ANALYTICAL SUMMARY REPORT

July 31, 2023

Highbury Resources
PO Box 700
Nucla, CO 81424-0700

Work Order: C23061079 Quote ID: C5556

Project Name: JD-9 MW

Energy Laboratories, Inc. Casper WY received the following 1 sample for Highbury Resources on 6/29/2023 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C23061079-001	N6064	06/26/23 10:00	06/29/23	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity to pH 4.5 Anion - Cation Balance Mercury, Dissolved Fluoride Anions by Ion Chromatography Nitrogen, Nitrite Nitrogen, Nitrate + Nitrite pH Digestion, Mercury by CVAA Gross Alpha, Gross Beta, Dissolved Radium 226 + Radium 228, Dissolved Radium 226, Dissolved Radium 228, Dissolved Solids, Total Dissolved - Calculated

The analyses presented in this report were performed by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, 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:

Alyson Degnan
Project Manager

Digitally signed by
Alyson T. Degnan
Date: 2023.07.31 13:22:20 -06:00

CLIENT: Highbury Resources
Project: JD-9 MW
Work Order: C23061079

Report Date: 07/31/23

CASE NARRATIVE

Tests associated with analyst identified as ELI-H were subcontracted to Energy Laboratories, 3161 E.Lyndale Ave., Helena, MT, EPA Number MT00945.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Highbury Resources
Project: JD-9 MW
Lab ID: C23061079-001
Client Sample ID: N6064

Report Date: 07/31/23
Collection Date: 06/26/23 10:00
DateReceived: 06/29/23
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	318	mg/L		5		A2320 B	07/05/23 17:03 / slf
Chloride	110	mg/L		1		E300.0	07/05/23 20:04 / slf
Fluoride	0.7	mg/L		0.1		A4500-F C	07/03/23 15:37 / slf
Sulfate	931	mg/L		2		E300.0	07/05/23 20:04 / slf
Calcium	157	mg/L		1		E200.7	07/04/23 21:30 / eli-h
Magnesium	110	mg/L		1		E200.7	07/04/23 21:30 / eli-h
Potassium	30	mg/L		1		E200.8	07/13/23 21:19 / eli-h
Sodium	310	mg/L		1		E200.7	07/05/23 17:11 / eli-h
PHYSICAL PROPERTIES							
pH	7.4	s.u.	H	0.1		A4500-H B	06/29/23 18:35 / slf
pH Measurement Temp	18.7	°C				A4500-H B	06/29/23 18:35 / slf
NUTRIENTS							
Nitrogen, Nitrite as N	ND	mg/L	H	0.01		A4500-NO2 B	07/03/23 14:52 / slf
Nitrogen, Nitrate+Nitrite as N	36.5	mg/L		0.5		E353.2	07/05/23 08:53 / dmb
- The sample was received after the holding time had expired for nitrite.							
METALS, DISSOLVED							
Aluminum	ND	mg/L		0.03		E200.8	07/14/23 19:20 / eli-h
Antimony	ND	mg/L		0.001		E200.8	07/13/23 21:19 / eli-h
Arsenic	ND	mg/L		0.001		E200.8	07/13/23 21:19 / eli-h
Barium	ND	mg/L		0.05		E200.8	07/13/23 21:19 / eli-h
Beryllium	ND	mg/L		0.001		E200.8	07/13/23 21:19 / eli-h
Boron	0.25	mg/L		0.05		E200.7	07/04/23 21:30 / eli-h
Cadmium	ND	mg/L		0.001		E200.8	07/13/23 21:19 / eli-h
Chromium	ND	mg/L		0.005		E200.8	07/13/23 21:19 / eli-h
Cobalt	ND	mg/L		0.005		E200.8	07/13/23 21:19 / eli-h
Copper	ND	mg/L		0.005		E200.8	07/13/23 21:19 / eli-h
Iron	ND	mg/L		0.02		E200.8	07/13/23 21:19 / eli-h
Lead	ND	mg/L		0.001		E200.8	07/13/23 21:19 / eli-h
Lithium	0.286	mg/L		0.001		E200.8	07/14/23 19:20 / eli-h
Manganese	0.008	mg/L		0.001		E200.8	07/13/23 21:19 / eli-h
Mercury	ND	mg/L		0.0001		E245.1	07/13/23 14:20 / eli-h
Molybdenum	0.051	mg/L		0.001		E200.8	07/13/23 21:19 / eli-h
Nickel	ND	mg/L		0.005		E200.8	07/13/23 21:19 / eli-h
Selenium	0.437	mg/L		0.001		E200.8	07/13/23 21:19 / eli-h
Silica	10.0	mg/L		0.2		E200.7	07/04/23 21:30 / eli-h
Silver	ND	mg/L		0.001		E200.8	07/13/23 21:19 / eli-h
Strontium	5.87	mg/L		0.01		E200.7	07/04/23 21:30 / eli-h
Uranium	0.209	mg/L		0.0003		E200.8	07/13/23 21:19 / eli-h
Vanadium	ND	mg/L		0.01		E200.8	07/13/23 21:19 / eli-h
Zinc	0.03	mg/L		0.01		E200.8	07/13/23 21:19 / eli-h

