



ANALYTICAL SUMMARY REPORT

September 30, 2022

MT DEQ Water Quality Lead in Schools

PO Box 200901

Helena, MT 59620-0901

Work Order: B22091284

Project Name: MTOPI1116

Energy Laboratories Inc Billings MT received the following 7 samples for MT DEQ Water Quality Lead in Schools on 9/14/2022 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B22091284-001	FX001	09/13/22 15:06	09/14/22	Drinking Water	Metals by ICP/ICPMS, Drinking Water Metals pH check by the Laboratory FIRST Metals Digestion by E200.2
B22091284-002	FX002	09/13/22 15:07	09/14/22	Drinking Water	Same As Above
B22091284-003	FX003	09/13/22 15:10	09/14/22	Drinking Water	Same As Above
B22091284-004	FX004	09/13/22 15:12	09/14/22	Drinking Water	Same As Above
B22091284-005	FX005	09/13/22 15:13	09/14/22	Drinking Water	Same As Above
B22091284-006	FX006	09/13/22 15:15	09/14/22	Drinking Water	Same As Above
B22091284-007	FX007	09/13/22 15:16	09/14/22	Drinking Water	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., 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.

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

Report Approved By:



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: MT DEQ Water Quality Lead in Schools
Project: MTOPI1116
Lab ID: B22091284-001
Client Sample ID: FX001

Report Date: 09/30/22
Collection Date: 09/13/22 15:06
DateReceived: 09/14/22
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Lead	0.002	mg/L		0.001	0.015	E200.8	09/29/22 20:56 / srh

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: MT DEQ Water Quality Lead in Schools
Project: MTOPI1116
Lab ID: B22091284-002
Client Sample ID: FX002

Report Date: 09/30/22
Collection Date: 09/13/22 15:07
DateReceived: 09/14/22
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Lead	0.002	mg/L		0.001	0.015	E200.8	09/29/22 21:01 / srh

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: MT DEQ Water Quality Lead in Schools
Project: MTOPI1116
Lab ID: B22091284-003
Client Sample ID: FX003

Report Date: 09/30/22
Collection Date: 09/13/22 15:10
DateReceived: 09/14/22
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Lead	0.005	mg/L		0.001	0.015	E200.8	09/29/22 21:07 / srh

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: MT DEQ Water Quality Lead in Schools
Project: MTOPI1116
Lab ID: B22091284-004
Client Sample ID: FX004

Report Date: 09/30/22
Collection Date: 09/13/22 15:12
DateReceived: 09/14/22
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Lead	ND	mg/L		0.001	0.015	E200.8	09/29/22 21:13 / srh

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: MT DEQ Water Quality Lead in Schools
Project: MTOPI1116
Lab ID: B22091284-005
Client Sample ID: FX005

Report Date: 09/30/22
Collection Date: 09/13/22 15:13
DateReceived: 09/14/22
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Lead	0.001	mg/L		0.001	0.015	E200.8	09/29/22 21:18 / srh

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: MT DEQ Water Quality Lead in Schools
Project: MTOPI1116
Lab ID: B22091284-006
Client Sample ID: FX006

Report Date: 09/30/22
Collection Date: 09/13/22 15:15
DateReceived: 09/14/22
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Lead	0.001	mg/L		0.001	0.015	E200.8	09/29/22 21:24 / srh

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: MT DEQ Water Quality Lead in Schools
Project: MTOPI1116
Lab ID: B22091284-007
Client Sample ID: FX007

Report Date: 09/30/22
Collection Date: 09/13/22 15:16
DateReceived: 09/14/22
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Lead	0.001	mg/L		0.001	0.015	E200.8	09/29/22 21:30 / srh

