-Hour	https://www.epa.gov/sites/production/files/2014-05/documents/table2.pdf
	EPA	AEGL-1 (8-hr)	Cd Compounds	41	µg/m^3	8-Hour	https://www.epa.gov/sites/production/files/2014-05/documents/table2.pdf
	EPA	RfC	Cd (water)	0.01	µg/m^3	Life-time	https://semspub.epa.gov/work/HQ/401635.pdf - (November, 2021)
	EPA	RSL: TR @ 10^{-6}	Cd (water) (Cancer Risk)	1.60	ng/m^3	Life-time	https://semspub.epa.gov/work/HQ/401635.pdf - (November, 2021)
	EPA	RSL: HI = 1	Cd (water) (Noncancer Risk)	10	ng/m^3	HI=1	https://semspub.epa.gov/work/HQ/401635.pdf - (November, 2021)
Copper							
	ACGIH	TLV (TWA)	(dust & mist)	1,000	µg/m^3	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
	NIOSH	REL (TWA)		1,000	µg/m^3	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
	OSHA	PEL (TWA)		1,000	µg/m^3	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
Lead (Pb)							
	ACGIH	TLV (TWA)	(inorganic)	50	µg/m^3	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
	NIOSH	REL (TWA)	(inorganic+ organic salts)	50	µg/m^3	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
	OSHA	PEL (TWA)	(inorganic)	50	µg/m^3	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
	EPA	NAAQS		0.150	µg/m^3	3-month mean	40 CFR 50.12 (and Appendix R)
	NIOSH	IGHL/10	Lead compounds	10	mg/m^3		https://www.epa.gov/sites/production/files/2014-05/documents/table2.pdf
	EPA	RSL: HI = 1	Pb (Noncancer Risk)	0.15	µg/m^3	HI=1	https://semspub.epa.gov/work/HQ/401635.pdf - (November, 2021)
Manganese							
	ACGIH	TLV (TWA)	(compounds + fumes)	20	µg/m^3	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
	NIOSH	REL (TWA)	(compounds + fumes)	1,000	µg/m^3	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
	OSHA	PEL (TWA)	(compounds + fumes)	5,000	µg/m^3	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
	ATSDR	Screen for Risk Assessment	Noncancer - Mn Compounds	0.30	µg/m^3	Chronic	https://www.epa.gov/sites/production/files/2014-05/documents/table2.pdf
	NIOSH	IGHL/10	Manganese compounds	50	mg/m^3		https://www.epa.gov/sites/production/files/2014-05/documents/table2.pdf
	USDOE	TEEL-1	MnO, MO_2 & $MnSO_4$	4.7	mg/m^3	1-Hour	https://www.epa.gov/sites/production/files/2014-05/documents/table2.pdf
	EPA	RSL: HI = 1	Mn (non-diet) (Noncancer Risk)	0.052	µg/m^3	HI=1	https://semspub.epa.gov/work/HQ/401635.pdf - (November, 2021)
	EPA	RfC	Mn (non-diet)	0.05	µg/m^3	Life-time	https://semspub.epa.gov/work/HQ/401635.pdf - (November, 2021)
Molybdenum							
	ACGIH	TLV (TWA)	(soluble compounds)*	500	µg/m^3	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
	NIOSH	REL (TWA)	(soluble compounds)*	N/A	µg/m^3	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
	OSHA	PEL (TWA)	(soluble compounds)*	5,000	µg/m^3	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
			* Higher limits for insoluble compounds				

Zinc (Zn)

ACGIH	TLV (TWA)	(zinc oxide - respirable)	2,000	$\mu g/m^3$	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
	STEL	(zinc oxide - respirable)	10,000	$\mu g/m^3$	15 minutes	https://www.osha.gov/dsg/annotated-pels/tablez-1.html
OSHA	PEL (TWA)	(inorganic)	5,000	$\mu g/m^3$	8-hour	https://www.osha.gov/dsg/annotated-pels/tablez-1.html