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
H - Analysis performed past the method holding time
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Highbury Resources
Project: JD-9 MW
Lab ID: C23061079-001
Client Sample ID: N6064

Report Date: 07/31/23
Collection Date: 06/26/23 10:00
DateReceived: 06/29/23
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
DATA QUALITY							
A/C Balance	-0.54	%				A1030 E	07/19/23 13:03 / dmb
Anions	31.5	meq/L				A1030 E	07/19/23 13:03 / dmb
Cations	31.2	meq/L				A1030 E	07/19/23 13:03 / dmb
RADIONUCLIDES, DISSOLVED							
Gross Alpha	158	pCi/L				E900.0	07/19/23 01:16 / trs
Gross Alpha precision (±)	32.2	pCi/L				E900.0	07/19/23 01:16 / trs
Gross Alpha MDC	6.6	pCi/L				E900.0	07/19/23 01:16 / trs
Gross Beta	46.0	pCi/L				E900.0	07/19/23 01:16 / trs
Gross Beta precision (±)	5.6	pCi/L				E900.0	07/19/23 01:16 / trs
Gross Beta MDC	4.7	pCi/L				E900.0	07/19/23 01:16 / trs
Radium 226	5.1	pCi/L				E903.0	07/19/23 13:49 / kdk
Radium 226 precision (±)	1.0	pCi/L				E903.0	07/19/23 13:49 / kdk
Radium 226 MDC	0.2	pCi/L				E903.0	07/19/23 13:49 / kdk
Radium 228	0.2	pCi/L	U			RA-05	07/14/23 11:46 / trs
Radium 228 precision (±)	0.6	pCi/L				RA-05	07/14/23 11:46 / trs
Radium 228 MDC	0.9	pCi/L				RA-05	07/14/23 11:46 / trs
Radium 226 + Radium 228	5.5	pCi/L				A7500-RA	07/24/23 12:33 / dmf
Radium 226 + Radium 228 precision (±)	1.2	pCi/L				A7500-RA	07/24/23 12:33 / dmf
Radium 226 + Radium 228 MDC	1	pCi/L				A7500-RA	07/24/23 12:33 / dmf

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

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Highbury Resources **Work Order:** C23061079 **Report Date:** 07/12/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Analytical Run: MANTECH_230705A	
Lab ID: ICV		Initial Calibration Verification Standard							07/05/23 13:51	
pH		7.91	s.u.	0.010	99	98	102			
Lab ID: CCV		Continuing Calibration Verification Standard							07/05/23 17:07	
pH		7.04	s.u.	0.010	101	98	102			
Method: A2320 B									Batch: R296323	
Lab ID: MBLK		Method Blank				Run: MANTECH_230705A			07/05/23 14:00	
Alkalinity, Total as CaCO3		ND	mg/L	2						
Lab ID: LCS		Laboratory Control Sample				Run: MANTECH_230705A			07/05/23 14:09	
Alkalinity, Total as CaCO3		250	mg/L	5.0	100	90	110			
Lab ID: C23061061-010ADUP		Sample Duplicate				Run: MANTECH_230705A			07/05/23 15:52	
Alkalinity, Total as CaCO3		369	mg/L	5.0				0.3	10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Highbury Resources **Work Order:** C23061079 **Report Date:** 07/12/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **A4500-F C**										Analytical Run: MANTECH_230703A
Lab ID: **CCV**		Continuing Calibration Verification Standard								07/03/23 15:02
Fluoride		2.00	mg/L	0.10	100	90	110			
Method: **A4500-F C**										Batch: R296239
Lab ID: **LCS**		Laboratory Control Sample				Run: MANTECH_230703A				07/03/23 13:15
Fluoride		1.82	mg/L	0.10	91	90	110			
Lab ID: **MBLK**		Method Blank				Run: MANTECH_230703A				07/03/23 13:30
Fluoride		ND	mg/L	0.06						
Lab ID: **C23061061-010ADUP**		Sample Duplicate				Run: MANTECH_230703A				07/03/23 15:22
Fluoride		0.380	mg/L	0.10				2.7	10	
Lab ID: **C23061061-011AMS**		Sample Matrix Spike				Run: MANTECH_230703A				07/03/23 15:34
Fluoride		2.44	mg/L	0.10	106	90	110			

