

Hit Summary Sheet SW-846

SDG No.: Q3649 **Order ID:** Q3649
Client: HDR, Inc. **Project ID:** PVWC Linear Construction

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B5-0.0-0.5-20251114								
Q3649-01	B5-0.0-0.5-20251114	SOIL	Aluminum	4950		0.81	4.80	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Arsenic	3.01		0.18	0.96	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Barium	42.5		0.70	4.80	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Beryllium	0.43		0.024	0.29	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Cadmium	1.04		0.023	0.29	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Calcium	8580		10.7	96.0	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Chromium	14.9		0.045	0.48	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Cobalt	6.33		0.096	1.44	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Copper	4.32		0.21	0.96	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Iron	14200		3.83	4.80	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Lead	9.94		0.13	0.58	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Magnesium	1390		11.5	96.0	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Manganese	508		0.13	0.96	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Nickel	10.8		0.13	1.92	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Potassium	446		26.6	96.0	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Sodium	176		17.1	96.0	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Thallium	0.38	J	0.22	1.92	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Vanadium	17.5		0.24	1.92	mg/Kg
Q3649-01	B5-0.0-0.5-20251114	SOIL	Zinc	25.3		0.22	1.92	mg/Kg
Client ID : DUPE-0.0-0.5-20251114								
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Aluminum	6960		0.88	5.21	mg/Kg
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Arsenic	3.04		0.20	1.04	mg/Kg
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Barium	35.6		0.76	5.21	mg/Kg
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Beryllium	0.47		0.026	0.31	mg/Kg
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Cadmium	1.09		0.025	0.31	mg/Kg
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Calcium	1520		11.6	104	mg/Kg
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Chromium	17.0		0.049	0.52	mg/Kg
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Cobalt	6.76		0.10	1.56	mg/Kg
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Copper	18.2		0.23	1.04	mg/Kg
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Iron	15400		4.16	5.21	mg/Kg
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Lead	81.1		0.14	0.63	mg/Kg
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Magnesium	1490		12.5	104	mg/Kg
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Manganese	359		0.15	1.04	mg/Kg
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Mercury	0.044		0.0080	0.014	mg/Kg
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Nickel	13.0		0.14	2.08	mg/Kg
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Potassium	498		28.8	104	mg/Kg
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Sodium	308		18.5	104	mg/Kg

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Project ID: PVWC Linear Construction

