

## ANALYTICAL SUMMARY REPORT

May 08, 2023

Water and Environmental Technologies 480 E Park St Ste 200 Butte, MT 59701-1923

Work Order: H23040619

Project Name: BSBPWM041

Energy Laboratories Inc Helena MT received the following 4 samples for Water and Environmental Technologies on 4/25/2023 for analysis.

Lab ID	Client Sample ID	Collect Date R	eceive Date	Matrix	Test
H23040619-001	001A	04/25/23 10:50	04/25/23	Aqueous	Metals by ICP/ICPMS, Tot. Rec. Chemical Oxygen Demand Oil & Grease, Gravimetric Nitrogen, Nitrate + Nitrite Nitrogen, Total Kjeldahl Nitrogen, Total (TKN+NO3+NO2) pH Metals Digestion by E200.2 Preparation for COD testing HACH 8000 E365.1 Digestion, Total P TKN Prep Phosphorus, Total Solids, Total Suspended
H23040619-002	002A	04/25/23 10:30	04/25/23	Aqueous	Same As Above
H23040619-003	001B	04/25/23 12:00	04/25/23	Aqueous	Same As Above
H23040619-004	002B	04/25/23 11:20	04/25/23	Aqueous	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, 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:

<b>ENERGY</b> LABORATORIES	Trust our People. Trust our Data. www.energylab.com	Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711
CLIENT:	Water and Environmental Technologies	<b>D</b> ( <b>D</b> ( <b>d</b> ( <b>d</b> ))
Project:	BSBPWM041	<b>Report Date:</b> 05/08/23
Work Order:	H23040619	CASE NARRATIVE

Tests associated with analyst identified as ELI-G were subcontracted to Energy Laboratories, 400 W. Boxelder Rd., Gillette, WY, EPA Number WY00006.



Prepared by Helena, MT Branch

Client:	Water and Environmental Technologies	Report Date:	05/08/23
Project:	BSBPWM041	Collection Date:	04/25/23 10:50
Lab ID:	H23040619-001	DateReceived:	04/25/23
Client Sample ID:	001A	Matrix:	Aqueous

				MCL/	
Analyses	Result Units	Qualifiers	RL	QCL Method	Analysis Date / By
PHYSICAL PROPERTIES					
рН	8.3 s.u.	Н	0.1	A4500-H B	04/26/23 11:43 / ams
pH Measurement Temp	14.3 °C			A4500-H B	04/26/23 11:43 / ams
Solids, Total Suspended TSS @ 105 C	358 mg/L	D	50	A2540 D	04/28/23 09:47 / ams
AGGREGATE ORGANICS					
Oxygen Demand, Chemical (COD)	137 mg/L	D	10	E410.4	04/28/23 11:20 / ams
NUTRIENTS					
Nitrogen, Kjeldahl, Total as N	1.7 mg/L		0.5	E351.2	04/28/23 14:58 / JAR
Nitrogen, Nitrate+Nitrite as N	0.14 mg/L		0.01	E353.2	04/27/23 15:39 / JAR
Nitrogen, Total	1.8 mg/L		0.5	Calculation	05/04/23 14:51 / tkj
Phosphorus, Total as P	0.67 mg/L		0.01	E365.1	05/02/23 15:53 / JAR
METALS, TOTAL RECOVERABLE					
Copper	0.226 mg/L		0.005	E200.8	04/28/23 17:54 / dck
Lead	0.079 mg/L		0.001	E200.8	04/28/23 17:54 / dck
Zinc	0.35 mg/L		0.01	E200.8	04/28/23 17:54 / dck
ORGANIC CHARACTERISTICS					
Oil & Grease (HEM)	5 mg/L		1	E1664A	04/28/23 09:19 / eli-g

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit

D - Reporting Limit (RL) increased due to sample matrix

MCL - Maximum Contaminant Level

ND - Not detected at the Reporting Limit (RL)



Prepared by Helena, MT Branch

Client:	Water and Environmental Technologies	Report Date:	05/08/23
Project:	BSBPWM041	Collection Date:	04/25/23 10:30
Lab ID:	H23040619-002	DateReceived:	04/25/23
Client Sample ID:	002A	Matrix:	Aqueous

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
рН	8.0	s.u.	н	0.1		A4500-H B	04/26/23 11:46 / ams
pH Measurement Temp	12.5	°C				A4500-H B	04/26/23 11:46 / ams
Solids, Total Suspended TSS @ 105 C	411	mg/L	D	70		A2540 D	04/28/23 09:47 / ams
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	162	mg/L	D	10		E410.4	04/28/23 11:20 / ams
NUTRIENTS							
Nitrogen, Kjeldahl, Total as N	1.8	mg/L		0.5		E351.2	04/28/23 14:59 / JAR
Nitrogen, Nitrate+Nitrite as N	0.31	mg/L		0.01		E353.2	04/27/23 15:40 / JAR
Nitrogen, Total	2.1	mg/L		0.5		Calculation	05/04/23 14:51 / tkj
Phosphorus, Total as P	0.54	mg/L		0.01		E365.1	05/02/23 15:54 / JAR
METALS, TOTAL RECOVERABLE							
Copper	0.175	mg/L		0.005		E200.8	04/28/23 17:57 / dck
Lead	0.051	mg/L		0.001		E200.8	04/28/23 17:57 / dck
Zinc		mg/L		0.01		E200.8	04/28/23 17:57 / dck
ORGANIC CHARACTERISTICS							
Oil & Grease (HEM)	6	mg/L		1		E1664A	04/28/23 09:19 / eli-g

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Prepared by Helena, MT Branch

Client:	Water and Environmental Technologies	Report Date:	05/08/23
Project:	BSBPWM041	Collection Date:	04/25/23 12:00
Lab ID:	H23040619-003	DateReceived:	04/25/23
Client Sample ID:	001B	Matrix:	Aqueous

	Decult Unit	o Ouslitions	ы	MCL/ QCL Method	Analusia Data / Du
Analyses	Result Unit	s Qualifiers	RL	QCL Method	Analysis Date / By
PHYSICAL PROPERTIES					
ЬН	8.2 s.u.	н	0.1	A4500-H B	04/26/23 11:48 / ams
oH Measurement Temp	12.8 °C			A4500-H B	04/26/23 11:48 / ams
Solids, Total Suspended TSS @ 105 C	208 mg/	L D	60	A2540 D	04/28/23 09:48 / ams
AGGREGATE ORGANICS					
Dxygen Demand, Chemical (COD)	78 mg/	L D	10	E410.4	04/28/23 11:20 / ams
NUTRIENTS					
Nitrogen, Kjeldahl, Total as N	1.3 mg/	L	0.5	E351.2	04/28/23 15:14 / JAR
Nitrogen, Nitrate+Nitrite as N	0.19 mg/	L	0.01	E353.2	04/27/23 15:41 / JAR
Nitrogen, Total	1.5 mg/	L	0.5	Calculation	05/04/23 14:51 / tkj
Phosphorus, Total as P	0.43 mg/	L	0.01	E365.1	05/02/23 14:48 / JAR
METALS, TOTAL RECOVERABLE					
Copper	0.108 mg/	L	0.005	E200.8	04/28/23 17:59 / dck
Lead	0.143 mg/	L	0.001	E200.8	04/28/23 17:59 / dck
Zinc	0.48 mg/	L	0.01	E200.8	04/28/23 17:59 / dck
DRGANIC CHARACTERISTICS					
Dil & Grease (HEM)	3 mg/	L	1	E1664A	04/28/23 09:19 / eli-g

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Prepared by Helena, MT Branch

Client:	Water and Environmental Technologies	Report Date:	05/08/23
Project:	BSBPWM041	Collection Date:	04/25/23 11:20
Lab ID:	H23040619-004	DateReceived:	04/25/23
Client Sample ID:	002B	Matrix:	Aqueous

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
рН	8.5	s.u.	н	0.1		A4500-H B	04/26/23 11:50 / ams
pH Measurement Temp	13.9	°C				A4500-H B	04/26/23 11:50 / ams
Solids, Total Suspended TSS @ 105 C	307	mg/L	D	80		A2540 D	04/28/23 09:48 / ams
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	121	mg/L	D	10		E410.4	04/28/23 11:21 / ams
NUTRIENTS							
Nitrogen, Kjeldahl, Total as N	1.6	mg/L		0.5		E351.2	04/28/23 15:16 / JAR
Nitrogen, Nitrate+Nitrite as N	0.09	mg/L		0.01		E353.2	04/27/23 15:45 / JAR
Nitrogen, Total	1.7	mg/L		0.5		Calculation	05/04/23 14:51 / tkj
Phosphorus, Total as P	0.63	mg/L		0.01		E365.1	05/02/23 15:55 / JAR
METALS, TOTAL RECOVERABLE							
Copper	0.231	mg/L		0.005		E200.8	04/28/23 18:02 / dck
Lead	0.067	mg/L		0.001		E200.8	04/28/23 18:02 / dck
Zinc	0.33	mg/L		0.01		E200.8	04/28/23 18:02 / dck
ORGANIC CHARACTERISTICS							
Oil & Grease (HEM)	5	mg/L		1		E1664A	04/28/23 09:19 / eli-g

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit

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ND - Not detected at the Reporting Limit (RL)



Client:	Water and Environmental	Technologies		Work Order:	H2304	0619	Report	Date:	05/08/23	
Analyte	Cour	nt Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	A2540 D								Batch: TSS	S230428A
Lab ID:	MB-1_230428	Method Blank				Run: ACCU-	-124 (14410200)	_23042	04/28	/23 09:46
Solids, To	otal Suspended TSS @ 105 C	ND	mg/L	0.3						
Lab ID:	H23040613-001A DUP	Sample Duplica	ate			Run: ACCU-	-124 (14410200) <u>-</u>	_23042	04/28	/23 09:47
Solids, To	otal Suspended TSS @ 105 C	137	mg/L	83				4.8	10	
Lab ID:	LCS-2_230428	Laboratory Con	trol Sample	9		Run: ACCU-	-124 (14410200) <u>-</u>	_23042	04/28	/23 15:59
Solids, To	otal Suspended TSS @ 105 C	81.0	mg/L	25	81	80	120			