Qualifiers:

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Highbury Resources **Work Order:** C23061079 **Report Date:** 07/12/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Analytical Run: PHSC_101-C_230629A	
Lab ID: 8.0	2	Initial Calibration Verification Standard							06/29/23 09:51	
pH		7.9	s.u.	0.1	99	98	102			
pH Measurement Temp		19.2	°C			0	0			
Lab ID: CCV - pH 7	2	Continuing Calibration Verification Standard							06/29/23 17:28	
pH		7.0	s.u.	0.1	101	98	102			
pH Measurement Temp		19.1	°C			0	0			
Method: A4500-H B									Batch: R296094	
Lab ID: C23061068-005ADUP	2	Sample Duplicate				Run: PHSC_101-C_230629A			06/29/23 18:31	
pH		7.5	s.u.	0.1				0.4	3	H
pH Measurement Temp		18.7	°C							

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

H - Analysis performed past the method holding time

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Highbury Resources **Work Order:** C23061079 **Report Date:** 07/12/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NO2 B									Analytical Run: SPECC-101_230703A	
Lab ID: CCV		Continuing Calibration Verification Standard							07/03/23 14:52	
Nitrogen, Nitrite as N		0.0508	mg/L	0.010	102	90	110			
Method: A4500-NO2 B									Batch: R296230	
Lab ID: MBLK		Method Blank				Run: SPECC-101_230703A			07/03/23 14:52	
Nitrogen, Nitrite as N		ND	mg/L	0.003						
Lab ID: LCS		Laboratory Control Sample				Run: SPECC-101_230703A			07/03/23 14:52	
Nitrogen, Nitrite as N		0.0505	mg/L	0.011	96	90	110			
Lab ID: C23061079-001AMS		Sample Matrix Spike				Run: SPECC-101_230703A			07/03/23 14:52	
Nitrogen, Nitrite as N		0.0509	mg/L	0.011	97	90	110			
Lab ID: C23061079-001AMSD		Sample Matrix Spike Duplicate				Run: SPECC-101_230703A			07/03/23 14:52	
Nitrogen, Nitrite as N		0.0542	mg/L	0.011	103	90	110	6.4	10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Highbury Resources **Work Order:** C23061079 **Report Date:** 07/12/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Analytical Run: IC3-C_230705A	
Lab ID: ICV	2	Initial Calibration Verification Standard							07/05/23 12:07	
Chloride		9.88	mg/L	1.0	99	90	110			
Sulfate		40.1	mg/L	1.0	100	90	110			
Lab ID: CCV	2	Continuing Calibration Verification Standard							07/05/23 17:07	
Chloride		20.3	mg/L	1.0	101	90	110			
Sulfate		81.0	mg/L	1.0	101	90	110			
Method: E300.0									Batch: R296408	
Lab ID: ICB	2	Method Blank				Run: IC3-C_230705A			07/05/23 12:24	
Chloride		ND	mg/L	0.03						
Sulfate		ND	mg/L	0.2						
Lab ID: LFB	2	Laboratory Fortified Blank				Run: IC3-C_230705A			07/05/23 12:42	
Chloride		9.33	mg/L	1.0	97	90	110			
Sulfate		38.3	mg/L	1.0	100	90	110			
Lab ID: C23061020-001AMS	2	Sample Matrix Spike				Run: IC3-C_230705A			07/05/23 17:42	
Chloride		94.9	mg/L	1.0	97	80	120			
Sulfate		87.5	mg/L	1.0	103	80	120			
Lab ID: C23061020-001AMSD	2	Sample Matrix Spike Duplicate				Run: IC3-C_230705A			07/05/23 18:00	
Chloride		91.4	mg/L	1.0	79	80	120	3.7	20	S
Sulfate		84.1	mg/L	1.0	99	80	120	4.0	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Highbury Resources **Work Order:** C23061079 **Report Date:** 07/12/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Analytical Run: FIA201-C_230705A
Lab ID: ICV		Initial Calibration Verification Standard								07/05/23 08:26
Nitrogen, Nitrate+Nitrite as N		0.966	mg/L	0.050	97	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard								07/05/23 08:45
Nitrogen, Nitrate+Nitrite as N		0.958	mg/L	0.050	96	90	110			
Method: E353.2										Batch: R296288
Lab ID: MBLK		Method Blank				Run: FIA201-C_230705A				07/05/23 08:27
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.02						
Lab ID: LFB		Laboratory Fortified Blank				Run: FIA201-C_230705A				07/05/23 08:28