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

Client: MT DEQ Water Quality Lead in Schools

Work Order: B22091284

Report Date: 09/30/22

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8							Analytical Run: ICPMS206-B_220928A			
Lab ID: QCS	Initial Calibration Verification Standard									
Lead	0.0520	mg/L	0.010	104	90	110			09/29/22 17:50	
Lab ID: CCV	Continuing Calibration Verification Standard									
Lead	0.0537	mg/L	0.010	107	90	110			09/29/22 20:39	
Method: E200.8							Batch: R388736			
Lab ID: LRB	Method Blank									
Lead	ND	mg/L	0.00006						Run: ICPMS206-B_220928A 09/28/22 14:02	
Lab ID: LFB	Laboratory Fortified Blank									
Lead	0.0504	mg/L	0.010	101	85	115			Run: ICPMS206-B_220928A 09/28/22 14:08	
Lab ID: B22091284-007AMS	Sample Matrix Spike									
Lead	0.0504	mg/L	0.0010	98	70	130			Run: ICPMS206-B_220928A 09/29/22 21:35	
Lab ID: B22091284-007AMSD	Sample Matrix Spike Duplicate									
Lead	0.0517	mg/L	0.0010	101	70	130	2.7	20	Run: ICPMS206-B_220928A 09/29/22 21:41	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



Work Order Receipt Checklist

MT DEQ Water Quality Lead in Schools

B22091284

Login completed by: Leslie S. Cadreau

Date Received: 9/14/2022

Reviewed by: cindy

Received by: lel

Reviewed Date: 9/18/2022

Carrier name: Hand Deliver

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	24.4°C No Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Standard Reporting Procedures:

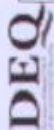
Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

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.

Contact and Corrective Action Comments:

The samples for Lead were preserved in the laboratory to pH <2 with 1.8 mL of nitric acid per 250mL upon receipt and within the EPA recommended 14 day holding time. In accordance with the Safe Drinking Water Act, these samples must be held for 16 hours prior to analysis.



CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

COC No:

Total No. of Coolers 1

Site ID MTOPI1116		Turnaround Time 10 Business Days									
Site Address 119 Easton Avenue, Fishtail, MT		Lab Name ENERGY-BIL									
Project Number MTOPI1116_LIS_INITIAL_010120		Lab PM Shari Endy									
Project Name Fishtail School		Lab Phone/Fax 406-860-4289									
Project Manager Greg Montgomery		Shipping Company 0912									
Project Manager Email Address Gregory.Montgomery@mt.gov		Program Name Lead in Schools									
Sampler cb0169		Shipping Date 09/14/2022									
Items No.	Sample ID	Sample Location	Matrix	Sample Method	Sample Date Time	# of Containers	Comments Lab I.D.	Analysis	Filtered	Preserve	LEAD IN DRINKING WATER
	1116_FX001_20220913	FX001	DW	N	Grab	09/13/2022 15:06	1				X
	1116_FX002_20220913	FX002	DW	N	Grab	09/13/2022 15:07	1				X
	1116_FX003_20220913	FX003	DW	N	Grab	09/13/2022 15:10	1				X
	1116_FX004_20220913	FX004	DW	N	Grab	09/13/2022 15:12	1				X
	1116_FX005_20220913	FX005	DW	N	Grab	09/13/2022 15:13	1				X
	1116_FX006_20220913	FX006	DW	N	Grab	09/13/2022 15:15	1				X
	1116_FX007_20220913	FX007	DW	N	Grab	09/13/2022 15:16	1				X

B22091284

Additional Comments/Special Instructions: In addition to school, please email LIS EQEDD EDD to deqlead inschools@mt.gov.		RELINQUISHED BY / AFFILIATION <i>Abbu Sofing</i>	Date Time 9:14:23 12:00	ACCEPTED BY / AFFILIATION <i>Lyndi Refrome</i>	Date Time 9/14/22 12:00
Email Report To : alofing.fishtailnyschool@gmail.com		SHIPPING METHOD: (mark as appropriate)		SAMPLER NAME AND SIGNATURE	
Email Invoice To : deqleadinschools@mt.gov					