Client:	Water and Environm	ental Teo	hnologies		Work Order:	H2304	0619	Repo	ort Date:	05/08/23	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	А4500-Н В							Analytic	al Run: P	HSC_101-H	_230426A
Lab ID:	рН 7	2 Init	ial Calibratio	on Verifica	ation Standard					04/26	/23 08:26
pН			7.0	s.u.	0.1	99	98	102			
pH Meas	urement Temp		19.1	°C			0	0			
Lab ID:	CCV - pH 7	2 Co	ntinuing Cal	ibration V	erification Standar	d				04/26	/23 10:59
pН			7.0	s.u.	0.1	99	98	102			
pH Meas	urement Temp		19.6	°C			0	0			
Method:	А4500-Н В									Batch	R184013
Lab ID:	H23040619-001ADUF	2 Sa	mple Duplica	ate			Run: PHSC	_101-H_230420	6A	04/26	/23 11:45
pН			8.3	s.u.	0.1				0.7	3	
pH Meas	urement Temp		13.9	°C							



Prepared by Helena, MT Branch

Client:	Water and Environm	nental Tech	nologies		Work Order:	H2304	0619	Repo	ort Date:	05/08/23	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E1664A									Batch: G	_230428A
Lab ID:	MBLK2304280834	Meth	od Blank				Run: SUB-0	G276834		04/28	/23 09:14
Oil & Gre	ease (HEM)		ND	mg/L	0.8						
Lab ID:	LCS2304280834	Labo	oratory Cor	ntrol Sample	9		Run: SUB-0	G276834		04/28	8/23 09:14
Oil & Gre	ease (HEM)		37	mg/L	5.0	93	78	114			
Lab ID:	LCSD2304280834	Labo	oratory Cor	ntrol Sample	e Duplicate		Run: SUB-0	G276834		04/28	8/23 09:14
Oil & Gre	ease (HEM)		37	mg/L	5.0	92	78	114	1.4	18	
Lab ID:	G23040475-001GMS	Sam	ple Matrix	Spike			Run: SUB-0	G276834		04/28	/23 09:17
Oil & Gre	ease (HEM)		16	mg/L	5.0	34	78	114			S

### **Qualifiers:**

RL - Analyte Reporting Limit

S - Spike recovery outside of advisory limits

ND - Not detected at the Reporting Limit (RL)



Client:	Water and Environme	ental <sup>-</sup>	Technologies		Work Order:	H2304	10619	Report	Date	: 05/08/23	
Analyte		Coun	t Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.8									Bat	ch: 66233
Lab ID:	MB-66233	3	Method Blank				Run: ICPM	S205-H_230427B		04/27	/23 18:44
Copper			ND	mg/L	0.0003						
Lead			ND	mg/L	0.0001						
Zinc			ND	mg/L	0.001						
Lab ID:	LCS-66233	3	Laboratory Co	ntrol Samp	le		Run: ICPM	S205-H_230427B		04/27	/23 19:00
Copper			0.512	mg/L	0.0050	102	85	115			
Lead			0.518	mg/L	0.0010	104	85	115			
Zinc			0.515	mg/L	0.010	103	85	115			
Lab ID:	H23040640-001AMS3	<b>3</b> 3	Sample Matrix	Spike			Run: ICPM	S205-H_230427B		04/27	/23 19:02
Copper			0.495	mg/L	0.0050	99	70	130			
Lead			0.518	mg/L	0.0010	104	70	130			
Zinc			0.483	mg/L	0.010	96	70	130			
Lab ID:	H23040640-001AMS	<b>)</b> 3	Sample Matrix	Spike Dup	licate		Run: ICPM	S205-H_230427B		04/27	/23 19:05
Copper			0.504	mg/L	0.0050	101	70	130	1.7	20	
Lead			0.518	mg/L	0.0010	104	70	130	0.1	20	
Zinc			0.488	mg/L	0.010	97	70	130	1.0	20	
Method:	E200.8							Analytical	Run: I	CPMS205-H	_230428A
Lab ID:	ICV	3	Initial Calibration	on Verificat	tion Standard					04/28	/23 12:33
Copper			0.0584	mg/L	0.010	97	90	110			
Lead			0.0575	mg/L	0.010	96	90	110			
Zinc			0.0582	mg/L	0.010	97	90	110			
Lab ID:	CCV	3	Continuing Cal	libration Ve	erification Standar	rd				04/28	/23 17:44
Copper			0.0502	mg/L	0.010	100	90	110			
Lead			0.0521	mg/L	0.010	104	90	110			
Zinc			0.0531	mg/L	0.010	106	90	110			
Method:	E200.8									Bat	ch: 66233
Lab ID:	MB-66233	3	Method Blank				Run: ICPM	S205-H_230428A		04/28	/23 17:49
Copper			ND	mg/L	0.0003						
Lead			ND	mg/L	0.0001						
Zinc			ND	mg/L	0.001						



Client:	Water and Environm	ental Tech	nnologies		Work Order:	H2304	0619	Report	Date:	05/08/23	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E351.2							Analytical	Run: S	EAL AA500_	_230428B
Lab ID:	ICV	Initia	al Calibratio	on Verifica	tion Standard					04/28/	23 14:25
Nitrogen,	Kjeldahl, Total as N		9.80	mg/L	0.50	98	90	110			
Lab ID:	CCV	Con	tinuing Cal	ibration Ve	erification Standa	rd				04/28/	23 15:01
Nitrogen,	Kjeldahl, Total as N		10.2	mg/L	0.50	102	90	110			
Method:	E351.2									Bate	ch: 66238
Lab ID:	MB-66238	Met	hod Blank				Run: SEAL	AA500_230428B		04/28/	23 14:29
Nitrogen,	Kjeldahl, Total as N		ND	mg/L	0.1						
Lab ID:	LCS-66238	Lab	oratory Cor	ntrol Samp	le		Run: SEAL	AA500_230428B		04/28/	23 14:32
Nitrogen,	Kjeldahl, Total as N		9.25	mg/L	0.50	92	90	110			
Lab ID:	H23040591-001Dms	San	nple Matrix	Spike			Run: SEAL	AA500_230428B		04/28/	23 14:47
Nitrogen,	Kjeldahl, Total as N		10.4	mg/L	0.50	100	90	110			
Lab ID:	H23040591-001Dms	d San	nple Matrix	Spike Dup	olicate		Run: SEAL	AA500_230428B		04/28/	23 14:49
Nitrogen,	Kjeldahl, Total as N		10.2	mg/L	0.50	98	90	110	1.8	10	



Client: Water and E	nvironmental Te	echnologies		Work Order:	H2304	10619	Repor	t Date:	05/08/23	
Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2							Analyti	cal Run	FIA203-HE	_230427B
Lab ID: ICV	Ir	nitial Calibrati	on Verificati	ion Standard					04/27/	/23 14:01
Nitrogen, Nitrate+Nitrite	as N	1.01	mg/L	0.010	101	90	110			
Lab ID: CCV	C	continuing Ca	libration Ve	rification Standa	ď				04/27/	/23 15:26
Nitrogen, Nitrate+Nitrite	as N	0.521	mg/L	0.010	104	90	110			
Lab ID: CCV	C	continuing Ca	ibration Ve	rification Standa	ď				04/27/	/23 15:42
Nitrogen, Nitrate+Nitrite	as N	0.503	mg/L	0.010	101	90	110			
Method: E353.2									Batch:	R184085
Lab ID: MBLK	Ν	lethod Blank				Run: FIA20	3-HE_230427B		04/27	/23 14:02
Nitrogen, Nitrate+Nitrite	as N	ND	mg/L	0.008						
Lab ID: LFB	L	aboratory For	tified Blank			Run: FIA20	3-HE_230427B		04/27/	/23 14:03
Nitrogen, Nitrate+Nitrite	as N	0.993	mg/L	0.011	99	90	110			
Lab ID: H23040608-	001FMS S	ample Matrix	Spike			Run: FIA20	3-HE_230427B		04/27/	/23 15:34
Nitrogen, Nitrate+Nitrite	as N	1.05	mg/L	0.011	104	90	110			
Lab ID: H23040608-	001FMSD S	ample Matrix	Spike Dupl	icate		Run: FIA20	3-HE_230427B		04/27/	/23 15:35
Nitrogen, Nitrate+Nitrite	as N	1.03	mg/L	0.011	102	90	110	1.9	10	
Lab ID: H23040625-	001 <b>BMS</b> S	ample Matrix	Spike			Run: FIA20	3-HE_230427B		04/27/	/23 15:47
Nitrogen, Nitrate+Nitrite	as N	1.04	mg/L	0.011	104	90	110			
Lab ID: H23040625-	001BMSD S	ample Matrix	Spike Dupl	icate		Run: FIA20	3-HE_230427B		04/27/	/23 15:48
Nitrogen, Nitrate+Nitrite	as N	1.03	mg/L	0.011	103	90	110	0.8	10	