Nitrogen, Nitrate+Nitrite as N		1.02	mg/L	0.050	103	90	110			
Lab ID: C23061068-005DMS		Sample Matrix Spike				Run: FIA201-C_230705A				07/05/23 08:48
Nitrogen, Nitrate+Nitrite as N		13.4	mg/L	0.10	104	90	110			
Lab ID: C23061068-005DMSD		Sample Matrix Spike Duplicate				Run: FIA201-C_230705A				07/05/23 08:50
Nitrogen, Nitrate+Nitrite as N		12.9	mg/L	0.10	95	90	110	3.5	10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Highbury Resources **Work Order:** C23061079 **Report Date:** 07/18/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Analytical Run: ICP2-HE_230704B
Lab ID: ICV	5	Initial Calibration Verification Standard								07/04/23 13:58
Boron		0.771	mg/L	0.10	96	95	105			
Calcium		39.6	mg/L	1.0	99	95	105			
Magnesium		38.4	mg/L	1.0	96	95	105			
Silicon		8.27	mg/L	1.0	103	95	105			
Strontium		0.806	mg/L	0.10	101	95	105			
Lab ID: CCV-1	5	Continuing Calibration Verification Standard								07/04/23 14:07
Boron		2.55	mg/L	0.10	102	95	105			
Calcium		25.7	mg/L	1.0	103	95	105			
Magnesium		24.6	mg/L	1.0	98	95	105			
Silicon		5.13	mg/L	1.0	103	95	105			
Strontium		2.59	mg/L	0.10	103	95	105			
Lab ID: CCV	5	Continuing Calibration Verification Standard								07/04/23 21:22
Boron		2.51	mg/L	0.10	100	90	110			
Calcium		25.2	mg/L	1.0	101	90	110			
Magnesium		26.9	mg/L	1.0	108	90	110			
Silicon		5.25	mg/L	1.0	105	90	110			
Strontium		2.58	mg/L	0.10	103	90	110			
Method: E200.7										Batch: R185976
Lab ID: MB	5	Method Blank				Run: ICP2-HE_230704B				07/04/23 14:31
Boron		0.007	mg/L	0.004						
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Silicon		ND	mg/L	0.03						
Strontium		ND	mg/L	0.0003						
Lab ID: LFB	5	Laboratory Fortified Blank				Run: ICP2-HE_230704B				07/04/23 14:35
Boron		0.975	mg/L	0.10	98	85	115			
Calcium		50.9	mg/L	1.0	102	85	115			
Magnesium		49.5	mg/L	1.0	99	85	115			
Silicon		10.6	mg/L	1.0	106	85	115			
Strontium		1.05	mg/L	0.10	105	85	115			
Lab ID: H23070025-001BMS2	6	Sample Matrix Spike				Run: ICP2-HE_230704B				07/04/23 21:41
Boron		4.99	mg/L	0.050	95	70	130			
Calcium		261	mg/L	1.0	97	70	130			
Magnesium		264	mg/L	1.0	101	70	130			
Silicon		60.5	mg/L	0.17	106	70	130			
Strontium		5.06	mg/L	0.010	98	70	130			
Silica		129	mg/L	0.37	106	70	130			
Lab ID: H23070025-001BMSD2	6	Sample Matrix Spike Duplicate				Run: ICP2-HE_230704B				07/04/23 21:45
Boron		5.07	mg/L	0.050	96	70	130	1.7	20	
Calcium		257	mg/L	1.0	95	70	130	1.5	20	
Magnesium		264	mg/L	1.0	102	70	130	0	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Highbury Resources **Work Order:** C23061079 **Report Date:** 07/18/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R185976
Lab ID: H23070025-001BMSD2	6	Sample Matrix Spike Duplicate				Run: ICP2-HE_230704B			07/04/23 21:45	
Silicon		59.9	mg/L	0.17	105	70	130	1.0	20	
Strontium		5.08	mg/L	0.010	98	70	130	0.3	20	
Silica		128	mg/L	0.37	105	70	130	1.0	20	
Method: E200.7										Analytical Run: ICP2-HE_230705A
Lab ID: ICV		Initial Calibration Verification Standard							07/05/23 13:18	
Sodium		39.8	mg/L	1.0	100	95	105			
Lab ID: CCV		Continuing Calibration Verification Standard							07/05/23 16:28	
Sodium		24.5	mg/L	1.0	98	90	110			
Method: E200.7										Batch: R186054
Lab ID: MB		Method Blank				Run: ICP2-HE_230705A			07/05/23 13:45	
Sodium		0.1	mg/L	0.03						
Lab ID: LFB		Laboratory Fortified Blank				Run: ICP2-HE_230705A			07/05/23 13:49	
Sodium		52.6	mg/L	1.0	105	85	115			
Lab ID: H23061260-001AMS2		Sample Matrix Spike				Run: ICP2-HE_230705A			07/05/23 17:04	
Sodium		801	mg/L	1.0		70	130			A
Lab ID: H23061260-001AMSD2		Sample Matrix Spike Duplicate				Run: ICP2-HE_230705A			07/05/23 17:08	
Sodium		797	mg/L	1.0		70	130	0.5	20	A