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Vanadium	19.0		0.26	2.08	mg/Kg
Q3649-03	DUPE-0.0-0.5-20251114	SOIL	Zinc	83.7		0.24	2.08	mg/Kg
Client ID : B4-0.0-0.5-20251114								
Q3649-06	B4-0.0-0.5-20251114	SOIL	Aluminum	5000		0.83	4.93	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Arsenic	1.88		0.19	0.99	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Barium	26.0		0.72	4.93	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Beryllium	0.41		0.025	0.30	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Cadmium	1.09		0.024	0.30	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Calcium	1180		10.9	98.6	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Chromium	11.3		0.046	0.49	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Cobalt	6.43		0.099	1.48	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Copper	2.16		0.22	0.99	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Iron	13400		3.93	4.93	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Lead	14.5		0.13	0.59	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Magnesium	1090		11.8	98.6	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Manganese	382		0.14	0.99	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Mercury	0.020		0.0070	0.013	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Nickel	11.7		0.13	1.97	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Potassium	483		27.3	98.6	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Sodium	290		17.5	98.6	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Thallium	0.38	J	0.23	1.97	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Vanadium	12.9		0.25	1.97	mg/Kg
Q3649-06	B4-0.0-0.5-20251114	SOIL	Zinc	23.1		0.23	1.97	mg/Kg
Client ID : B3-0.0-0.5-20251114								
Q3649-08	B3-0.0-0.5-20251114	SOIL	Aluminum	5700		0.94	5.59	mg/Kg
Q3649-08	B3-0.0-0.5-20251114	SOIL	Arsenic	2.62		0.21	1.12	mg/Kg
Q3649-08	B3-0.0-0.5-20251114	SOIL	Barium	26.2		0.82	5.59	mg/Kg
Q3649-08	B3-0.0-0.5-20251114	SOIL	Beryllium	0.42		0.028	0.34	mg/Kg
Q3649-08	B3-0.0-0.5-20251114	SOIL	Cadmium	0.86		0.027	0.34	mg/Kg
Q3649-08	B3-0.0-0.5-20251114	SOIL	Calcium	1250		12.4	112	mg/Kg
Q3649-08	B3-0.0-0.5-20251114	SOIL	Chromium	10.4		0.053	0.56	mg/Kg
Q3649-08	B3-0.0-0.5-20251114	SOIL	Cobalt	5.68		0.11	1.68	mg/Kg
Q3649-08	B3-0.0-0.5-20251114	SOIL	Copper	2.72		0.25	1.12	mg/Kg
Q3649-08	B3-0.0-0.5-20251114	SOIL	Iron	13900		4.46	5.59	mg/Kg
Q3649-08	B3-0.0-0.5-20251114	SOIL	Lead	14.6		0.14	0.67	mg/Kg
Q3649-08	B3-0.0-0.5-20251114	SOIL	Magnesium	1020		13.4	112	mg/Kg
Q3649-08	B3-0.0-0.5-20251114	SOIL	Manganese	471		0.16	1.12	mg/Kg
Q3649-08	B3-0.0-0.5-20251114	SOIL	Mercury	0.018		0.0090	0.015	mg/Kg
Q3649-08	B3-0.0-0.5-20251114	SOIL	Nickel	8.01		0.14	2.24	mg/Kg

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SDG No.: Q3649

Order ID: Q3649

Client: HDR, Inc.

Project ID: PVWC Linear Construction

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3649-08	B3-0.0-0.5-20251114	SOIL	Potassium	422		31.0	112	mg/Kg
Q3649-08	B3-0.0-0.5-20251114	SOIL	Sodium	29.0	J	19.9	112	mg/Kg
Q3649-08	B3-0.0-0.5-20251114	SOIL	Vanadium	17.2		0.28	2.24	mg/Kg
Q3649-08	B3-0.0-0.5-20251114	SOIL	Zinc	21.8		0.26	2.24	mg/Kg



SAMPLE DATA

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: B5-0.0-0.5-20251114
Lab Sample ID: Q3649-01
Level (low/med): low

Date Collected: 11/14/25
Date Received: 11/14/25
SDG No.: Q3649
Matrix: SOIL
% Solid: 90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4950		1	0.81	4.80	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7440-36-0	Antimony	0.21	UN	1	0.21	2.40	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7440-38-2	Arsenic	3.01		1	0.18	0.96	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7440-39-3	Barium	42.5	N	1	0.70	4.80	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7440-41-7	Beryllium	0.43	N	1	0.024	0.29	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7440-43-9	Cadmium	1.04		1	0.023	0.29	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7440-70-2	Calcium	8580		1	10.7	96.0	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7440-47-3	Chromium	14.9		1	0.045	0.48	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7440-48-4	Cobalt	6.33		1	0.096	1.44	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7440-50-8	Copper	4.32		1	0.21	0.96	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7439-89-6	Iron	14200		1	3.83	4.80	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7439-92-1	Lead	9.94		1	0.13	0.58	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7439-95-4	Magnesium	1390		1	11.5	96.0	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7439-96-5	Manganese	508		1	0.13	0.96	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7439-97-6	Mercury	0.0080	UN	1	0.0080	0.014	mg/Kg	11/17/25 16:10	11/18/25 10:29	7471B	M7471B
7440-02-0	Nickel	10.8		1	0.13	1.92	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7440-09-7	Potassium	446		1	26.6	96.0	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7782-49-2	Selenium	0.25	UN	1	0.25	0.96	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7440-22-4	Silver	0.12	UN	1	0.12	0.48	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7440-23-5	Sodium	176		1	17.1	96.0	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7440-28-0	Thallium	0.38	J	1	0.22	1.92	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7440-62-2	Vanadium	17.5		1	0.24	1.92	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050
7440-66-6	Zinc	25.3		1	0.22	1.92	mg/Kg	11/17/25 10:45	11/17/25 17:08	6010D	SW3050