Term	Definition
ACGIH	American Congress of Governmental Industrial Hygienists
AEGL-1	Acute exposure guideline levels for mild effects: 1-hour and 8-hour
ATSDR	Agency for Toxic Substances & Disease Registry
HI (EPA)	Hazardous Index: Aggregate exposures below a HI of 1.0 will likely not result in adverse noncancer health effects over a lifetime of exposure. A respiratory HI greater than 1.0 can be best described as indicating that a potential may exist for adverse irritation to the respiratory system. https://archive.epa.gov/airtoxics/nata/web/html/gloss.html
IDHL/10	One-tenth of levels determined by NIOSH to be imminently dangerous to life and death.
IRIS	Integrated Risk Information System
NAAQS	National Ambient Air Quality Standards: 40 CFR 50.12
NIOSH	National Institute of Occupational Safety and Health (part of CDC)
PEL	Permissible Exposure Limits (expressed as 8-hour time weighted average (TWA)) 29 CFR 1910.1000 Z-1 Table
REL (NIOSH)	Recommended exposure limit: Level at which NIOSH believes protects worker safety and health over a working lifetime.
REL (Ca EPA)	California EPA concentration level at which no adverse health effect are anticipated. Includes most sensitive individuals Levels exceeding REL does not automatically indicate an adverse health impact.
RfC	Reference Concentration (EPA) is an estimate (with uncertainty spanning perhaps an order of magnitude) of a continuous inhalation exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetim https://www.epa.gov/sites/default/files/2015-08/documents/technical_appendix_a_toxicity_v2_3_3.pdf
RSL	Residential Regional Screening Level (EPA Region X) @ 10^{-6} Cancer Risk or (Noncancer) Hazardous Index (HI) = 1 (based on Hazard Quotient (HQ) of 1. https://semspub.epa.gov/work/HQ/401635.pdf Last (EPA) Table Update: November 2021
STEL	Short-Term Exposure Limit (15-minutes)
TEEL-1	Temporary emergency exposure limits for mild transient effects for 1-hour exposure
TLV	Threshold Limit Value
TWA	Time Weighted Average
WHO	World Health Organization

APPENDIX F: CALIBRATIONS

BGI PQ200 PM10 Sampler – Monthly Calibration Checks			
Date: 01/15/2025	Time: 1125 – 1142 MST	Sampler Serial Number: 1622	
Performed By: Steve Heck		Location (field or lab): Greeley School	
Ref Standard & S/N: 1) Delta Cal SN 1288		Certification Date: 1) 12-19-2024	
Barometric Pressure Sensor Verification			
Reading (mm Hg)	Sampler (a)	Reference Standard (b)	Difference (a - b) (must be ≤ ± 10)
Ambient Pressure	627 mm Hg	629.1 mmHg	-2.1
Temperature Sensor Verification			
Reading (degrees Celsius)	Sampler (a)	Reference Standard (b)	Difference (a - b) (must be ≤ ± 2ºC)
Ambient Temperature	2.3 C	1.3 C	+1.0 C
Filter Temperature	-1.0 C	0.0 C	-1.0 C
Leak Check			
Vacuum Readings (cm H_2O)	Start 97	End 96	Pass ~~Fail~~
Flow Rate Verification			
Reading (liters per minute)	Sampler (a)	Reference Standard (b)	% Difference 100*(a – b)/b (must be ≤ ± 4%)
Operating flow rate check	16.72	16.97	-1.5%
Reading (liters per minute)	Reference Standard (b)	Design Flow Rate Standard (c)	% Difference 100*(b–16.7)/16.7 (must be ≤ ± 5%)
Design flow rate calculation	16.97	16.70	+1.6%
Removed clean filter temporarily. No adjustments			

BGI PQ200 PM10 Sampler – Monthly Calibration Checks			
Date: 02/27/2025	Time: 1404 – 1425 MST	Sampler Serial Number: 1622	
Performed By: Steve Heck		Location (field or lab): Greeley School	
Ref Standard & S/N: 1) Delta Cal SN 1288		Certification Date: 1) 12-19-2024	
Barometric Pressure Sensor Verification			
Reading (mm Hg)	Sampler (a)	Reference Standard (b)	Difference (a - b) (must be ≤ ± 10)
Ambient Pressure	622 mm Hg	625.2 mmHg	-3.1
Temperature Sensor Verification			
Reading (degrees Celsius)	Sampler (a)	Reference Standard (b)	Difference (a - b) (must be ≤ ± 2ºC)
Ambient Temperature	10.1 C	10.1 C	0.0 C
Filter Temperature	10.6 C	10.5 C	+0.1 C
Leak Check			
Vacuum Readings (cm H_2O)	Start 119	End 118	Pass ~~Fail~~
Flow Rate Verification			
Reading (liters per minute)	Sampler (a)	Reference Standard (b)	% Difference 100*(a – b)/b (must be ≤ ± 4%)
Operating flow rate check	16.70	16.92	-1.3%
Reading (liters per minute)	Reference Standard (b)	Design Flow Rate Standard (c)	% Difference 100*(b–16.7)/16.7 (must be ≤ ± 5%)
Design flow rate calculation	16.92	16.70	+1.3%
Removed clean filter temporarily. No adjustments			

BGI PQ200 PM10 Sampler – Monthly Calibration Checks			
Date: 03/12/2025	Time: 1106 – 1124 MST	Sampler Serial Number: 1622	
Performed By: Steve Heck		Location (field or lab): Greeley School	
Ref Standard & S/N: 1) Delta Cal SN 1288		Certification Date: 1) 12-19-2024	
Barometric Pressure Sensor Verification			
Reading (mm Hg)	Sampler (a)	Reference Standard (b)	Difference (a - b) (must be ≤ ± 10)
Ambient Pressure	610 mm Hg	613.2 mmHg	-3.2
Temperature Sensor Verification			
Reading (degrees Celsius)	Sampler (a)	Reference Standard (b)	Difference (a - b) (must be ≤ ± 2ºC)
Ambient Temperature	9.6 C	9.5 C	+0.1 C
Filter Temperature	9.5 C	9.9 C	-0.4 C
Leak Check			
Vacuum Readings (cm H_2O)	Start 96	End 95	Pass ~~Fail~~
Flow Rate Verification			
Reading (liters per minute)	Sampler (a)	Reference Standard (b)	% Difference 100*(a – b)/b (must be ≤ ± 4%)
Operating flow rate check	16.70	17.19	-2.9%
Reading (liters per minute)	Reference Standard (b)	Design Flow Rate Standard (c)	% Difference 100*(b–16.7)/16.7 (must be ≤ ± 5%)
Design flow rate calculation	17.19	16.70	+2.9%
Removed exposed filter temporarily. No adjustments			