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

A - Analyte level was greater than four times the spike level - in accordance with the method, percent recovery is not calculated

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Highbury Resources **Work Order:** C23061079 **Report Date:** 07/18/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Analytical Run: ICPMS206-H_230712B
Lab ID: ICV	18	Initial Calibration Verification Standard								07/13/23 15:53
Antimony		0.0616	mg/L	0.050	103	90	110			
Arsenic		0.0603	mg/L	0.0050	100	90	110			
Barium		0.0614	mg/L	0.10	102	90	110			
Beryllium		0.0293	mg/L	0.0010	98	90	110			
Cadmium		0.0313	mg/L	0.0010	104	90	110			
Chromium		0.0605	mg/L	0.010	101	90	110			
Cobalt		0.0584	mg/L	0.010	97	90	110			
Copper		0.0604	mg/L	0.010	101	90	110			
Iron		0.302	mg/L	0.020	101	90	110			
Lead		0.0607	mg/L	0.010	101	90	110			
Manganese		0.308	mg/L	0.010	103	90	110			
Molybdenum		0.0592	mg/L	0.0050	99	90	110			
Nickel		0.0603	mg/L	0.010	100	90	110			
Potassium		3.08	mg/L	0.50	103	90	110			
Silver		0.0303	mg/L	0.0050	101	90	110			
Uranium		0.0600	mg/L	0.00030	100	90	110			
Vanadium		0.0599	mg/L	0.10	100	90	110			
Zinc		0.0614	mg/L	0.010	102	90	110			
Lab ID: CCV	18	Continuing Calibration Verification Standard								07/13/23 21:11
Antimony		0.0512	mg/L	0.050	102	90	110			
Arsenic		0.0507	mg/L	0.0050	101	90	110			
Barium		0.0512	mg/L	0.10	102	90	110			
Beryllium		0.0489	mg/L	0.0010	98	90	110			
Cadmium		0.0518	mg/L	0.0010	104	90	110			
Chromium		0.0512	mg/L	0.010	102	90	110			
Cobalt		0.0495	mg/L	0.010	99	90	110			
Copper		0.0510	mg/L	0.010	102	90	110			
Iron		1.31	mg/L	0.020	101	90	110			
Lead		0.0497	mg/L	0.010	99	90	110			
Manganese		0.0510	mg/L	0.010	102	90	110			
Molybdenum		0.0505	mg/L	0.0050	101	90	110			
Nickel		0.0509	mg/L	0.010	102	90	110			
Potassium		13.0	mg/L	0.50	104	90	110			
Silver		0.0206	mg/L	0.0050	103	90	110			
Uranium		0.0513	mg/L	0.00030	103	90	110			
Vanadium		0.0506	mg/L	0.10	101	90	110			
Zinc		0.0524	mg/L	0.010	105	90	110			
Method: E200.8										Batch: R186267
Lab ID: LRB	18	Method Blank				Run: ICPMS206-H_230712B				07/12/23 15:17
Antimony		ND	mg/L	0.00002						
Arsenic		ND	mg/L	6E-06						
Barium		ND	mg/L	0.0003						
Beryllium		ND	mg/L	0.00003						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Highbury Resources **Work Order:** C23061079 **Report Date:** 07/18/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R186267
Lab ID: LRB	18	Method Blank				Run: ICPMS206-H_230712B				07/12/23 15:17
Cadmium		ND	mg/L	7E-06						
Chromium		ND	mg/L	0.00001						
Cobalt		ND	mg/L	0.00001						
Copper		ND	mg/L	0.00004						
Iron		ND	mg/L	0.0007						
Lead		ND	mg/L	0.00002						
Manganese		ND	mg/L	0.00005						
Molybdenum		ND	mg/L	7E-06						
Nickel		ND	mg/L	0.00003						
Potassium		ND	mg/L	0.02						
Silver		ND	mg/L	3E-06						
Uranium		ND	mg/L	3E-06						
Vanadium		ND	mg/L	0.00001						