Client:	Water and Environm	ental Technolog	ies	Work Order:	H2304	10619	Report	Date:	05/08/23	
Analyte		Count Resu	lt Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E365.1						Analytical	Run: SE	AL AA500_	_230502A
Lab ID:	ICV	Initial Calib	ration Verifica	ation Standard					05/02/	23 13:52
Phospho	rus, Total as P	0.25	58 mg/L	0.010	103	90	110			
Lab ID:	CCV	Continuing	Calibration V	erification Standa	ď				05/02/	23 14:35
Phospho	rus, Total as P	0.099	96 mg/L	0.010	100	90	110			
Lab ID:	CCV	Continuing	Calibration V	erification Standa	ď				05/02/	23 15:49
Phospho	rus, Total as P	0.10	)5 mg/L	0.010	105	90	110			
Method:	E365.1								Bate	ch: 66280
Lab ID:	LCS-66280	Laboratory	Control Sam	ple		Run: SEAL	AA500_230502A		05/02/	23 13:58
Phospho	rus, Total as P	0.42	23 mg/L	0.010	106	90	110			
Lab ID:	MB-66280	Method Bla	ink			Run: SEAL	AA500_230502A		05/02/	23 14:07
Phospho	rus, Total as P	N	D mg/L	0.001						
Lab ID:	H23040608-001Dms	Sample Ma	trix Spike			Run: SEAL	AA500_230502A		05/02/	23 14:41
Phospho	rus, Total as P	0.22	26 mg/L	0.010	110	90	110			
Lab ID:	H23040608-001Dms	d Sample Ma	trix Spike Du	plicate		Run: SEAL	AA500_230502A		05/02/	23 14:42
Phospho	rus, Total as P	0.22	25 mg/L	0.010	110	90	110	0.4	20	
Lab ID:	H23040653-001Bms	Sample Ma	trix Spike			Run: SEAL	AA500_230502A		05/02/	23 15:01
Phospho	rus, Total as P	0.33	89 mg/L	0.010	109	90	110			
Lab ID:	H23040653-001Bms	d Sample Ma	trix Spike Du	plicate		Run: SEAL	AA500_230502A		05/02/	23 15:02
Phospho	rus, Total as P	0.34	l0 mg/L	0.010	110	90	110	0.4	20	



Prepared by Helena, MT Branch

Client:	Water and Environme	ental Tec	hnologies		Work Order:	H2304	0619	Repo	ort Date:	: 05/08/23	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E410.4							Analytica	al Run: G	ENESYS 20	_230428C
Lab ID:	CCV	Co	ntinuing Cal	ibration Ve	rification Standar	d				04/28	/23 11:20
Oxygen E	Demand, Chemical (COD	)	53.5	mg/L	5.0	107	90	110			
Method:	E410.4									Bat	ch: 66246
Lab ID:	MB-66246	Me	thod Blank				Run: GENE	SYS 20_23042	8C	04/28	/23 11:20
Oxygen [	Demand, Chemical (COD	)	ND	mg/L	4						
Lab ID:	LCS-66246	Lat	oratory Cor	ntrol Sampl	e		Run: GENE	SYS 20_23042	8C	04/28	/23 11:20
Oxygen E	Demand, Chemical (COD	)	54.1	mg/L	5.0	90	90	110			
Lab ID:	H23040619-003CMS	Sa	mple Matrix	Spike			Run: GENE	SYS 20_23042	8C	04/28	/23 11:20
Oxygen E	Demand, Chemical (COD	)	176	mg/L	10	82	90	110			S
Lab ID:	H23040619-003CMSI	) Sai	mple Matrix	Spike Dup	licate		Run: GENE	SYS 20_23042	8C	04/28	/23 11:20
Oxygen E	Demand, Chemical (COD	)	177	mg/L	10	83	90	110	0.8	20	S

### **Qualifiers:**

RL - Analyte Reporting Limit

S - Spike recovery outside of advisory limits

ND - Not detected at the Reporting Limit (RL)



# Work Order Receipt Checklist

# Water and Environmental Technologies

Login completed by:	Rebecca A. Tooke		Date R	eceived: 4/25/2023
Reviewed by:	wjohnson		Rece	eived by: wjj
Reviewed Date:	4/26/2023		Carrie	er name: Hand Deliver
Shipping container/cooler in	good condition?	Yes 🗹	No 🗌	Not Present
Custody seals intact on all sh	hipping container(s)/cooler(s)?	Yes 🗹	No 🗌	Not Present
Custody seals intact on all sa	ample bottles?	Yes 🗌	No 🗌	Not Present 🗸
Chain of custody present?		Yes 🗹	No 🗌	
Chain of custody signed whe	en 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 h (Exclude analyses that are co such as pH, DO, Res CI, Su	onsidered field parameters	Yes 🗹	No 🗌	
Temp Blank received in all sl	nipping container(s)/cooler(s)?	Yes 🗹	No 🗌	Not Applicable
Container/Temp Blank tempe	erature:	3.0°C On Ice - From	m Field	
Containers requiring zero hea bubble that is <6mm (1/4").	adspace have no headspace or	Yes	No 🗌 🛛 I	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.

### **Contact and Corrective Action Comments:**

pH is listed on Bottle Order but not on COC. Emailed to confirm pH is needed and metals should be total recoverable. Per email pH is wanted and metals are total recoverable. 4/26/23 rt



# Chain of Custody & Analytical Request Record

www.energylab.com

ELI-COC-06/08 v.2 Cur by Zn ont 1300.718, ONUS MUST be contacted prior to RUSH sample submittal for All turnaround times are standard unless marked as charges and scheduling -See Instructions Page Energy Laboratories ELI LAB ID Lebotatory Use Only d, H23040619 Receipt Number (cash/check only) RUSH ŝ, in ceftain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. Page , Andre ature Sugnanur Comments TAT Har **See Attached** 71 E.C. Salinteo This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report. Amount Date/Time Analysis Requested 900 2 J □ LEVEL IV □ NELAC □ EDD/EDT (contact fabbratory) □ Other\_ C water enterion Received by Laboratory (print) X Report Information (if different than Account Information) 49 VL spatan DT/DE (HYD1) =) 1 E Payment Type th Check Druse 8 × 1:0 (E303:1) ð 401 X 8586-666-Cash Received by (print) (h.O 14 007 X 9 dEmail g ONLY 351.21 E 123.2) 3 Stephen いして NT42L/EON+SONINYL × LABORATORY USE Receive Report UHard Copy Scol 8 8 8 7 oonse t 406 SSL × Matrix (See Codes Above) Company/Name Temp Blank (Y)N Mailing Address City, State, Zp Matrix Codes B - Bioassay S - Soils' V - Vegetation 3 DW - Orhiding Water W- Water O - Other Special Repor A- Ar Contact Number of Containers Phone Email 5 Receipt Temp Signatun Per 23 11:52 3 3.0 TEmail ON D Time 10501 Sampler Phone 706 312-977 1030 000 1120 Date/Time MitNING CLIENTS, please indicate sample type. "If ore has been processed or refined, call before sending. C Bunroduct 11 (e)2 material C Unprocessed ore (NOT ground or refined)\* Collection ILERY EPA/State Compliance XYes Receive Report DHard Copy Hasha3 Date Albad V N Accuration of wateress tech.com Bottle BSB PWMOY, 45 Custody Seals 201 Lab provided preservatives were used X Yes C No Account Information (Billing information) Mirte Vulla > -E Pich Sample Identification D. LA Wigston 406-782-5220 Relinquished by (print) BEmail のくちんとし 41 Quote Cooler ID(s) Project Name PWSID, Permit, etc. frust our People. Trust our Data in Z Receive Invoice CHard Copy 0× 50 **Project Information** 5 Sample Origin State 3 POLA AGOC 00100 600 Company/Name **Mailing Address** Record MUST Purchase Order City, State, Zip Sampler Name be signed Shipped Custody 121 Contact Phone Email 9 9 00 6 5



# ANALYTICAL SUMMARY REPORT

July 11, 2023

Water and Environmental Technologies 480 E Park St Ste 200 Butte, MT 59701-1923

Work Order: H23061025

Project Name: BSBPWM041

Energy Laboratories Inc Helena MT received the following 4 samples for Water and Environmental Technologies on 6/26/2023 for analysis.

Lab ID	Client Sample ID	Collect Date R	Receive Date	Matrix	Test
H23061025-001	001A	06/23/23 17:40	06/26/23	Aqueous	Metals by ICP/ICPMS, Total Chemical Oxygen Demand Oil & Grease, Gravimetric Nitrogen, Nitrate + Nitrite Nitrogen, Total Kjeldahl Nitrogen, Total (TKN+NO3+NO2) pH Metals Digestion by E200.2 Preparation for COD testing HACH 8000 E365.1 Digestion, Total P TKN Prep Phosphorus, Total Solids, Total Suspended
H23061025-002	002A	06/23/23 17:55	06/26/23	Aqueous	Same As Above
H23061025-003	001B	06/23/23 17:10	06/26/23	Aqueous	Same As Above
H23061025-004	002B	06/23/23 17:25	06/26/23	Aqueous	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, 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:

<b>ENERGY</b>	
LABORATORIES	

BSBPWM041

H23061025

**CLIENT:** 

Project:

Work Order:

Water and Environmental Technologies

Report Date: 07/11/23

# **CASE NARRATIVE**

Tests associated with analyst identified as ELI-G were subcontracted to Energy Laboratories, 400 W. Boxelder Rd., Gillette, WY, EPA Number WY00006.