BGI PQ200 PM10 Sampler – Monthly Calibration Checks			
Date: 04/29/2025	Time: 1048 – 1117 MST	Sampler Serial Number: 1622	
Performed By: Steve Heck		Location (field or lab): Greeley School	
Ref Standard & S/N: 1) Delta Cal SN 1288		Certification Date: 1) 12-19-2024	
Barometric Pressure Sensor Verification			
Reading (mm Hg)	Sampler (a)	Reference Standard (b)	Difference (a - b) (must be ≤ ± 10)
Ambient Pressure	617 mm Hg	620.7 mmHg	-3.7
Temperature Sensor Verification			
Reading (degrees Celsius)	Sampler (a)	Reference Standard (b)	Difference (a - b) (must be ≤ ± 2ºC)
Ambient Temperature	12.3 C	12.1 C	+0.2 C
Filter Temperature	12.7 C	12.8 C	-0.1 C
Leak Check			
Vacuum Readings (cm H_2O)	Start 104	End 104	Pass ~~Fail~~
Flow Rate Verification			
Reading (liters per minute)	Sampler (a)	Reference Standard (b)	% Difference 100*(a – b)/b (must be ≤ ± 4%)
Operating flow rate check	16.70	16.86	-0.9%
Reading (liters per minute)	Reference Standard (b)	Design Flow Rate Standard (c)	% Difference 100*(b–16.7)/16.7 (must be ≤ ± 5%)
Design flow rate calculation	16.86	16.70	+1.0%
Removed clean filter temporarily. No adjustments			

Met One E-Sampler – Monthly Calibration Check / ~~Quarterly Audit~~			
Date: 01/15/2025	Time: 1146-1202 MST	Sampler Serial Number: X24429	
Performed By: Steve Heck		Location (field or lab): Greeley School	
Ref Standard & S/N: 1) Swift 6.0 SN 13475 (Flow/BP) 2) Delta Cal SN 1288 (Temp)		Certification Date: 1) 09-27-2024 2) 12-19-2024	

Barometric Pressure Sensor Verification			
Reading (Pascals)	Sampler (a)	Reference Standard (b)	Difference (a - b) (limit ≤ ± 1333 Pa)
Ambient Pressure	84,173 Pa	632.6 mm Hg = 84,340 Pa	-167 Pa
Pascals = mmHg * 133.322		Limit of ±1333 Pascals = ±10 mmHg	

Temperature Sensor Verification			
Reading (degrees Celsius)	Sampler (a)	Reference Standard (b)	Difference (a - b) (must be ≤ ± 2ºC)
Ambient Temperature	8.4 C**	6.3 C**	+2.1 C**

Leak Check			
Leak Check Flow Rate	0.0 LPM	(must be <0.4 LPM)	**Pass** ~~Fail~~

Flow Rate Verification			
Reading (liters per minute)	Sampler (a)	Reference Standard (b)	% Difference 100*(a – b)/b (must be ≤ ± 5%)
Audit standard flow rate check	2.0	1.97	+1.5 %
Reading (liters per minute)	Reference Standard (b)	Design Flow Rate Standard (c)	% Difference 100*(b–2.0)/2.0 (must be ≤ ± 5%)
Design flow rate check	1.97	2.0	-1.5 %

Relative Humidity Verification			
Dry Bulb Temp. °C	-0.7	Calculated RH (a)	59.6%
Wet Bulb Temp. °C	-3.2	Sampler RH (b)	54%
BP Inches Hg	24.90	Difference = a – b (must be ≤7% RH)	-5.6%

Intense, direct sun. Adjusted temperature to read 9.2 C at reference temperature of 8.3 C

Met One E-Sampler – Monthly Calibration Check / ~~Quarterly Audit~~			
Date: 02/27/2025	Time: 1420-1440 MST	Sampler Serial Number: X24429	
Performed By: Steve Heck		Location (field or lab): Greeley School	
Ref Standard & S/N: 1) Swift 6.0 SN 13475 (Flow/BP) 2) Delta Cal SN 1288 (Temp)		Certification Date: 1) 09-27-2024 2) 12-19-2024	

Barometric Pressure Sensor Verification			
Reading (Pascals)	Sampler (a)	Reference Standard (b)	Difference (a - b) (limit ≤ ± 1333 Pa)
Ambient Pressure	83,470 Pa	626.8 mm Hg = 83,566 Pa	-96 Pa
Pascals = mmHg * 133.322		Limit of ±1333 Pascals = ±10 mmHg	