Zinc		ND	mg/L	0.0007						
Lab ID: LFB	18	Laboratory Fortified Blank				Run: ICPMS206-H_230712B				07/12/23 15:21
Antimony		0.0465	mg/L	0.050	93	85	115			
Arsenic		0.0478	mg/L	0.0050	95	85	115			
Barium		0.0477	mg/L	0.10	95	85	115			
Beryllium		0.0500	mg/L	0.0010	100	85	115			
Cadmium		0.0484	mg/L	0.0010	97	85	115			
Chromium		0.0477	mg/L	0.010	95	85	115			
Cobalt		0.0485	mg/L	0.010	97	85	115			
Copper		0.0487	mg/L	0.010	97	85	115			
Iron		0.150	mg/L	0.020	100	85	115			
Lead		0.0466	mg/L	0.010	93	85	115			
Manganese		0.0483	mg/L	0.010	97	85	115			
Molybdenum		0.0481	mg/L	0.0050	96	85	115			
Nickel		0.0486	mg/L	0.010	97	85	115			
Potassium		1.02	mg/L	0.50	102	85	115			
Silver		0.0191	mg/L	0.0050	96	85	115			
Uranium		0.0461	mg/L	0.00030	92	85	115			
Vanadium		0.0474	mg/L	0.10	95	85	115			
Zinc		0.0522	mg/L	0.010	104	85	115			
Lab ID: C23061079-001BMS	18	Sample Matrix Spike				Run: ICPMS206-H_230712B				07/13/23 21:57
Antimony		0.0471	mg/L	0.0010	94	70	130			
Arsenic		0.0492	mg/L	0.0010	98	70	130			
Barium		0.0728	mg/L	0.050	101	70	130			
Beryllium		0.0461	mg/L	0.0010	92	70	130			
Cadmium		0.0470	mg/L	0.0010	93	70	130			
Chromium		0.0498	mg/L	0.0050	98	70	130			
Cobalt		0.0470	mg/L	0.0050	93	70	130			
Copper		0.0518	mg/L	0.0050	95	70	130			
Iron		0.151	mg/L	0.020	99	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Highbury Resources **Work Order:** C23061079 **Report Date:** 07/18/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R186267
Lab ID: C23061079-001BMS	18	Sample Matrix Spike				Run: ICPMS206-H_230712B				07/13/23 21:57
Lead		0.0481	mg/L	0.0010	96	70	130			
Manganese		0.0568	mg/L	0.0010	97	70	130			
Molybdenum		0.103	mg/L	0.0010	105	70	130			
Nickel		0.0512	mg/L	0.0050	94	70	130			
Potassium		29.0	mg/L	1.0		70	130			A
Silver		0.0160	mg/L	0.0010	80	70	130			
Uranium		0.244	mg/L	0.00030		70	130			A
Vanadium		0.0504	mg/L	0.010	100	70	130			
Zinc		0.0763	mg/L	0.010	89	70	130			
Lab ID: C23061079-001BMSD	18	Sample Matrix Spike Duplicate				Run: ICPMS206-H_230712B				07/13/23 22:01
Antimony		0.0449	mg/L	0.0010	89	70	130	4.9	20	
Arsenic		0.0487	mg/L	0.0010	97	70	130	1.1	20	
Barium		0.0706	mg/L	0.050	97	70	130	3.0	20	
Beryllium		0.0462	mg/L	0.0010	92	70	130	0.2	20	
Cadmium		0.0462	mg/L	0.0010	92	70	130	1.7	20	
Chromium		0.0500	mg/L	0.0050	99	70	130	0.5	20	
Cobalt		0.0472	mg/L	0.0050	93	70	130	0.5	20	
Copper		0.0516	mg/L	0.0050	95	70	130	0.3	20	
Iron		0.152	mg/L	0.020	100	70	130	0.4	20	
Lead		0.0485	mg/L	0.0010	97	70	130	0.8	20	
Manganese		0.0574	mg/L	0.0010	98	70	130	1.0	20	
Molybdenum		0.101	mg/L	0.0010	100	70	130	2.3	20	
Nickel		0.0517	mg/L	0.0050	95	70	130	1.1	20	
Potassium		29.1	mg/L	1.0		70	130	0.4	20	A
Silver		0.0164	mg/L	0.0010	82	70	130	2.0	20	
Uranium		0.254	mg/L	0.00030		70	130	4.1	20	A
Vanadium		0.0509	mg/L	0.010	101	70	130	1.0	20	
Zinc		0.0772	mg/L	0.010	91	70	130	1.1	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