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: DUPE-0.0-0.5-20251114
Lab Sample ID: Q3649-03
Level (low/med): low

Date Collected: 11/14/25
Date Received: 11/14/25
SDG No.: Q3649
Matrix: SOIL
% Solid: 86.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6960		1	0.88	5.21	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.60	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7440-38-2	Arsenic	3.04		1	0.20	1.04	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7440-39-3	Barium	35.6	N	1	0.76	5.21	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7440-41-7	Beryllium	0.47	N	1	0.026	0.31	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7440-43-9	Cadmium	1.09		1	0.025	0.31	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7440-70-2	Calcium	1520		1	11.6	104	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7440-47-3	Chromium	17.0		1	0.049	0.52	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7440-48-4	Cobalt	6.76		1	0.10	1.56	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7440-50-8	Copper	18.2		1	0.23	1.04	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7439-89-6	Iron	15400		1	4.16	5.21	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7439-92-1	Lead	81.1		1	0.14	0.63	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7439-95-4	Magnesium	1490		1	12.5	104	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7439-96-5	Manganese	359		1	0.15	1.04	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7439-97-6	Mercury	0.044	N	1	0.0080	0.014	mg/Kg	11/17/25 16:10	11/18/25 10:36	7471B	M7471B
7440-02-0	Nickel	13.0		1	0.14	2.08	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7440-09-7	Potassium	498		1	28.8	104	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7782-49-2	Selenium	0.27	UN	1	0.27	1.04	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7440-22-4	Silver	0.13	UN	1	0.13	0.52	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7440-23-5	Sodium	308		1	18.5	104	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.08	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7440-62-2	Vanadium	19.0		1	0.26	2.08	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050
7440-66-6	Zinc	83.7		1	0.24	2.08	mg/Kg	11/17/25 10:45	11/17/25 17:12	6010D	SW3050

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J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: B4-0.0-0.5-20251114
Lab Sample ID: Q3649-06
Level (low/med): low

Date Collected: 11/14/25
Date Received: 11/14/25
SDG No.: Q3649
Matrix: SOIL
% Solid: 91.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5000		1	0.83	4.93	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.46	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7440-38-2	Arsenic	1.88		1	0.19	0.99	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7440-39-3	Barium	26.0	N	1	0.72	4.93	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7440-41-7	Beryllium	0.41	N	1	0.025	0.30	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7440-43-9	Cadmium	1.09		1	0.024	0.30	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7440-70-2	Calcium	1180		1	10.9	98.6	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7440-47-3	Chromium	11.3		1	0.046	0.49	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7440-48-4	Cobalt	6.43		1	0.099	1.48	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7440-50-8	Copper	2.16		1	0.22	0.99	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7439-89-6	Iron	13400		1	3.93	4.93	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7439-92-1	Lead	14.5		1	0.13	0.59	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7439-95-4	Magnesium	1090		1	11.8	98.6	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7439-96-5	Manganese	382		1	0.14	0.99	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7439-97-6	Mercury	0.020	N	1	0.0070	0.013	mg/Kg	11/17/25 16:10	11/18/25 10:44	7471B	M7471B
7440-02-0	Nickel	11.7		1	0.13	1.97	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7440-09-7	Potassium	483		1	27.3	98.6	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7782-49-2	Selenium	0.26	UN	1	0.26	0.99	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7440-22-4	Silver	0.12	UN	1	0.12	0.49	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7440-23-5	Sodium	290		1	17.5	98.6	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7440-28-0	Thallium	0.38	J	1	0.23	1.97	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7440-62-2	Vanadium	12.9		1	0.25	1.97	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050
7440-66-6	Zinc	23.1		1	0.23	1.97	mg/Kg	11/17/25 10:45	11/17/25 17:16	6010D	SW3050