Temperature Sensor Verification			
Reading (degrees Celsius)	Sampler (a)	Reference Standard (b)	Difference (a - b) (must be ≤ ± 2ºC)
Ambient Temperature	12.8 C	12.5 C	+0.3 C

Leak Check			
Leak Check Flow Rate	0.0 LPM	(must be <0.4 LPM)	**Pass** ~~Fail~~

Flow Rate Verification			
Reading (liters per minute)	Sampler (a)	Reference Standard (b)	% Difference 100*(a – b)/b (must be ≤ ± 5%)
Audit standard flow rate check	2.0	2.01	-0.5 %
Reading (liters per minute)	Reference Standard (b)	Design Flow Rate Standard (c)	% Difference 100*(b–2.0)/2.0 (must be ≤ ± 5%)
Design flow rate check	2.01	2.0	+0.5 %

Relative Humidity Verification			
Dry Bulb Temp. °C	10.2	Calculated RH (a)	33.0%
Wet Bulb Temp. °C	3.4	Sampler RH (b)	32%
BP Inches Hg	24.68	Difference = a – b (must be ≤7% RH)	-1.0%

Met One E-Sampler – Monthly Calibration Check / ~~Quarterly Audit~~			
Date: 03/12/2025	Time: 1125-1140 MST	Sampler Serial Number: X24429	
Performed By: Steve Heck		Location (field or lab): Greeley School	
Ref Standard & S/N: 1) Swift 6.0 SN 13475 (Flow/BP) 2) Delta Cal SN 1288 (Temp)		Certification Date: 1) 09-27-2024 2) 12-19-2024	

Barometric Pressure Sensor Verification			
Reading (Pascals)	Sampler (a)	Reference Standard (b)	Difference (a - b) (limit ≤ ± 1333 Pa)
Ambient Pressure	81,888 Pa	615.3 mm Hg = 82,033 Pa	-45 Pa
Pascals = mmHg * 133.322		Limit of ±1333 Pascals = ±10 mmHg	

Temperature Sensor Verification			
Reading (degrees Celsius)	Sampler (a)	Reference Standard (b)	Difference (a - b) (must be ≤ ± 2ºC)
Ambient Temperature	9.2 C	10.1 C	-0.9 C

Leak Check			
Leak Check Flow Rate	0.0 LPM	(must be <0.4 LPM)	**Pass** ~~Fail~~

Flow Rate Verification			
Reading (liters per minute)	Sampler (a)	Reference Standard (b)	% Difference 100*(a – b)/b (must be ≤ ± 5%)
Audit standard flow rate check	2.0	2.01	-0.5 %
Reading (liters per minute)	Reference Standard (b)	Design Flow Rate Standard (c)	% Difference 100*(b–2.0)/2.0 (must be ≤ ± 5%)
Design flow rate check	2.01	2.0	+0.5 %

Relative Humidity Verification			
Dry Bulb Temp. °C	10.0	Calculated RH (a)	27.0%
Wet Bulb Temp. °C	2.5	Sampler RH (b)	28%
BP Inches Hg	24.22	Difference = a – b (must be ≤7% RH)	+1.0%

Met One E-Sampler – Monthly Calibration Check / ~~Quarterly Audit~~			
Date: 04/29/2025	Time: 1104-1118 MST	Sampler Serial Number: X24429	
Performed By: Steve Heck		Location (field or lab): Greeley School	
Ref Standard & S/N: 1) Swift 6.0 SN 13475 (Flow/BP) 2) Delta Cal SN 1288 (Temp)		Certification Date: 1) 09-27-2024 2) 12-19-2024	
Barometric Pressure Sensor Verification			
Reading (Pascals)	Sampler (a)	Reference Standard (b)	Difference (a - b) (limit ≤ ± 1333 Pa)
Ambient Pressure	82,845 Pa	622.4 mm Hg = 82,980 Pa	-135 Pa
Pascals = mmHg * 133.322		Limit of ±1333 Pascals = ±10 mmHg	
Temperature Sensor Verification (cloudy, windy)			
Reading (degrees Celsius)	Sampler (a)	Reference Standard (b)	Difference (a - b) (must be ≤ ± 2ºC)
Ambient Temperature	11.8 C	12.8 C	-1.0 C
Leak Check			
Leak Check Flow Rate	0.0 LPM	(must be <0.4 LPM)	**Pass** ~~Fail~~
Flow Rate Verification			
Reading (liters per minute)	Sampler (a)	Reference Standard (b)	% Difference 100*(a – b)/b (must be ≤ ± 5%)
Audit standard flow rate check	2.0	2.01	-0.5 %
Reading (liters per minute)	Reference Standard (b)	Design Flow Rate Standard (c)	% Difference 100*(b–2.0)/2.0 (must be ≤ ± 5%)
Design flow rate check	2.01	2.0	+0.5 %
Relative Humidity Verification			
Dry Bulb Temp. °C	12.4	Calculated RH (a)	36.8%
Wet Bulb Temp. °C	5.6	Sampler RH (b)	37%
BP Inches Hg	24.50	Difference = a – b (must be ≤7% RH)	+0.2%