Prepared by Helena, MT Branch

Client:	Water and Environmental Technologies	Report Date:	07/11/23
Project:	BSBPWM041	Collection Date:	06/23/23 17:40
Lab ID:	H23061025-001	DateReceived:	06/26/23
Client Sample ID:	001A	Matrix:	Aqueous

			o		MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
рН	7.6	s.u.	н	0.1		A4500-H B	06/27/23 11:30 / SRW
pH Measurement Temp	14.5	°C				A4500-H B	06/27/23 11:30 / SRW
Solids, Total Suspended TSS @ 105 C	293	mg/L		40		A2540 D	06/27/23 14:41 / SRW
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	87	mg/L		5		E410.4	06/30/23 09:07 / ams
NUTRIENTS							
Nitrogen, Kjeldahl, Total as N	2.2	mg/L		0.5		E351.2	07/07/23 15:03 / JAR
Nitrogen, Nitrate+Nitrite as N	0.41	mg/L		0.01		E353.2	07/06/23 16:33 / SRW
Nitrogen, Total	2.6	mg/L		0.5		Calculation	07/10/23 08:52 / rrs
Phosphorus, Total as P	0.85	mg/L		0.01		E365.1	07/10/23 15:49 / JAR
METALS, TOTAL							
Copper	0.216	mg/L		0.005		E200.8	07/09/23 16:16 / dck
Lead	0.078	mg/L		0.001		E200.8	07/09/23 16:16 / dck
Zinc	0.29	mg/L		0.01		E200.8	07/09/23 16:16 / dck
ORGANIC CHARACTERISTICS							
Oil & Grease (HEM)	2	mg/L		1		E1664A	07/10/23 08:52 / eli-g



Prepared by Helena, MT Branch

Client:	Water and Environmental Technologies	Report Date:	07/11/23
Project:	BSBPWM041	Collection Date:	06/23/23 17:55
Lab ID:	H23061025-002	DateReceived:	06/26/23
Client Sample ID:	002A	Matrix:	Aqueous

Analyzan	Result	Unito	Qualifiers	RL	MCL/ QCL	Method	Analysis Data / By
Analyses	Result	Units	Quaimers	RL	QUL	wethod	Analysis Date / By
PHYSICAL PROPERTIES							
рН	7.2	s.u.	н	0.1		A4500-H B	06/27/23 11:32 / SRW
pH Measurement Temp	14.9	°C				A4500-H B	06/27/23 11:32 / SRW
Solids, Total Suspended TSS @ 105 C	184	mg/L		40		A2540 D	06/27/23 14:41 / SRW
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	78	mg/L		5		E410.4	06/30/23 09:07 / ams
NUTRIENTS							
Nitrogen, Kjeldahl, Total as N	1.6	mg/L		0.5		E351.2	07/07/23 15:08 / JAR
Nitrogen, Nitrate+Nitrite as N	0.85	mg/L		0.01		E353.2	07/06/23 16:36 / SRW
Nitrogen, Total	2.5	mg/L		0.5		Calculation	07/10/23 08:52 / rrs
Phosphorus, Total as P	0.48	mg/L		0.01		E365.1	07/10/23 15:50 / JAR
METALS, TOTAL							
Copper	0.142	mg/L		0.005		E200.8	07/09/23 16:19 / dck
Lead	0.038	mg/L		0.001		E200.8	07/09/23 16:19 / dck
Zinc	0.16	mg/L		0.01		E200.8	07/09/23 16:19 / dck
ORGANIC CHARACTERISTICS							
Oil & Grease (HEM)	2	mg/L		1		E1664A	07/10/23 08:52 / eli-g

Report Definitions:



Prepared by Helena, MT Branch

Client:	Water and Environmental Technologies	Report Date:	07/11/23
Project:	BSBPWM041	Collection Date:	06/23/23 17:10
Lab ID:	H23061025-003	DateReceived:	06/26/23
Client Sample ID:	001B	Matrix:	Aqueous

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
рН	7.0	s.u.	н	0.1		A4500-H B	06/27/23 11:34 / SRW
pH Measurement Temp	15.3	°C				A4500-H B	06/27/23 11:34 / SRW
Solids, Total Suspended TSS @ 105 C	254	mg/L		50		A2540 D	06/27/23 14:41 / SRW
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	174	mg/L		50		E410.4	06/30/23 09:07 / ams
NUTRIENTS							
Nitrogen, Kjeldahl, Total as N	2.9	mg/L		0.5		E351.2	07/07/23 15:12 / JAR
Nitrogen, Nitrate+Nitrite as N	0.48	mg/L		0.01		E353.2	07/06/23 16:37 / SRW
Nitrogen, Total	3.3	mg/L		0.5		Calculation	07/10/23 08:52 / rrs
Phosphorus, Total as P	0.69	mg/L		0.01		E365.1	07/10/23 15:51 / JAR
METALS, TOTAL							
Copper	0.132	mg/L		0.005		E200.8	07/09/23 16:23 / dck
Lead	0.086	mg/L		0.001		E200.8	07/09/23 16:23 / dck
Zinc	0.44	mg/L		0.01		E200.8	07/09/23 16:23 / dck
ORGANIC CHARACTERISTICS							
Oil & Grease (HEM)	2	mg/L		1		E1664A	07/10/23 08:53 / eli-g

Report Definitions:



Prepared by Helena, MT Branch

Client:	Water and Environmental Technologies	Report Date:	07/11/23
Project:	BSBPWM041	Collection Date:	06/23/23 17:25
Lab ID:	H23061025-004	DateReceived:	06/26/23
Client Sample ID:	002B	Matrix:	Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
		•	444				/
PHYSICAL PROPERTIES							
рН	8.2	s.u.	н	0.1		A4500-H B	06/27/23 11:36 / SRW
pH Measurement Temp	15.6	°C				A4500-H B	06/27/23 11:36 / SRW
Solids, Total Suspended TSS @ 105 C	842	mg/L		50		A2540 D	06/27/23 14:42 / SRW
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	188	mg/L		50		E410.4	06/30/23 09:07 / ams
NUTRIENTS							
Nitrogen, Kjeldahl, Total as N	2.0	mg/L		0.5		E351.2	07/07/23 15:21 / JAR
Nitrogen, Nitrate+Nitrite as N	0.52	mg/L		0.01		E353.2	07/06/23 16:38 / SRW
Nitrogen, Total	2.5	mg/L		0.5		Calculation	07/10/23 08:52 / rrs
Phosphorus, Total as P	1.62	mg/L		0.02		E365.1	07/10/23 16:54 / JAR
METALS, TOTAL							
Copper	0.406	mg/L		0.005		E200.8	07/09/23 16:26 / dck
Lead	0.181	mg/L		0.001		E200.8	07/09/23 16:26 / dck
Zinc	0.65	mg/L		0.01		E200.8	07/09/23 16:26 / dck
ORGANIC CHARACTERISTICS							
Oil & Grease (HEM)	3	mg/L		1		E1664A	07/10/23 08:53 / eli-g



Client:	Water and Environmental	Technologies	-	Work Order:	H2306	61025	Repor	rt Date:	07/11/23	
Analyte	Cour	nt Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	A2540 D								Batch: TS	S230627A
Lab ID:	MB-1_230627	Method Blank				Run: ACCU	I-124 (14410200	)_23062	06/27	/23 12:56
Solids, To	otal Suspended TSS @ 105 C	ND	mg/L	0.3						
Lab ID:	LCS-2_230627	Laboratory Con	trol Sample	е		Run: ACCU	I-124 (14410200	)_23062	06/27	/23 12:56
Solids, To	otal Suspended TSS @ 105 C	90.0	mg/L	25	90	80	120			
Lab ID:	H23060955-006A DUP	Sample Duplica	ate			Run: ACCU	J-124 (14410200	)_23062	06/27	/23 12:57
-	otal Suspended TSS @ 105 C not obtain the minimum residue re		mg/L g residue.	10					10	



# **QA/QC Summary Report**

Prepared by Helena, MT Branch

Client:	Water and Envir	onmental Tec	hnologies		Work Order:	61025	Report Date: 07/11/23				
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	A4500-H B							Analytic	al Run: P	HSC_101-H	_230627A
Lab ID:	рН 7	2 Init	ial Calibratio	on Verifica	tion Standard					06/27/	/23 09:33
рН			7.0	s.u.	0.1	100	98	102			
pH Meas	urement Temp		21.6	°C			0	0			
Lab ID:	CCV - pH 7	2 Co	ntinuing Cali	bration V	erification Standa	rd				06/27/	/23 10:48
pН			7.0	s.u.	0.1	101	98	102			

pH Measurement Temp	18.9 °C	0 0	
Method: A4500-H B			Batch: R185755
Lab ID: H23061025-004ADUP	2 Sample Duplicate	Run: PHSC_101-H_230627A	06/27/23 11:38
рН	8.2 s.u.	0.1 0.5	3 H
pH Measurement Temp	15.5 °C		

**Qualifiers:** 

RL - Analyte Reporting Limit

H - Analysis performed past the method holding time

ND - Not detected at the Reporting Limit (RL)



20

mg/L

s

# **QA/QC Summary Report**

Prepared by Helena, MT Branch

					•						
Client:	Water and Environm		Work Order:	H2306	61025	<b>Report Date: </b> 07/11/23					
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E1664A									Batch: G	_230710A
Lab ID:	MBLK2307100815	Met	thod Blank				Run: SUB-	G278050		07/10	/23 08:49
Oil & Gre	ase (HEM)		ND	mg/L	0.8						
Lab ID:	LCS2307100815	Lab	oratory Cor	ntrol Sample	9		Run: SUB-	G278050		07/10	/23 08:50
Oil & Gre	ase (HEM)		39	mg/L	5.0	97	78	114			
Lab ID:	LCSD2307100815	Lab	oratory Cor	ntrol Sample	e Duplicate		Run: SUB-	G278050		07/10	/23 08:50
Oil & Gre	ase (HEM)		36	mg/L	5.0	89	78	114	8.6	18	
Lab ID:	G23060522-001BMS	Sar	nple Matrix	Spike			Run: SUB-	G278050		07/10	/23 08:51

5.0

48

Lab ID: G23060522-001BMS Oil & Grease (HEM)