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: B3-0.0-0.5-20251114
Lab Sample ID: Q3649-08
Level (low/med): low

Date Collected: 11/14/25
Date Received: 11/14/25
SDG No.: Q3649
Matrix: SOIL
% Solid: 86

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5700		1	0.94	5.59	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7440-36-0	Antimony	0.25	UN	1	0.25	2.80	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7440-38-2	Arsenic	2.62		1	0.21	1.12	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7440-39-3	Barium	26.2	N	1	0.82	5.59	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7440-41-7	Beryllium	0.42	N	1	0.028	0.34	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7440-43-9	Cadmium	0.86		1	0.027	0.34	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7440-70-2	Calcium	1250		1	12.4	112	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7440-47-3	Chromium	10.4		1	0.053	0.56	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7440-48-4	Cobalt	5.68		1	0.11	1.68	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7440-50-8	Copper	2.72		1	0.25	1.12	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7439-89-6	Iron	13900		1	4.46	5.59	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7439-92-1	Lead	14.6		1	0.14	0.67	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7439-95-4	Magnesium	1020		1	13.4	112	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7439-96-5	Manganese	471		1	0.16	1.12	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7439-97-6	Mercury	0.018	N	1	0.0090	0.015	mg/Kg	11/17/25 16:10	11/18/25 10:55	7471B	M7471B
7440-02-0	Nickel	8.01		1	0.14	2.24	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7440-09-7	Potassium	422		1	31.0	112	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7782-49-2	Selenium	0.29	UN	1	0.29	1.12	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7440-22-4	Silver	0.13	UN	1	0.13	0.56	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7440-23-5	Sodium	29.0	J	1	19.9	112	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7440-28-0	Thallium	0.26	U	1	0.26	2.24	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7440-62-2	Vanadium	17.2		1	0.28	2.24	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050
7440-66-6	Zinc	21.8		1	0.26	2.24	mg/Kg	11/17/25 10:45	11/17/25 17:49	6010D	SW3050

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB119	Mercury	0.076	+/-0.2	U	0.20	CV	11/18/2025	09:56	LB137932

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB07	Mercury	0.076	+/-0.2	U	0.20	CV	11/18/2025	10:03	LB137932
CCB08	Mercury	0.076	+/-0.2	U	0.20	CV	11/18/2025	10:34	LB137932
CCB09	Mercury	0.076	+/-0.2	U	0.20	CV	11/18/2025	11:05	LB137932
CCB10	Mercury	0.076	+/-0.2	U	0.20	CV	11/18/2025	11:21	LB137932

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	32.3	+/-50	J	100	P	11/17/2025	13:31	LB137929
	Antimony	6.76	+/-25	U	50.0	P	11/17/2025	13:31	LB137929
	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	13:31	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	13:31	LB137929
	Beryllium	0.56	+/-3	U	6.00	P	11/17/2025	13:31	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	13:31	LB137929
	Calcium	234	+/-1000	U	2000	P	11/17/2025	13:31	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	13:31	LB137929
	Cobalt	2.26	+/-15	U	30.0	P	11/17/2025	13:31	LB137929
	Copper	4.60	+/-10	U	20.0	P	11/17/2025	13:31	LB137929
	Iron	23.4	+/-50	U	100	P	11/17/2025	13:31	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	13:31	LB137929
	Magnesium	244	+/-1000	U	2000	P	11/17/2025	13:31	LB137929
	Manganese	5.94	+/-10	U	20.0	P	11/17/2025	13:31	LB137929
	Nickel	3.06	+/-20	U	40.0	P	11/17/2025	13:31	LB137929
	Potassium	918	+/-1000	U	2000	P	11/17/2025	13:31	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	13:31	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	13:31	LB137929
	Sodium	868	+/-1000	U	2000	P	11/17/2025	13:31	LB137929
	Thallium	4.38	+/-20	U	40.0	P	11/17/2025	13:31	LB137929
	Vanadium	6.26	+/-20	U	40.0	P	11/17/2025	13:31	LB137929
	Zinc	16.7	+/-20	U	40.0	P	11/17/2025	13:31	LB137929