APPENDIX G: CALIBRATION STANDARD CERTIFICATION SHEETS

Mesa Labs 12100 W. 6th Ave
Lakewood, CO 80228
NIST Traceable Calibration Facility

CERTIFICATE OF CALIBRATION - NIST TRACEABILITY

Calibration Report #: 1288-19122024
DeltaCal Serial Number: 1288
Calibration Technician: Elsy Lasky
Date: 19-Dec-2024
Recommended Recal Date: 19-Dec-2025

Critical Venturi Flow Meter

Max Uncertainty = 0.346%

TE20004	6 - 30.00 LPM	Calibration Due:	22-Oct-2025
TE20006	1.40 - 6.0 LPM	Calibration Due:	17-Oct-2025

Room Temperature: +- 0.03°C from -5°C - 70°C **Room Temperature:** 24.00 °C

Brand: Eutechnics
TE Number: TE12312 **Serial Number:** 358921
Std Cal Date: 26-Aug-24 **Std Cal Due Date:** 26-Aug-25

Ambient Temperature (set): 24.0 °C
Aux (filter) Temperature (set): 24.0 °C

Barometric and Absolute Pressure

Vaisala Model PTB330 (50-1100) Digital Accuracy: 0.03371%

TE Number: TE12311 **Serial Number:** H0850001
Std Cal Date: 23-Feb-24 **Std Cal Due Date:** 23-Feb-25

DeltaCal:

Barometric pressure (set): 609.10 mmHg

Results of Venturi Calibration

Flow Rate (Q) vs. Pressure Drop (ΔP). Where: Q=Lpm, ΔP= Cm of H2O

Venturi

TE20004	Q= 3.96199	ΔP ^	0.52283	Overall Uncertainty: 0.35%
TE20006	Q= 3.92006	ΔP ^	0.5439	Overall Uncertainty: 0.35%

MesaLabs

Mesa Labs 12100 W. 6th Ave Lakewood, CO 80228
NIST Traceable Calibration Facility

As Shipped Calibration Data for DeltaCal

Unit Type:	DC 1
Flow Range:	1.5-19.5 LPM
Serial No. :	1288
Firmware Version:	4.00P

Date	Technician
19Dec2024	Elsy Lasky

Ambient Pressure:	622.3	mmHg
Ambient Temperature:	24	°C

Range 1

Venturi	TE20004
Type	1A
Flow range	6 - 30.00 LPM

Test #	Static Pressure mmHg	Barometric Pressure mmHg	Venturi Qa LPM	DUT Qa LPM	% error %
1	133.14	622.7	6.517	6.500	-0.261
2	204.61	622.7	10.085	10.016	-0.684
3	264.61	622.7	13.076	13.012	-0.489
4	324.54	622.7	16.066	16.019	-0.293
5	364.67	622.7	18.074	18.012	-0.343
6	398.36	622.7	19.756	19.805	0.248
	Maximum allowable error at any flow rate is 0.75%.			Average	-0.304
				Result	PASS

Range 2

Venturi	TE20006
Type	2A
Flow range	1.40 - 6.0 LPM

Test #	Static Pressure mmHg	Barometric Pressure mmHg	Venturi Qa LPM	DUT Qa LPM	% error %
1	143.14	622.2	2.015	2.008	-0.347
2	213.42	622.2	3.023	3.016	-0.232
3	261.43	622.2	3.711	3.724	0.350
4	316.47	622.2	4.500	4.521	0.467
5	369.32	622.2	5.258	5.269	0.209
6	417.88	622.2	5.954	5.985	0.521
	Maximum allowable error at any flow rate is 0.75%.			Average	0.161
				Result	PASS

Performed By: Elsy Lasky **Date:** 19-Dec-2024

Elsy Lasky

Approved By: Troy Thacker QC Inspector **Date:** 23 DEC 2024

Troy Thacker

MesaLabs

Mesa Labs 12100 W. 6th Ave Lakewood, CO 80228
NIST Traceable Calibration Facility

As-Found data for DeltaCal

Unit Type:	DC 1
Flow Range:	1.5-19.5 LPM
Serial No. :	1288
Firmware Version:	4.00P

Date	Technician
19Dec2024	Elsy Lasky

Ambient Pressure:	622.3	mmHg
Ambient Temperature:	24	°C

	As Received Temp. Press. Calibration				As Shipped Temp. Press. Calibration			
	DUT	**Standard**	**Diff**	**+/- 1 mmHg**	**DUT**	**Standard**	**Diff**	**+/-1 mmHg**
$Pres_{AMB}$ mmHg	609.6	619.9	-10.3	Fail	622.2	622.3	-0.1	Pass
	DUT	**Standard**	**Diff**	**+/- 1 °C**	**DUT**	**Standard**	**Diff**	**+/- 1 °C**
$Temp_{AMB}$ °C	-51	24	-75	Fail	24	24	0	Pass
$Temp_{Filter}$ °C	24	24	0	Pass	24	24	0	Pass