**Qualifiers:** 

RL - Analyte Reporting Limit

S - Spike recovery outside of advisory limits

114

78



Client:	Water and Environm	ental	Technologies		Work Order:	H2306	61025	Repo	rt Date	: 07/11/23	
Analyte		Cour	nt Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.8							Analytic	al Run: I	CPMS206-H	_230709A
Lab ID:	ICV	3	Initial Calibration	on Verifica	ation Standard					07/09/	/23 14:03
Copper			0.0610	mg/L	0.010	102	90	110			
Lead			0.0598	mg/L	0.010	100	90	110			
Zinc			0.0615	mg/L	0.010	102	90	110			
Lab ID:	CCV	3	Continuing Cali	ibration V	erification Standa	rd				07/09/	/23 16:01
Copper			0.0521	mg/L	0.010	104	90	110			
Lead			0.0504	mg/L	0.010	101	90	110			
Zinc			0.0518	mg/L	0.010	104	90	110			
Method:	E200.8									Bat	ch: 67148
Lab ID:	MB-67148	3	Method Blank				Run: ICPM	S206-H_230709	A	07/09/	/23 16:08
Copper			ND	mg/L	0.0001						
Lead			ND	mg/L	0.00005						
Zinc			ND	mg/L	0.0006						
Lab ID:	LCS-67148	3	Laboratory Cor	ntrol Sam	ole		Run: ICPM	S206-H_230709	A	07/09/	/23 16:30
Copper			0.515	mg/L	0.0050	103	85	115			
Lead			0.511	mg/L	0.0010	102	85	115			
Zinc			0.488	mg/L	0.010	98	85	115			
Lab ID:	H23061025-001CMS3	3	Sample Matrix	Spike			Run: ICPM	S206-H_230709	A	07/09/	/23 16:33
Copper			1.23	mg/L	0.0050	101	70	130			
Lead			1.09	mg/L	0.0010	101	70	130			
Zinc			1.25	mg/L	0.010	96	70	130			
Lab ID:	H23061025-001CMSD	<b>3</b> 3	Sample Matrix	Spike Du	plicate		Run: ICPM	S206-H_230709	A	07/09/	/23 16:36
Copper			1.22	mg/L	0.0050	100	70	130	0.6	20	
Lead			1.09	mg/L	0.0010	101	70	130	0.2	20	
Zinc			1.25	mg/L	0.010	95	70	130	0.5	20	



Client:	Water and Environm	ental Tec	hnologies	Work Order: H23061025			61025	<b>Report Date: </b> 07/11/23				
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method:	E351.2							Analytical	Run: S	SEAL AA500_	_230707A	
Lab ID:	ICV	Initi	ial Calibratio	on Verification	Standard					07/07/	/23 14:42	
Nitrogen,	Kjeldahl, Total as N		10.4	mg/L	0.50	104	90	110				
Lab ID:	CCV	Cor	ntinuing Cal	ibration Verific	cation Standar	ď				07/07/	/23 15:14	
Nitrogen,	Kjeldahl, Total as N		9.16	mg/L	0.50	92	90	110				
Method:	E351.2									Bat	ch: 67217	
Lab ID:	MB-67217	Me	thod Blank				Run: SEAL	AA500_230707A		07/07/	/23 14:45	
Nitrogen,	Kjeldahl, Total as N		ND	mg/L	0.1							
Lab ID:	LCS-67217	Lab	oratory Cor	ntrol Sample			Run: SEAL	AA500_230707A		07/07/	/23 14:48	
Nitrogen,	Kjeldahl, Total as N		10.1	mg/L	0.50	101	90	110				
Lab ID:	H23061025-001Dms	Sar	mple Matrix	Spike			Run: SEAL	AA500_230707A		07/07/	/23 15:05	
Nitrogen,	Kjeldahl, Total as N		12.0	mg/L	0.50	98	90	110				
Lab ID:	H23061025-001Dmsd	I Sar	mple Matrix	Spike Duplica	ite		Run: SEAL	AA500_230707A		07/07/	/23 15:06	
Nitrogen,	Kjeldahl, Total as N		11.7	mg/L	0.50	95	90	110	2.3	10		
Method:	E351.2									Bat	ch: 67218	
Lab ID:	MB-67218	Me	thod Blank				Run: SEAL	AA500_230707A		07/07/	/23 14:47	
Nitrogen,	Kjeldahl, Total as N		ND	mg/L	0.1							
Lab ID:	LCS-67218	Lab	oratory Cor	ntrol Sample			Run: SEAL	AA500_230707A		07/07/	/23 14:50	
Nitrogen,	Kjeldahl, Total as N		10.0	mg/L	0.50	100	90	110				
Lab ID:	H23061025-002Dms	Sar	mple Matrix	Spike			Run: SEAL	AA500_230707A		07/07/	/23 15:09	
Nitrogen,	Kjeldahl, Total as N		11.4	mg/L	0.50	98	90	110				
Lab ID:	H23061025-002Dmsd	I Sar	mple Matrix	Spike Duplica	ite		Run: SEAL	AA500_230707A		07/07/	/23 15:11	
Nitrogen,	Kjeldahl, Total as N		11.4	mg/L	0.50	98	90	110	0	10		



Client:	Water and Environm	nental Tec	hnologies		Work Order:	H2306	61025	Report	Date:	07/11/23	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E353.2							Analytical	Run: S	EAL AA500_	_230706B
Lab ID:	ICV	Init	ial Calibrati	on Verificati	on Standard					07/06/	/23 13:05
Nitrogen,	Nitrate+Nitrite as N		1.05	mg/L	0.010	105	90	110			
Lab ID:	CCV	Co	ntinuing Ca	libration Vei	ification Standa	ď				07/06/	/23 16:20
Nitrogen,	Nitrate+Nitrite as N		0.978	mg/L	0.010	98	90	110			
Lab ID:	CCV	Co	ntinuing Ca	libration Vei	ification Standa	ď				07/06/	/23 16:34
Nitrogen,	Nitrate+Nitrite as N		0.999	mg/L	0.010	100	90	110			
Method:	E353.2									Batch:	R186043
Lab ID:	ICB	Me	thod Blank				Run: SEAL	AA500_230706B		07/06/	/23 13:03
Nitrogen,	Nitrate+Nitrite as N		ND	mg/L	0.01						
Lab ID:	LFB	Lat	poratory For	rtified Blank			Run: SEAL	AA500_230706B	6	07/06/	/23 13:06
Nitrogen,	Nitrate+Nitrite as N		1.00	mg/L	0.011	100	90	110			
Lab ID:	H23060989-003DMS	Sa	mple Matrix	Spike			Run: SEAL	AA500_230706B	5	07/06/	/23 16:23
Nitrogen,	Nitrate+Nitrite as N		1.08	mg/L	0.011	104	90	110			
Lab ID:	H23060989-003DMS	D Sa	mple Matrix	Spike Dupl	icate		Run: SEAL	AA500_230706B	5	07/06/	/23 16:24
Nitrogen,	Nitrate+Nitrite as N		1.09	mg/L	0.011	105	90	110	0.6	10	
Lab ID:	H23061043-001EMS	Sa	mple Matrix	Spike			Run: SEAL	AA500_230706B	5	07/06/	/23 16:44
Nitrogen,	Nitrate+Nitrite as N		1.07	mg/L	0.011	104	90	110			
Lab ID:	H23061043-001EMSI	D Sa	mple Matrix	Spike Dupl	icate		Run: SEAL	AA500_230706B		07/06/	/23 16:45
Nitrogen,	Nitrate+Nitrite as N		1.08	mg/L	0.011	106	90	110	1.2	10	



Prepared by Helena, MT Branch

Client:	Water and Environm	nental Tec	hnologies		Work Order:	H2306	61025	Repor	t Date	: 07/11/23	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E365.1							Analytica	Run: S	SEAL AA500_	_230710A
Lab ID:	ICV	Initi	al Calibratio	on Verifica	tion Standard					07/10/	23 13:59
Phospho	rus, Total as P		0.241	mg/L	0.010	96	90	110			
Lab ID:	CCV	Cor	ntinuing Cal	ibration Ve	erification Standa	rd				07/10/	23 15:42
Phospho	rus, Total as P		0.105	mg/L	0.010	105	90	110			
Lab ID:	CCV	Cor	ntinuing Cal	ibration Ve	erification Standa	rd				07/10/	23 16:51
Phospho	rus, Total as P		0.106	mg/L	0.010	106	90	110			
Method:	E365.1									Bat	ch: 67240
Lab ID:	MB-67240	Met	hod Blank				Run: SEAL	AA500_230710A	۸	07/10/	23 14:03
Phospho	rus, Total as P		ND	mg/L	0.001						
Lab ID:	LCS-67240	Lab	oratory Cor	ntrol Samp	le		Run: SEAL	AA500_230710A	4	07/10/	23 14:09
Phospho	rus, Total as P		0.437	mg/L	0.010	109	90	110			
Lab ID:	H23061083-001Bms	Sar	nple Matrix	Spike			Run: SEAL	AA500_230710A	λ	07/10/	23 15:56
Phospho	rus, Total as P		0.318	mg/L	0.010	114	90	110			S
Lab ID:	H23061083-001Bmsc	d Sar	nple Matrix	Spike Dup	olicate		Run: SEAL	AA500_230710A	λ	07/10/	23 15:57
Phospho	rus, Total as P		0.320	mg/L	0.010	115	90	110	0.5	20	S