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649
Contract: HDRI08 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	100	P	11/17/2025	14:01	LB137929
	Antimony	6.76	+/-25	U	50.0	P	11/17/2025	14:01	LB137929
	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	14:01	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	14:01	LB137929
	Beryllium	0.56	+/-3	U	6.00	P	11/17/2025	14:01	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	14:01	LB137929
	Calcium	234	+/-1000	U	2000	P	11/17/2025	14:01	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	14:01	LB137929
	Cobalt	2.26	+/-15	U	30.0	P	11/17/2025	14:01	LB137929
	Copper	4.60	+/-10	U	20.0	P	11/17/2025	14:01	LB137929
	Iron	23.4	+/-50	U	100	P	11/17/2025	14:01	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	14:01	LB137929
	Magnesium	244	+/-1000	U	2000	P	11/17/2025	14:01	LB137929
	Manganese	5.94	+/-10	U	20.0	P	11/17/2025	14:01	LB137929
	Nickel	3.06	+/-20	U	40.0	P	11/17/2025	14:01	LB137929
	Potassium	918	+/-1000	U	2000	P	11/17/2025	14:01	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	14:01	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	14:01	LB137929
	Sodium	868	+/-1000	U	2000	P	11/17/2025	14:01	LB137929
	Thallium	4.38	+/-20	U	40.0	P	11/17/2025	14:01	LB137929
	Vanadium	6.26	+/-20	U	40.0	P	11/17/2025	14:01	LB137929
	Zinc	16.7	+/-20	U	40.0	P	11/17/2025	14:01	LB137929
CCB02	Aluminum	11.3	+/-50	U	100	P	11/17/2025	14:51	LB137929
	Antimony	6.76	+/-25	U	50.0	P	11/17/2025	14:51	LB137929
	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	14:51	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	14:51	LB137929
	Beryllium	0.56	+/-3	U	6.00	P	11/17/2025	14:51	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	14:51	LB137929
	Calcium	234	+/-1000	U	2000	P	11/17/2025	14:51	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	14:51	LB137929
	Cobalt	2.26	+/-15	U	30.0	P	11/17/2025	14:51	LB137929
	Copper	4.60	+/-10	U	20.0	P	11/17/2025	14:51	LB137929
	Iron	23.4	+/-50	U	100	P	11/17/2025	14:51	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	14:51	LB137929
	Magnesium	244	+/-1000	U	2000	P	11/17/2025	14:51	LB137929
	Manganese	5.94	+/-10	U	20.0	P	11/17/2025	14:51	LB137929
	Nickel	3.06	+/-20	U	40.0	P	11/17/2025	14:51	LB137929
	Potassium	918	+/-1000	U	2000	P	11/17/2025	14:51	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	14:51	LB137929