	Offset	New Offset
PresAMB	2.9	13.2
TempAMB	0.05	75.05
Temp Filter	0	0

Range 1

Venturi	TE20004
Type	1A
Flow range	6 - 30.00 LPM

Test #	Static Pressure mmHg	Barometric Pressure mmHg	Venturi Qa LPM	DUT Qa LPM	% error %
1	156.85	609.1	5.878	6.588	12.079
2	234.96	609.1	8.855	10.009	13.032
3	305.31	609.1	11.536	13.029	12.942
4	374.67	609.1	14.179	16.007	12.892
5	421.14	609.1	15.950	18.057	13.210
6	459.25	609.1	17.402	19.838	13.998
Maximum allowable error at any flow rate is 0.75%.				Average	13.026
				Result	FAIL

Range 2

Venturi	TE20006
Type	2A
Flow range	1.40 - 6.0 LPM

Test #	Static Pressure mmHg	Barometric Pressure mmHg	Venturi Qa LPM	DUT Qa LPM	% error %
1	167.05	609.6	1.798	2.011	11.846
2	249.30	609.1	2.699	3.037	12.523
3	307.97	609.1	3.341	3.762	12.601
4	363.80	609.1	3.952	4.522	14.423
5	422.33	609.1	4.592	5.223	13.741
6	478.87	609.1	5.211	5.922	13.644
Maximum allowable error at any flow rate is 0.75%.				Average	13.130
				Result	FAIL

Mesa Labs 12100 W. 6th Ave
Lakewood, CO 80228
NIST Traceable Calibration Facility

CERTIFICATE OF CALIBRATION - NIST TRACEABILITY

Calibration Report #: 149645-13012025
TetraCal Serial Number: 149645
Calibration Technician: Elsy Lasky
Date: 13-Jan-2025
Recommended Recal Date: 13-Jan-2026

Critical Venturi Flow Meter

Max Uncertainty = 0.346%

TE20006	1.40 - 6.0 LPM	Calibration Due:	17-Oct-2025
TE20004	6 - 30.00 LPM	Calibration Due:	22-Oct-2025
TE20008	0.40 - 1.20 LPM	Calibration Due:	9-Oct-2025

Room Temperature: +- 0.03°C from -5°C - 70°C **Room Temperature:** 23.10 °C
Brand: Eutechnics

TE Number: TE12312 **Serial Number:** 358921
Std Cal Date: 26-Aug-24 **Std Cal Due Date:** 26-Aug-25

Ambient Temperature (set): 23.0 °C
Aux (filter) Temperature (set): 23.0 °C

Barometric and Absolute Pressure

Vaisala Model PTB330 (50-1100) Digital Accuracy: 0.03371%

TE Number: TE12311 **Serial Number:** H0850001
Std Cal Date: 23-Feb-24 **Std Cal Due Date:** 23-Feb-25

TetraCal:

Barometric pressure (set): 619.00 mmHg

Results of Venturi Calibration

Flow Rate (Q) vs. Pressure Drop (ΔP). Where: Q=Lpm, ΔP= Cm of H2O

Venturi

TE20006	Q1 = 1.22082	ΔP ^	0.515	Overall Uncertainty: 0.35%
TE20004	Q2 = 5.45324	ΔP ^	0.51821	Overall Uncertainty: 0.35%
TE20008	Q3 = 0.22238	ΔP ^	0.50444	Overall Uncertainty: 0.35%

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NIST Traceable Calibration Facility

As Shipped Calibration Data for TetraCal

Unit Type: TetraCal TC12	Date	Technician
Flow Range: 1.20 -30.00 LPM	13Jan2025	Elsy Lasky
Serial No. : 149645	Ambient Pressure:	619.4 mmHg
Firmware Version: 3.41P	Ambient Temperature:	23.1 °C

Range 1: 1.2 - 6.00 LPM

Venturi	TE20006
Type	2A
Flow range	1.40 - 6.0 LPM

Test #	Static Pressure mmHg	Barometric Pressure mmHg	Venturi Qa LPM	DUT Qa LPM	% error %
1	112.16	619.0	1.574	1.578	0.254
2	237.62	619.0	3.375	3.383	0.237
3	421.63	619.0	6.017	6.041	0.399
	Maximum allowable error at any flow rate is 0.75%.			Average	0.297
				Result	PASS

Range 2: 6.00 - 30.0 LPM

Venturi	TE20004
Type	1A
Flow range	6 - 30.00 LPM

Test #	Static Pressure mmHg	Barometric Pressure mmHg	Venturi Qa LPM	DUT Qa LPM	% error %
1	124.02	619.7	6.066	6.031	-0.577
2	366.67	619.7	18.189	18.058	-0.720
3	599.33	619.7	29.812	30.008	0.657
	Maximum allowable error at any flow rate is 0.75%.			Average	-0.213
				Result	PASS