**Qualifiers:** 

RL - Analyte Reporting Limit

S - Spike recovery outside of advisory limits



Client:	Water and Environm	ental Tech	nologies		Work Order:	H2306	61025	Repo	rt Date:	: 07/11/23	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E410.4							Analytica	I Run: G	ENESYS 20_	_230630A
Lab ID:	CCV	Cont	inuing Cal	ibration Ve	rification Standar	ď				06/30/	/23 09:07
Oxygen [	Demand, Chemical (COD	))	52.0	mg/L	5.0	104	90	110			
Method:	E410.4									Bat	ch: 67099
Lab ID:	MB-67099	Meth	nod Blank				Run: GENE	SYS 20_23063	0A	06/30/	/23 09:07
Oxygen [	Demand, Chemical (COD	))	ND	mg/L	4						
Lab ID:	LCS-67099	Labo	oratory Cor	ntrol Sampl	e		Run: GENE	SYS 20_23063	0A	06/30/	/23 09:07
Oxygen [	Demand, Chemical (COD	))	57.3	mg/L	5.0	96	90	110			
Lab ID:	H23061107-001DMS	Sam	ple Matrix	Spike			Run: GENE	SYS 20_23063	0A	06/30/	/23 09:07
Oxygen [	Demand, Chemical (COD	))	64.5	mg/L	5.0	107	90	110			
Lab ID:	H23061107-001DMSD	Sam	ple Matrix	Spike Dupl	icate		Run: GENE	SYS 20_23063	0A	06/30/	/23 09:07
Oxygen [	Demand, Chemical (COD	))	64.4	mg/L	5.0	107	90	110	0	20	



# Work Order Receipt Checklist

# Water and Environmental Technologies

H230610	)25
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Login completed by:	Taylor K. Jones		Date Received: 6/26/2023				
Reviewed by:	rtooke		Rece	eived by: RAT			
Reviewed Date:	6/27/2023		Carrie	er name: Hand Deliver			
Shipping container/cooler in	good condition?	Yes 🖌	No 🗌	Not Present			
Custody seals intact on all sh	nipping container(s)/cooler(s)?	Yes 🗹	No 🗌	Not Present			
Custody seals intact on all sa	ample bottles?	Yes	No 🗌	Not Present 🗹			
Chain of custody present?		Yes 🗹	No 🗌				
Chain of custody signed whe	Yes 🗹	No 🗌					
Chain of custody agrees with	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 h (Exclude analyses that are co such as pH, DO, Res Cl, Su	onsidered field parameters	Yes 🗸	No 🗌				
Temp Blank received in all sl	hipping container(s)/cooler(s)?	Yes 🗹	No 🗌	Not Applicable			
Container/Temp Blank tempe	erature:	5.6°C On Ice					
Containers requiring zero hea bubble that is <6mm (1/4").	adspace have no headspace or	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.

### **Contact and Corrective Action Comments:**

The temperature of the sample(s) for shipping container 1 was 5.6°C and the Temperature Blank temperature for shipping container 2 was 5.6°C. tj 6/26/23

	X	Report Information (if different than Account Information)	ormation	(if different t	han Account	Information	(		Comments	ts
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Bottle Order	Order 73176	Special Report/Formats:	LAC D	EDD/EDT (o	EDD/EDT (contact laboratory)	yy) 🗆 Other	ar			
		Matrix Codes			Analy	Analysis Requested	lested			
BSBPWM04	1	A - Air W- Water		MA	1	150	Su	No.		All turnaround times are standard unless marked as
for Sampler Phone 406	1649 615		Ø¢	-	4	1	いた			RUSH.
EPA/State Con	XVes	<ul> <li>V - Vegetation</li> <li>B - Bioassay</li> </ul>	IHS		OIL	EN, E	8 225/ 991		р	MUST be contacted prior to
MINING CLIENTS, please indicate sample type. "If ore has been processed or refined, call before sending. Byproduct 11 (e)2 material   Unprocessed ore (NOT ground or refined)*	l or refined)*	O - Other DW - Prinking	C. A. A.	EON/	I 1/01		~		ottache	KUSH sample submittal for charges and scheduling – See Instructions Page
Sample Identification	ollection	Number of Matrix Containers (See Codes	SS L	IICN'	00) SE =	1:0	1773 17721 1773	in. M	A 992	ELI LAB ID
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# ANALYTICAL SUMMARY REPORT

July 11, 2023

Water and Environmental Technologies 480 E Park St Ste 200 Butte, MT 59701-1923

Work Order: H23061025

Project Name: BSBPWM041

Energy Laboratories Inc Helena MT received the following 4 samples for Water and Environmental Technologies on 6/26/2023 for analysis.

Lab ID	Client Sample ID	Collect Date R	Receive Date	Matrix	Test
H23061025-001	001A	06/23/23 17:40	06/26/23	Aqueous	Metals by ICP/ICPMS, Total Chemical Oxygen Demand Oil & Grease, Gravimetric Nitrogen, Nitrate + Nitrite Nitrogen, Total Kjeldahl Nitrogen, Total (TKN+NO3+NO2) pH Metals Digestion by E200.2 Preparation for COD testing HACH 8000 E365.1 Digestion, Total P TKN Prep Phosphorus, Total Solids, Total Suspended
H23061025-002	002A	06/23/23 17:55	06/26/23	Aqueous	Same As Above
H23061025-003	001B	06/23/23 17:10	06/26/23	Aqueous	Same As Above
H23061025-004	002B	06/23/23 17:25	06/26/23	Aqueous	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, 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:

<b>ENERGY</b>	
LABORATORIES	

BSBPWM041

H23061025

**CLIENT:** 

Project:

Work Order:

Water and Environmental Technologies

Report Date: 07/11/23

# **CASE NARRATIVE**

Tests associated with analyst identified as ELI-G were subcontracted to Energy Laboratories, 400 W. Boxelder Rd., Gillette, WY, EPA Number WY00006.



Prepared by Helena, MT Branch

Client:	Water and Environmental Technologies	Report Date:	07/11/23
Project:	BSBPWM041	Collection Date:	06/23/23 17:40
Lab ID:	H23061025-001	DateReceived:	06/26/23
Client Sample ID:	001A	Matrix:	Aqueous

			o		MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
рН	7.6	s.u.	н	0.1		A4500-H B	06/27/23 11:30 / SRW
pH Measurement Temp	14.5	°C				A4500-H B	06/27/23 11:30 / SRW
Solids, Total Suspended TSS @ 105 C	293	mg/L		40		A2540 D	06/27/23 14:41 / SRW
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	87	mg/L		5		E410.4	06/30/23 09:07 / ams
NUTRIENTS							
Nitrogen, Kjeldahl, Total as N	2.2	mg/L		0.5		E351.2	07/07/23 15:03 / JAR
Nitrogen, Nitrate+Nitrite as N	0.41	mg/L		0.01		E353.2	07/06/23 16:33 / SRW
Nitrogen, Total	2.6	mg/L		0.5		Calculation	07/10/23 08:52 / rrs
Phosphorus, Total as P	0.85	mg/L		0.01		E365.1	07/10/23 15:49 / JAR
METALS, TOTAL							
Copper	0.216	mg/L		0.005		E200.8	07/09/23 16:16 / dck
Lead	0.078	mg/L		0.001		E200.8	07/09/23 16:16 / dck
Zinc	0.29	mg/L		0.01		E200.8	07/09/23 16:16 / dck
ORGANIC CHARACTERISTICS							
Oil & Grease (HEM)	2	mg/L		1		E1664A	07/10/23 08:52 / eli-g



Prepared by Helena, MT Branch

Client:	Water and Environmental Technologies	Report Date:	07/11/23
Project:	BSBPWM041	Collection Date:	06/23/23 17:55
Lab ID:	H23061025-002	DateReceived:	06/26/23
Client Sample ID:	002A	Matrix:	Aqueous

Analyzan	Result	Unito	Qualifiers	RL	MCL/ QCL	Method	Analysis Data / By
Analyses	Result	Units	Quaimers	RL	QUL	wethod	Analysis Date / By
PHYSICAL PROPERTIES							
рН	7.2	s.u.	н	0.1		A4500-H B	06/27/23 11:32 / SRW
pH Measurement Temp	14.9	°C				A4500-H B	06/27/23 11:32 / SRW
Solids, Total Suspended TSS @ 105 C	184	mg/L		40		A2540 D	06/27/23 14:41 / SRW
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	78	mg/L		5		E410.4	06/30/23 09:07 / ams
NUTRIENTS							
Nitrogen, Kjeldahl, Total as N	1.6	mg/L		0.5		E351.2	07/07/23 15:08 / JAR
Nitrogen, Nitrate+Nitrite as N	0.85	mg/L		0.01		E353.2	07/06/23 16:36 / SRW
Nitrogen, Total	2.5	mg/L		0.5		Calculation	07/10/23 08:52 / rrs
Phosphorus, Total as P	0.48	mg/L		0.01		E365.1	07/10/23 15:50 / JAR
METALS, TOTAL							
Copper	0.142	mg/L		0.005		E200.8	07/09/23 16:19 / dck
Lead	0.038	mg/L		0.001		E200.8	07/09/23 16:19 / dck
Zinc	0.16	mg/L		0.01		E200.8	07/09/23 16:19 / dck
ORGANIC CHARACTERISTICS							
Oil & Grease (HEM)	2	mg/L		1		E1664A	07/10/23 08:52 / eli-g

Report Definitions:



#### LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client:	Water and Environmental Technologies	Report Date:	07/11/23
Project:	BSBPWM041	Collection Date:	06/23/23 17:10
Lab ID:	H23061025-003	DateReceived:	06/26/23
Client Sample ID:	001B	Matrix:	Aqueous