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649
Contract: HDRI08 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	11/17/2025	14:51	LB137929
	Sodium	868	+/-1000	U	2000	P	11/17/2025	14:51	LB137929
	Thallium	4.38	+/-20	U	40.0	P	11/17/2025	14:51	LB137929
	Vanadium	6.26	+/-20	U	40.0	P	11/17/2025	14:51	LB137929
	Zinc	16.7	+/-20	U	40.0	P	11/17/2025	14:51	LB137929
CCB03	Aluminum	11.9	+/-50	J	100	P	11/17/2025	15:48	LB137929
	Antimony	6.76	+/-25	U	50.0	P	11/17/2025	15:48	LB137929
	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	15:48	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	15:48	LB137929
	Beryllium	0.56	+/-3	U	6.00	P	11/17/2025	15:48	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	15:48	LB137929
	Calcium	234	+/-1000	U	2000	P	11/17/2025	15:48	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	15:48	LB137929
	Cobalt	2.26	+/-15	U	30.0	P	11/17/2025	15:48	LB137929
	Copper	4.60	+/-10	U	20.0	P	11/17/2025	15:48	LB137929
	Iron	23.4	+/-50	U	100	P	11/17/2025	15:48	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	15:48	LB137929
	Magnesium	244	+/-1000	U	2000	P	11/17/2025	15:48	LB137929
	Manganese	5.94	+/-10	U	20.0	P	11/17/2025	15:48	LB137929
	Nickel	3.06	+/-20	U	40.0	P	11/17/2025	15:48	LB137929
	Potassium	918	+/-1000	U	2000	P	11/17/2025	15:48	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	15:48	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	15:48	LB137929
	Sodium	868	+/-1000	U	2000	P	11/17/2025	15:48	LB137929
	Thallium	5.14	+/-20	J	40.0	P	11/17/2025	15:48	LB137929
	Vanadium	6.26	+/-20	U	40.0	P	11/17/2025	15:48	LB137929
	Zinc	16.7	+/-20	U	40.0	P	11/17/2025	15:48	LB137929
CCB04	Aluminum	11.3	+/-50	U	100	P	11/17/2025	16:38	LB137929
	Antimony	6.76	+/-25	U	50.0	P	11/17/2025	16:38	LB137929
	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	16:38	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	16:38	LB137929
	Beryllium	0.56	+/-3	U	6.00	P	11/17/2025	16:38	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	16:38	LB137929
	Calcium	234	+/-1000	U	2000	P	11/17/2025	16:38	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	16:38	LB137929
	Cobalt	2.26	+/-15	U	30.0	P	11/17/2025	16:38	LB137929
	Copper	4.60	+/-10	U	20.0	P	11/17/2025	16:38	LB137929
	Iron	23.4	+/-50	U	100	P	11/17/2025	16:38	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	16:38	LB137929

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649
Contract: HDRI08 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	11/17/2025	16:38	LB137929
	Manganese	5.94	+/-10	U	20.0	P	11/17/2025	16:38	LB137929
	Nickel	3.06	+/-20	U	40.0	P	11/17/2025	16:38	LB137929
	Potassium	918	+/-1000	U	2000	P	11/17/2025	16:38	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	16:38	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	16:38	LB137929
	Sodium	868	+/-1000	U	2000	P	11/17/2025	16:38	LB137929
	Thallium	4.38	+/-20	U	40.0	P	11/17/2025	16:38	LB137929
	Vanadium	6.26	+/-20	U	40.0	P	11/17/2025	16:38	LB137929
	Zinc	16.7	+/-20	U	40.0	P	11/17/2025	16:38	LB137929
CCB05	Aluminum	11.3	+/-50	U	100	P	11/17/2025	17:28	LB137929
	Antimony	6.76	+/-25	U	50.0	P	11/17/2025	17:28	LB137929
	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	17:28	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	17:28	LB137929
	Beryllium	0.56	+/-3	U	6.00	P	11/17/2025	17:28	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	17:28	LB137929
	Calcium	234	+/-1000	U	2000	P	11/17/2025	17:28	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	17:28	LB137929
	Cobalt	2.26	+/-15	U	30.0	P	11/17/2025	17:28	LB137929
	Copper	4.60	+/-10	U	20.0	P	11/17/2025	17:28	LB137929
	Iron	23.4	+/-50	U	100	P	11/17/2025	17:28	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	17:28	LB137929
	Magnesium	244	+/-1000	U	2000	P	11/17/2025	17:28	LB137929
	Manganese	5.94	+/-10	U	20.0	P	11/17/2025	17:28	LB137929
	Nickel	3.06	+/-20	U	40.0	P	11/17/2025	17:28	LB137929
	Potassium	918	+/-1000	U	2000	P	11/17/2025	17:28	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	17:28	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	17:28	LB137929
	Sodium	868	+/-1000	U	2000	P	11/17/2025	17:28	LB137929
	Thallium	5.18	+/-20	J	40.0	P	11/17/2025	17:28	LB137929
	Vanadium	6.26	+/-20	U	40.0	P	11/17/2025	17:28	LB137929
	Zinc	16.7	+/-20	U	40.0	P	11/17/2025	17:28	LB137929
CCB06	Aluminum	11.3	+/-50	U	100	P	11/17/2025	18:19	LB137929
	Antimony	6.76	+/-25	U	50.0	P	11/17/2025	18:19	LB137929
	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	18:19	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	18:19	LB137929
	Beryllium	0.56	+/-3	U	6.00	P	11/17/2025	18:19	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	18:19	LB137929
	Calcium	234	+/-1000	U	2000	P	11/17/2025	18:19	LB137929