Range 3: NP

Venturi	TE20008
Type	3A
Flow range	0.40 - 1.20 LPM

Test #	Static Pressure mmHg	Barometric Pressure mmHg	Venturi Qa LPM	DUT Qa LPM	% error %
1	235.80	618.0	0.533	0.532	-0.188
2	381.71	618.0	0.864	0.858	-0.694
3	554.71	618.0	1.255	1.250	-0.398
	Maximum allowable error at any flow rate is 0.75%.			Average	-0.427
				Result	PASS

Performed By: Elsy Lasky **Date:** 13-Jan-2025

Approved By: Troy Thacker, QC Inspector **Date:** 14JAN2025

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Mesa Labs 12100 W. 6th Ave Lakewood, CO 80228
NIST Traceable Calibration Facility

As-Found data for TetraCal

Unit Type:	TetraCal TC12	Date	Technician
Flow Range:	1.20 -30.00 LPM	13Jan2025	Elsy Lasky
Serial No. :	149645	Ambient Pressure:	619.4 mmHg
Firmware Version:	3.41P	Ambient Temperature:	23.1 °C

	As Received Temp. Press. Calibration				As Shipped Temp. Press. Calibration			
	DUT	**Standard**	**Diff**	**+/- 1 mmHg**	**DUT**	**Standard**	**Diff**	**+/-1 mmHg**
$Pres_{AMB}$ mmHg	619.7	619.6	0.1	Pass	619	619.4	-0.4	Pass
	DUT	**Standard**	**Diff**	**+/- 1 °C**	**DUT**	**Standard**	**Diff**	**+/- 1 °C**
$Temp_{AMB}$ °C	22.9	22.8	0.1	Pass	23	23.1	-0.1	Pass
$Temp_{Filter}$ °C	22.96	22.8	0.16	Pass	23	23.1	-0.1	Pass

	Offset	New Offset
PresAMB	-46.8	-46.9
TempAMB	0.15	0.05
Temp Filter	0.15	-0.01

Range 1: 1.2 - 6.00 LPM

Venturi	TE20006
Type	2A
Flow range	1.40 - 6.0 LPM

Test #	Static Pressure mmHg	Barometric Pressure mmHg	Venturi Qa LPM	DUT Qa LPM	% error %
1	113.60	619.7	1.592	1.537	-3.455
2	241.39	619.7	3.425	3.310	-3.358
3	435.90	619.7	6.215	6.037	-2.864
	Maximum allowable error at any flow rate is 0.75%.			Average	-3.225
				Result	FAIL

Range 2: 6.00 - 30.0 LPM

Venturi	TE20004
Type	1A
Flow range	6 - 30.00 LPM

Test #	Static Pressure mmHg	Barometric Pressure mmHg	Venturi Qa LPM	DUT Qa LPM	% error %
1	124.02	619.7	6.066	6.031	-0.577
2	366.67	619.7	18.189	18.058	-0.720
3	599.33	619.7	29.812	30.008	0.657
	Maximum allowable error at any flow rate is 0.75%.			Average	-0.213
				Result	PASS

Range 3: NP

Venturi	TE20008
Type	3A
Flow range	0.40 - 1.20 LPM

Test #	Static Pressure mmHg	Barometric Pressure mmHg	Venturi Qa LPM	DUT Qa LPM	% error %
1	243.39	619.7	0.548	0.546	-0.365
2	375.02	619.7	0.845	0.862	2.012
3	526.16	619.7	1.185	1.231	3.882
	Maximum allowable error at any flow rate is 0.75%.			Average	1.843
				Result	FAIL

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Certificate of Calibration

Model Swift 25.0

Serial Number : D16202

Firmware: R0.2.0.5a

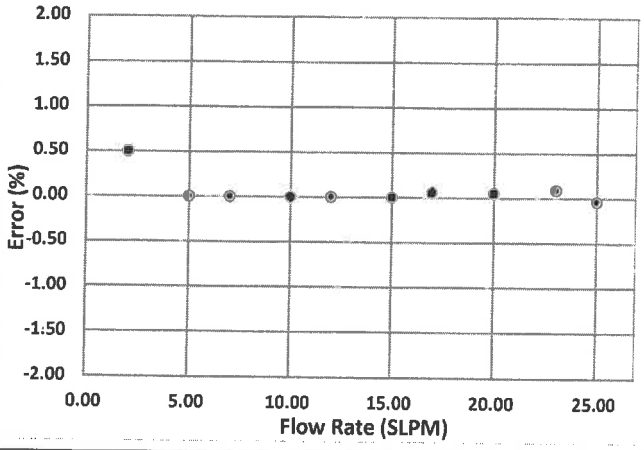
Calibrated Date: 7/15/2024

Calibrated By: A.Schultz

As Left [x] As Found [ ]