A - Analyte level was greater than four times the spike level - in accordance with the method, percent recovery is not calculated

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Highbury Resources **Work Order:** C23061079 **Report Date:** 07/18/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Analytical Run: ICPMS206-H_230714A	
Lab ID: ICV	2	Initial Calibration Verification Standard							07/14/23 11:20	
Aluminum		0.293	mg/L	0.10	98	90	110			
Lithium		0.0568	mg/L	0.10	95	90	110			
Lab ID: CCV	2	Continuing Calibration Verification Standard							07/14/23 19:09	
Aluminum		0.0534	mg/L	0.10	107	90	110			
Lithium		0.622	mg/L	0.10	99	90	110			
Method: E200.8									Batch: R186293	
Lab ID: LRB	2	Method Blank				Run: ICPMS206-H_230714A			07/14/23 12:58	
Aluminum		ND	mg/L	0.002						
Lithium		ND	mg/L	0.0001						
Lab ID: LFB	2	Laboratory Fortified Blank				Run: ICPMS206-H_230714A			07/14/23 13:01	
Aluminum		0.0463	mg/L	0.10	93	85	115			
Lithium		0.0517	mg/L	0.10	103	85	115			
Lab ID: H23070188-001BMS	2	Sample Matrix Spike				Run: ICPMS206-H_230714A			07/14/23 19:56	
Aluminum		0.107	mg/L	0.030	101	70	130			
Lithium		0.176	mg/L	0.10	114	70	130			
Lab ID: H23070188-001BMSD	2	Sample Matrix Spike Duplicate				Run: ICPMS206-H_230714A			07/14/23 19:59	
Aluminum		0.110	mg/L	0.030	104	70	130	2.5	20	
Lithium		0.177	mg/L	0.10	114	70	130	0.5	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Highbury Resources **Work Order:** C23061079 **Report Date:** 07/18/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Analytical Run: HGCV205-H_230713A	
Lab ID: ICV		Initial Calibration Verification Standard							07/13/23 13:26	
Mercury		0.000995	mg/L	0.00010	99	90	110			
Lab ID: CCV1		Continuing Calibration Verification Standard							07/13/23 13:28	
Mercury		0.00251	mg/L	0.00010	101	95	105			
Lab ID: CCV		Continuing Calibration Verification Standard							07/13/23 13:59	
Mercury		0.00249	mg/L	0.00010	100	90	110			
Method: E245.1									Batch: 67278	
Lab ID: MB-67278		Method Blank				Run: HGCV205-H_230713A			07/13/23 13:33	
Mercury		ND	mg/L	0.00002						
Lab ID: LCS-67278		Laboratory Control Sample				Run: HGCV205-H_230713A			07/13/23 13:35	
Mercury		0.000525	mg/L	0.00010	105	85	115			
Lab ID: H23060949-005DMS		Sample Matrix Spike				Run: HGCV205-H_230713A			07/13/23 14:05	
Mercury		0.00106	mg/L	0.00010	106	70	130			
Lab ID: H23060949-005DMSD		Sample Matrix Spike Duplicate				Run: HGCV205-H_230713A			07/13/23 14:07	
Mercury		0.00105	mg/L	0.00010	105	70	130	1.0	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Highbury Resources **Work Order:** C23061079 **Report Date:** 07/24/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0										Batch: GrAB-3205
Lab ID: Th230-GrAB-3205	3	Laboratory Control Sample				Run: TENNELEC-4_230712A				07/18/23 03:02
Gross Alpha		110	pCi/L		105	70	130			
Gross Alpha precision (±)		21	pCi/L							
Gross Alpha MDC		1.5	pCi/L							
Lab ID: Sr90-GrAB-3205	3	Laboratory Control Sample				Run: TENNELEC-4_230712A				07/18/23 03:02
Gross Beta		460	pCi/L		97	70	130			
Gross Beta precision (±)		47	pCi/L							
Gross Beta MDC		2.1	pCi/L							
Lab ID: MB-GrAB-3205	6	Method Blank				Run: TENNELEC-4_230712A				07/18/23 03:02
Gross Alpha		-5	pCi/L							U
Gross Alpha precision (±)		0.8	pCi/L							
Gross Alpha MDC		2	pCi/L							
Gross Beta		0.03	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		2	pCi/L							
Lab ID: C23061049-020AMS	3	Sample Matrix Spike				Run: TENNELEC-4_230712A				07/18/23 03:02
Gross Alpha		600	pCi/L		123	70	130			
Gross Alpha precision (±)		120	pCi/L							
Gross Alpha MDC		19	pCi/L							
Lab ID: C23061049-020AMSD	3	Sample Matrix Spike Duplicate				Run: TENNELEC-4_230712A				07/18/23 03:02
Gross Alpha		680	pCi/L		138	70	130	12	30	S
Gross Alpha precision (±)		140	pCi/L							
Gross Alpha MDC		21	pCi/L							
- The RER result is 0.44										
Lab ID: C23061079-001DMS1	3	Sample Matrix Spike				Run: TENNELEC-4_230712A				07/18/23 03:02
Gross Beta		980	pCi/L		96	70	130			
Gross Beta precision (±)		100	pCi/L							
Gross Beta MDC		4.7	pCi/L							
Lab ID: C23061079-001DMSD1	3	Sample Matrix Spike Duplicate				Run: TENNELEC-4_230712A				07/18/23 03:02
Gross Beta		970	pCi/L		95	70	130	0.8	30	
Gross Beta precision (±)		99	pCi/L							
Gross Beta MDC		4.7	pCi/L							
- The RER result is 0.05										