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
рН	7.0	s.u.	н	0.1		A4500-H B	06/27/23 11:34 / SRW
pH Measurement Temp	15.3	°C				A4500-H B	06/27/23 11:34 / SRW
Solids, Total Suspended TSS @ 105 C	254	mg/L		50		A2540 D	06/27/23 14:41 / SRW
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	174	mg/L		50		E410.4	06/30/23 09:07 / ams
NUTRIENTS							
Nitrogen, Kjeldahl, Total as N	2.9	mg/L		0.5		E351.2	07/07/23 15:12 / JAR
Nitrogen, Nitrate+Nitrite as N	0.48	mg/L		0.01		E353.2	07/06/23 16:37 / SRW
Nitrogen, Total	3.3	mg/L		0.5		Calculation	07/10/23 08:52 / rrs
Phosphorus, Total as P	0.69	mg/L		0.01		E365.1	07/10/23 15:51 / JAR
METALS, TOTAL							
Copper	0.132	mg/L		0.005		E200.8	07/09/23 16:23 / dck
Lead	0.086	mg/L		0.001		E200.8	07/09/23 16:23 / dck
Zinc	0.44	mg/L		0.01		E200.8	07/09/23 16:23 / dck
ORGANIC CHARACTERISTICS							
Oil & Grease (HEM)	2	mg/L		1		E1664A	07/10/23 08:53 / eli-g

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit H - Analysis performed past the method holding time



#### LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client:	Water and Environmental Technologies	Report Date:	07/11/23
Project:	BSBPWM041	Collection Date:	06/23/23 17:25
Lab ID:	H23061025-004	DateReceived:	06/26/23
Client Sample ID:	002B	Matrix:	Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
		•	444	=			/
PHYSICAL PROPERTIES							
рН	8.2	s.u.	н	0.1		A4500-H B	06/27/23 11:36 / SRW
pH Measurement Temp	15.6	°C				A4500-H B	06/27/23 11:36 / SRW
Solids, Total Suspended TSS @ 105 C	842	mg/L		50		A2540 D	06/27/23 14:42 / SRW
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	188	mg/L		50		E410.4	06/30/23 09:07 / ams
NUTRIENTS							
Nitrogen, Kjeldahl, Total as N	2.0	mg/L		0.5		E351.2	07/07/23 15:21 / JAR
Nitrogen, Nitrate+Nitrite as N	0.52	mg/L		0.01		E353.2	07/06/23 16:38 / SRW
Nitrogen, Total	2.5	mg/L		0.5		Calculation	07/10/23 08:52 / rrs
Phosphorus, Total as P	1.62	mg/L		0.02		E365.1	07/10/23 16:54 / JAR
METALS, TOTAL							
Copper	0.406	mg/L		0.005		E200.8	07/09/23 16:26 / dck
Lead	0.181	mg/L		0.001		E200.8	07/09/23 16:26 / dck
Zinc	0.65	mg/L		0.01		E200.8	07/09/23 16:26 / dck
ORGANIC CHARACTERISTICS							
Oil & Grease (HEM)	3	mg/L		1		E1664A	07/10/23 08:53 / eli-g

RL - Analyte Reporting Limit QCL - Quality Control Limit H - Analysis performed past the method holding time



Client:	Water and Environmental	Technologies	-	Work Order:	H2306	61025	Repor	rt Date:	07/11/23	
Analyte	Cour	nt Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	A2540 D								Batch: TS	S230627A
Lab ID:	MB-1_230627	Method Blank				Run: ACCU	I-124 (14410200	)_23062	06/27	/23 12:56
Solids, To	otal Suspended TSS @ 105 C	ND	mg/L	0.3						
Lab ID:	LCS-2_230627	Laboratory Con	trol Sample	е		Run: ACCU	I-124 (14410200	)_23062	06/27	/23 12:56
Solids, To	otal Suspended TSS @ 105 C	90.0	mg/L	25	90	80	120			
Lab ID:	H23060955-006A DUP	Sample Duplica	ate			Run: ACCU	J-124 (14410200	)_23062	06/27	/23 12:57
-	otal Suspended TSS @ 105 C not obtain the minimum residue re		mg/L g residue.	10					10	



#### **QA/QC Summary Report**

Prepared by Helena, MT Branch

Client:	Water and Envir	onmental Tec	hnologies		Work Order:	61025	<b>Report Date: </b> 07/11/23				
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	A4500-H B							Analytic	al Run: P	HSC_101-H	_230627A
Lab ID:	рН 7	2 Init	ial Calibratio	on Verifica	tion Standard					06/27/	/23 09:33
рН			7.0	s.u.	0.1	100	98	102			
pH Meas	urement Temp		21.6	°C			0	0			
Lab ID:	CCV - pH 7	2 Co	ntinuing Cali	bration V	erification Standa	rd				06/27/	/23 10:48
pН			7.0	s.u.	0.1	101	98	102			

pH Measurement Temp	18.9 °C	0 0	
Method: A4500-H B			Batch: R185755
Lab ID: H23061025-004ADUP	2 Sample Duplicate	Run: PHSC_101-H_230627A	06/27/23 11:38
рН	8.2 s.u.	0.1 0.5	3 H
pH Measurement Temp	15.5 °C		

**Qualifiers:** 

RL - Analyte Reporting Limit

H - Analysis performed past the method holding time

ND - Not detected at the Reporting Limit (RL)



20

mg/L

s

#### **QA/QC Summary Report**

Prepared by Helena, MT Branch

					•						
Client:	Water and Environm	nental Tec	hnologies		Work Order:	H23061025		Report Date:		: 07/11/23	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E1664A									Batch: G	_230710A
Lab ID:	MBLK2307100815	Met	thod Blank				Run: SUB-	G278050		07/10	/23 08:49
Oil & Gre	ase (HEM)		ND	mg/L	0.8						
Lab ID:	LCS2307100815	Lab	oratory Cor	ntrol Sample	9		Run: SUB-	G278050		07/10	/23 08:50
Oil & Gre	ase (HEM)		39	mg/L	5.0	97	78	114			
Lab ID:	LCSD2307100815	Lab	oratory Cor	ntrol Sample	e Duplicate		Run: SUB-	G278050		07/10	/23 08:50
Oil & Gre	ase (HEM)		36	mg/L	5.0	89	78	114	8.6	18	
Lab ID:	G23060522-001BMS	Sar	nple Matrix	Spike			Run: SUB-	G278050		07/10	/23 08:51

5.0

48

Lab ID: G23060522-001BMS Oil & Grease (HEM)

**Qualifiers:** 

RL - Analyte Reporting Limit

S - Spike recovery outside of advisory limits

114

78



Client:	Water and Environm	ental	Technologies		Work Order:	H2306	61025	Repo	rt Date	: 07/11/23	
Analyte		Cour	nt Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.8							Analytic	al Run: I	CPMS206-H	_230709A
Lab ID:	ICV	3	Initial Calibration	on Verifica	ation Standard					07/09/	/23 14:03
Copper			0.0610	mg/L	0.010	102	90	110			
Lead			0.0598	mg/L	0.010	100	90	110			
Zinc			0.0615	mg/L	0.010	102	90	110			
Lab ID:	CCV	3	Continuing Cali	ibration V	erification Standa	rd				07/09/	/23 16:01
Copper			0.0521	mg/L	0.010	104	90	110			
Lead			0.0504	mg/L	0.010	101	90	110			
Zinc			0.0518	mg/L	0.010	104	90	110			
Method:	E200.8									Bat	ch: 67148
Lab ID:	MB-67148	3	Method Blank				Run: ICPM	S206-H_230709	A	07/09/	/23 16:08
Copper			ND	mg/L	0.0001						
Lead			ND	mg/L	0.00005						
Zinc			ND	mg/L	0.0006						
Lab ID:	LCS-67148	3	Laboratory Cor	ntrol Sam	ole		Run: ICPM	S206-H_230709	A	07/09/	/23 16:30
Copper			0.515	mg/L	0.0050	103	85	115			
Lead			0.511	mg/L	0.0010	102	85	115			
Zinc			0.488	mg/L	0.010	98	85	115			
Lab ID:	H23061025-001CMS3	3	Sample Matrix	Spike			Run: ICPM	S206-H_230709	A	07/09/	/23 16:33
Copper			1.23	mg/L	0.0050	101	70	130			
Lead			1.09	mg/L	0.0010	101	70	130			
Zinc			1.25	mg/L	0.010	96	70	130			
Lab ID:	H23061025-001CMSD	<b>3</b> 3	Sample Matrix	Spike Du	plicate		Run: ICPM	S206-H_230709	A	07/09/	/23 16:36
Copper			1.22	mg/L	0.0050	100	70	130	0.6	20	
Lead			1.09	mg/L	0.0010	101	70	130	0.2	20	
Zinc			1.25	mg/L	0.010	95	70	130	0.5	20	



Client:	Water and Environm	ental Tec	Technologies Work			H2306	61025	<b>Report Date: 07/11/23</b>				
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method:	E351.2							Analytical	Run: S	SEAL AA500_	_230707A	
Lab ID:	ICV	Initi	ial Calibratio	on Verification	Standard					07/07/	/23 14:42	
Nitrogen,	Kjeldahl, Total as N		10.4	mg/L	0.50	104	90	110				
Lab ID:	CCV	Cor	ntinuing Cal	ibration Verific	cation Standar	ď				07/07/	/23 15:14	
Nitrogen,	Kjeldahl, Total as N		9.16	mg/L	0.50	92	90	110				
Method:	E351.2									Bat	ch: 67217	
Lab ID:	MB-67217	Me	thod Blank				Run: SEAL	AA500_230707A		07/07/	/23 14:45	
Nitrogen,	Kjeldahl, Total as N		ND	mg/L	0.1							
Lab ID:	LCS-67217	Lab	oratory Cor	ntrol Sample			Run: SEAL	AA500_230707A		07/07/	/23 14:48	
Nitrogen,	Kjeldahl, Total as N		10.1	mg/L	0.50	101	90	110				
Lab ID:	H23061025-001Dms	Sar	mple Matrix	Spike			Run: SEAL	AA500_230707A		07/07/	/23 15:05	
Nitrogen,	Kjeldahl, Total as N		12.0	mg/L	0.50	98	90	110				
Lab ID:	H23061025-001Dmsd	I Sar	mple Matrix	Spike Duplica	ite		Run: SEAL	AA500_230707A		07/07/	/23 15:06	
Nitrogen,	Kjeldahl, Total as N		11.7	mg/L	0.50	95	90	110	2.3	10		
Method:	E351.2									Bat	ch: 67218	
Lab ID:	MB-67218	Me	thod Blank				Run: SEAL	AA500_230707A		07/07/	/23 14:47	
Nitrogen,	Kjeldahl, Total as N		ND	mg/L	0.1							
Lab ID:	LCS-67218	Lab	oratory Cor	ntrol Sample			Run: SEAL	AA500_230707A		07/07/	/23 14:50	
Nitrogen,	Kjeldahl, Total as N		10.0	mg/L	0.50	100	90	110				
Lab ID:	H23061025-002Dms	Sar	mple Matrix	Spike			Run: SEAL	AA500_230707A		07/07/	/23 15:09	
Nitrogen,	Kjeldahl, Total as N		11.4	mg/L	0.50	98	90	110				
Lab ID:	H23061025-002Dmsd	I Sar	mple Matrix	Spike Duplica	ite		Run: SEAL	AA500_230707A		07/07/	/23 15:11	
Nitrogen,	Kjeldahl, Total as N		11.4	mg/L	0.50	98	90	110	0	10		