Verified Flow Data Points			
Standard (SLPM)	Swift 25.0 (SLPM)	Acceptable Range	In Tolerance
2	2.01	1.98 - 2.02	Pass
5	5.00	4.95 - 5.05	Pass
7	7.00	6.93 - 7.07	Pass
10	10.00	9.90 - 10.10	Pass
12	12.00	11.88 - 12.12	Pass
15	15.00	14.85 - 15.15	Pass
17	17.01	16.83 - 17.17	Pass
20	20.01	19.80 - 20.20	Pass
23	23.02	22.77 - 23.23	Pass
25	24.99	24.75 - 25.75	Pass

Verified Flow Error



Internal Temperature		
Standard (SLPM)	Swift 25.0 (SLPM)	In Tolerance
22.72	22.72	Pass
Temp Accuracy: ± 0.08 °C		

Pressure		
Standard (mbar)	Swift 25.0 (mbar)	In Tolerance
974.2	975.0	Pass
Pressure Accuracy: ± 0.8 mbar		

External Temperature Probe		
Standard (°C)	Swift 25.0 (°C)	In Tolerance
22.84	22.91	Pass
Temp Accuracy: ± 0.19 °C		

RH %		
Standard (RH%)	Swift 25.0 (RH%)	In Tolerance
41	38	Pass
Relative Humidity Accuracy: ± 3 %RH		

Calibration Procedure: Swift 25.0-6100
Recommended Calibration Interval: 12 months from the first day of use

Standards	Model	SN	Cal Due
Air Flow Meter	M-50SLPM-D	432090	2/26/2025
Rotronics	HC2-S3	61082036	9/7/2024
BAROMETRIC PRESSURE	597	Y13061	5/20/2025

This instrument has been tested and calibrated to meet the manufacturer's published specifications at an ISO-9001 certified facility. The standards used for the calibration are on record and traceable to the National Institute of Standards and Technology (NIST) and have accuracies equal to or greater than the instrument being tested. The calibration system complies with MIL-STD-45662A. Complete test records for each unit are maintained by Met One Instruments, Inc. and are available upon request.

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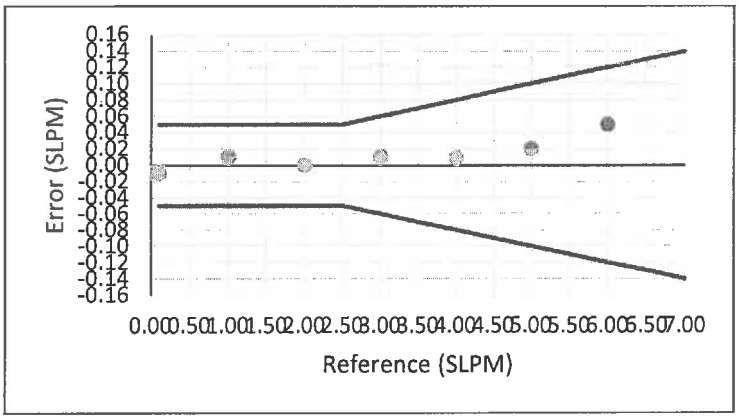
Certificate of Calibration

Model Swift 6.0

Serial Number: C13475
Firmware Version: 83373 Rev 1.0.0
Customer: BISON ENGINEERING INC
As Left [X] As Found [ ]

Calibrated By: A.Schultz
Calibration Date: 9/27/24
Next Calibration Date: 9/27/25

Flow Calibration			
Standard (SLPM)	Swift 6.0 (SLPM)	Acceptable Range	In Tolerance
1.000	1.00	0.95 - 1.05	Yes
2.000	2.00	1.95 - 2.05	Yes
3.000	3.01	2.94 - 3.06	Yes
4.000	4.01	3.92 - 4.08	Yes
5.000	5.00	4.90 - 5.10	Yes
6.000	6.00	5.88 - 6.12	Yes
Flow Accuracy: ±2% of reading or ±0.05 LPM, whichever is greater			



Temperature		
Standard (°C)	Swift (°C)	In Tolerance
21.99	22.9	Yes
Temperature Accuracy: ±1.0°C		

Pressure		
Standard (mbar)	Swift (mbar)	In Tolerance
977.9	977.8	Yes
Pressure Accuracy: ±16 mbar		

Calibration Procedure: Swift 6.0-6100
Recommended Calibration Interval: 12 months from the first day of use

Standards	Manufacturer	Model	SN	Cal Due Date
Temp/Humidity/BP	Met One Instruments	597	Y13061	5/20/2025
Temperature Probe	Rotronics	HC2-S3	GP-438	8/22/2025
Air Flow Meter (Flow & Temp)	Alicat	M-50SLPM-D/5M	432090	7/26/2025

This instrument has been tested and calibrated to meet the manufacturer's published specifications at an ISO-9001 certified facility. The standards used for the calibration are on record and traceable to the National Institute of Standards and Technology (NIST) and have accuracies equal to or greater than the instrument being tested. The calibration system complies with MIL-STD-45662A. Complete test records for each unit are maintained by Met One Instruments, Inc. and are available upon request.