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits

U - Not detected at Minimum Detectable Concentration (MDC)

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Highbury Resources **Work Order:** C23061079 **Report Date:** 07/24/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-10956R
Lab ID: LCS-RA226-10956	3	Laboratory Control Sample				Run: TENNELEC-3_230705B				07/19/23 13:49
Radium 226		10	pCi/L		100	70	130			
Radium 226 precision (±)		2.0	pCi/L							
Radium 226 MDC		0.18	pCi/L							
Lab ID: MB-RA226-10956	3	Method Blank				Run: TENNELEC-3_230705B				07/19/23 13:49
Radium 226		-0.03	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.3	pCi/L							
Lab ID: C23061079-001DDUP	3	Sample Duplicate				Run: TENNELEC-3_230705B				07/19/23 13:49
Radium 226		4.2	pCi/L					19	30	
Radium 226 precision (±)		0.88	pCi/L							
Radium 226 MDC		0.20	pCi/L							

- The RER result is 1.3.

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

U - Not detected at Minimum Detectable Concentration (MDC)

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Highbury Resources **Work Order:** C23061079 **Report Date:** 07/24/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-7140
Lab ID: LCS-228-RA226-10956	3	Laboratory Control Sample				Run: TENNELEC-4_230705C				07/14/23 11:46
Radium 228		6.4	pCi/L		92	70	130			
Radium 228 precision (±)		1.4	pCi/L							
Radium 228 MDC		1.0	pCi/L							
Lab ID: MB-RA226-10956	3	Method Blank				Run: TENNELEC-4_230705C				07/14/23 11:46
Radium 228		-0.2	pCi/L							U
Radium 228 precision (±)		0.6	pCi/L							
Radium 228 MDC		1	pCi/L							
Lab ID: C23061079-001DDUP	3	Sample Duplicate				Run: TENNELEC-4_230705C				07/14/23 11:46
Radium 228		0.54	pCi/L					100	30	UR
Radium 228 precision (±)		0.61	pCi/L							
Radium 228 MDC		0.96	pCi/L							

- Duplicate RPD is outside of the acceptance range for this analysis. However, the RER is less than or equal to the limit of 3, the RER result is 0.45.

Qualifiers:

RL - Analyte Reporting Limit

R - Relative Percent Difference (RPD) exceeds advisory limit

ND - Not detected at the Reporting Limit (RL)

U - Not detected at Minimum Detectable Concentration (MDC)

Work Order Receipt Checklist

Highbury Resources

C23061079

Login completed by: Selena J. Fowler
Date Received: 6/29/2023
Reviewed by: mstephens
Received by: slr
Reviewed Date: 7/4/2023
Carrier name: FedEx

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:	1.0°C On 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.

Contact and Corrective Action Comments:

None

C23061079

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Chain of Custody & Analytical Request Record

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Page 1 of 1

Account Information (Billing information)

Company/Name	Highbury Resources
Contact	Mallory Pottorff
Phone	970-712-0232
Mailing Address	Nucla, CO 81424
City, State, Zip	PO Box 700
Email	Highbury.MPOTTORFF@gmail.com
Receive Invoice	☒ Hard Copy ☒ Email
Receive Report	☐ Hard Copy ☒ Email
Purchase Order	
Quote	5556
Bottle Order	74742

Report Information (if different than Account Information)

Company/Name	
Contact	
Phone	
Mailing Address	
City, State, Zip	
Email	
Receive Report	☐ Hard Copy ☐ Email
Special Report/Formats:	☐ LEVEL IV ☐ NELAC ☐ EDD/EDT (contact laboratory) ☐ Other

Comments

JD-9 Monitoring Well Sample

2nd Quarter 2023

Project Information

Project Name, PWSID, Permit, etc.	JD-9 MW
Sampler Name	Pottorff. S.
Sampler Phone	970 433 1940
Sample Origin State	CO
EPA/State Compliance	☐ Yes ☒ No

URANIUM MINING CLIENTS MUST indicate sample type
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)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 - Oil
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	See Attached	RUSH TAT	ELI LAB ID (Laboratory Use Only)
1	N6064	6·26·23	10 AM	1	W				
2	N6064	6·26·23	10 AM	1	W				
3	N6064	6·26·23	10 AM	1	W				
4	N6064	6·26·23	10 AM	1	W				
5									
6									
7									
8									
9									

ELI is REQUIRED to provide preservative traceability. If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC.

Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	SCOTT POTTORFF	6·26·23	Scott Pott		6-29-23	
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
		10:15am		Shelby Richins	950	

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-01/21 v.4