Client:	Water and Environm	nental Tec	hnologies		Work Order:	<b>Report Date: </b> 07/11/23					
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E353.2							Analytical	Run: S	EAL AA500_	_230706B
Lab ID:	ICV	Init	ial Calibrati	on Verificati	on Standard					07/06/	/23 13:05
Nitrogen,	Nitrate+Nitrite as N		1.05	mg/L	0.010	105	90	110			
Lab ID:	CCV	Co	ntinuing Ca	libration Vei	ification Standa	ď				07/06/	/23 16:20
Nitrogen,	Nitrate+Nitrite as N		0.978	mg/L	0.010	98	90	110			
Lab ID:	CCV	Co	ntinuing Ca	libration Vei	ification Standa	ď				07/06/	/23 16:34
Nitrogen,	Nitrate+Nitrite as N		0.999	mg/L	0.010	100	90	110			
Method:	E353.2									Batch:	R186043
Lab ID:	ICB	Me	thod Blank				Run: SEAL	AA500_230706B		07/06/	/23 13:03
Nitrogen,	Nitrate+Nitrite as N		ND	mg/L	0.01						
Lab ID:	LFB	Lat	poratory For	rtified Blank			Run: SEAL	AA500_230706B	6	07/06/	/23 13:06
Nitrogen,	Nitrate+Nitrite as N		1.00	mg/L	0.011	100	90	110			
Lab ID:	H23060989-003DMS	Sa	mple Matrix	Spike			Run: SEAL	AA500_230706B	5	07/06/	/23 16:23
Nitrogen,	Nitrate+Nitrite as N		1.08	mg/L	0.011	104	90	110			
Lab ID:	H23060989-003DMS	D Sa	mple Matrix	Spike Dupl	icate		Run: SEAL	AA500_230706B	5	07/06/	/23 16:24
Nitrogen,	Nitrate+Nitrite as N		1.09	mg/L	0.011	105	90	110	0.6	10	
Lab ID:	H23061043-001EMS	Sa	mple Matrix	Spike			Run: SEAL	AA500_230706B	5	07/06/	/23 16:44
Nitrogen,	Nitrate+Nitrite as N		1.07	mg/L	0.011	104	90	110			
Lab ID:	H23061043-001EMSI	D Sa	mple Matrix	Spike Dupl	icate		Run: SEAL	AA500_230706B		07/06/	/23 16:45
Nitrogen,	Nitrate+Nitrite as N		1.08	mg/L	0.011	106	90	110	1.2	10	



Prepared by Helena, MT Branch

Client:	Water and Environm	nental Tec	hnologies		Work Order:	H2306	61025	Repor	t Date	: 07/11/23	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E365.1							Analytica	Run: S	SEAL AA500_	_230710A
Lab ID:	ICV	Initi	al Calibratio	on Verifica	tion Standard					07/10/	23 13:59
Phospho	rus, Total as P		0.241	mg/L	0.010	96	90	110			
Lab ID:	CCV	Cor	ntinuing Cal	ibration Ve	erification Standa	rd				07/10/	23 15:42
Phospho	rus, Total as P		0.105	mg/L	0.010	105	90	110			
Lab ID:	CCV	Cor	ntinuing Cal	ibration Ve	erification Standa	rd				07/10/	23 16:51
Phospho	rus, Total as P		0.106	mg/L	0.010	106	90	110			
Method:	E365.1									Bat	ch: 67240
Lab ID:	MB-67240	Met	hod Blank				Run: SEAL	AA500_230710A	۸	07/10/	23 14:03
Phospho	rus, Total as P		ND	mg/L	0.001						
Lab ID:	LCS-67240	Lab	oratory Cor	ntrol Samp	le		Run: SEAL	AA500_230710A	λ	07/10/	23 14:09
Phospho	rus, Total as P		0.437	mg/L	0.010	109	90	110			
Lab ID:	H23061083-001Bms	Sar	nple Matrix	Spike			Run: SEAL	AA500_230710A	λ	07/10/	23 15:56
Phospho	rus, Total as P		0.318	mg/L	0.010	114	90	110			S
Lab ID:	H23061083-001Bmsc	d Sar	nple Matrix	Spike Dup	olicate		Run: SEAL	AA500_230710A	λ	07/10/	23 15:57
Phospho	rus, Total as P		0.320	mg/L	0.010	115	90	110	0.5	20	S

**Qualifiers:** 

RL - Analyte Reporting Limit

S - Spike recovery outside of advisory limits



Client:	Water and Environm	ental Tech	nologies		Work Order:	H2306	61025	Repo	rt Date:	: 07/11/23	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E410.4							Analytica	I Run: G	ENESYS 20_	_230630A
Lab ID:	CCV	Cont	inuing Cal	ibration Ve	rification Standar	ď				06/30/	/23 09:07
Oxygen [	Demand, Chemical (COD	))	52.0	mg/L	5.0	104	90	110			
Method:	E410.4									Bat	ch: 67099
Lab ID:	MB-67099	Meth	nod Blank				Run: GENE	SYS 20_23063	0A	06/30/	/23 09:07
Oxygen [	Demand, Chemical (COD	))	ND	mg/L	4						
Lab ID:	LCS-67099	Labo	oratory Cor	ntrol Sampl	e		Run: GENE	SYS 20_23063	0A	06/30/	/23 09:07
Oxygen [	Demand, Chemical (COD	))	57.3	mg/L	5.0	96	90	110			
Lab ID:	H23061107-001DMS	Sam	ple Matrix	Spike			Run: GENE	SYS 20_23063	0A	06/30/	/23 09:07
Oxygen [	Demand, Chemical (COD	))	64.5	mg/L	5.0	107	90	110			
Lab ID:	H23061107-001DMSD	Sam	ple Matrix	Spike Dupl	icate		Run: GENE	SYS 20_23063	0A	06/30/	/23 09:07
Oxygen [	Demand, Chemical (COD	))	64.4	mg/L	5.0	107	90	110	0	20	



## Work Order Receipt Checklist

#### Water and Environmental Technologies

H230610	)25
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Login completed by:	Taylor K. Jones		Date R	eceived: 6/26/2023
Reviewed by:	rtooke		Rece	eived by: RAT
Reviewed Date:	6/27/2023		Carrie	er name: Hand Deliver
Shipping container/cooler in	good condition?	Yes 🖌	No 🗌	Not Present
Custody seals intact on all sh	nipping container(s)/cooler(s)?	Yes 🗹	No 🗌	Not Present
Custody seals intact on all sa	ample bottles?	Yes	No 🗌	Not Present 🗹
Chain of custody present?		Yes 🗹	No 🗌	
Chain of custody signed whe	en relinquished and received?	Yes 🗹	No 🗌	
Chain of custody agrees with	a 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 h (Exclude analyses that are co such as pH, DO, Res Cl, Su	onsidered field parameters	Yes 🗸	No 🗌	
Temp Blank received in all sl	nipping container(s)/cooler(s)?	Yes 🗹	No 🗌	Not Applicable
Container/Temp Blank tempe	erature:	5.6°C On Ice		
Containers requiring zero hea bubble that is <6mm (1/4").	adspace have no headspace or	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.

#### **Contact and Corrective Action Comments:**

The temperature of the sample(s) for shipping container 1 was 5.6°C and the Temperature Blank temperature for shipping container 2 was 5.6°C. tj 6/26/23

		Report Information (if different than Account Information)	mation (#	different tha	in Account In	iformation)		Com	Comments
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ote Botti	Ado C	Special Report/Formats							
	9/15/1				(on one on				
		Matrix Codes			Analys	Analysis Requested	sted		
BSBPWM04	11	W- Water		M170		120	SL.		All turnaround times are standard unless marked as
Lan Sampler Phone 406	1649 615 00	S - Solis/ Solids		-	<i>h</i>	1	った		RUSH.
EPA/State Compliance	Ice XYes INo	<ul> <li>V - Vegetation</li> <li>B - Bioassay</li> </ul>	1		OIL	ゴンショーヨ	8 1823 1991	p	T
MINING CLIENTS, please indicate sample type. "If ore has been processed or refined, call before sending. Byproduct 11 (e)2 material   Unprocessed ore (NOT ground or refined)*	und or refined)*	O - Other DW - Drinking	SA SVO	EON/ VNO3	J	8 60	-	offache	KUSH sample submittal for charges and scheduling – See Instructions Page
Sample Identification	Collection Date Time	Number of Matrix Containers (See Codes	SSL	E 32 NOIL	007	1:0	17-3- 17-24 17-24	4 99S	ELI LAB ID
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