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	18:19	LB137929
	Cobalt	2.26	+/-15	U	30.0	P	11/17/2025	18:19	LB137929
	Copper	4.60	+/-10	U	20.0	P	11/17/2025	18:19	LB137929
	Iron	23.4	+/-50	U	100	P	11/17/2025	18:19	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	18:19	LB137929
	Magnesium	244	+/-1000	U	2000	P	11/17/2025	18:19	LB137929
	Manganese	5.94	+/-10	U	20.0	P	11/17/2025	18:19	LB137929
	Nickel	3.06	+/-20	U	40.0	P	11/17/2025	18:19	LB137929
	Potassium	918	+/-1000	U	2000	P	11/17/2025	18:19	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	18:19	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	18:19	LB137929
	Sodium	868	+/-1000	U	2000	P	11/17/2025	18:19	LB137929
	Thallium	4.38	+/-20	U	40.0	P	11/17/2025	18:19	LB137929
	Vanadium	6.26	+/-20	U	40.0	P	11/17/2025	18:19	LB137929
	Zinc	16.7	+/-20	U	40.0	P	11/17/2025	18:19	LB137929
CCB07	Aluminum	11.3	+/-50	U	100	P	11/17/2025	19:11	LB137929
	Antimony	6.76	+/-25	U	50.0	P	11/17/2025	19:11	LB137929
	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	19:11	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	19:11	LB137929
	Beryllium	0.56	+/-3	U	6.00	P	11/17/2025	19:11	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	19:11	LB137929
	Calcium	234	+/-1000	U	2000	P	11/17/2025	19:11	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	19:11	LB137929
	Cobalt	2.26	+/-15	U	30.0	P	11/17/2025	19:11	LB137929
	Copper	4.60	+/-10	U	20.0	P	11/17/2025	19:11	LB137929
	Iron	23.4	+/-50	U	100	P	11/17/2025	19:11	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	19:11	LB137929
	Magnesium	244	+/-1000	U	2000	P	11/17/2025	19:11	LB137929
	Manganese	5.94	+/-10	U	20.0	P	11/17/2025	19:11	LB137929
	Nickel	3.06	+/-20	U	40.0	P	11/17/2025	19:11	LB137929
	Potassium	918	+/-1000	U	2000	P	11/17/2025	19:11	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	19:11	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	19:11	LB137929
	Sodium	868	+/-1000	U	2000	P	11/17/2025	19:11	LB137929
	Thallium	4.38	+/-20	U	40.0	P	11/17/2025	19:11	LB137929
	Vanadium	6.26	+/-20	U	40.0	P	11/17/2025	19:11	LB137929
	Zinc	16.7	+/-20	U	40.0	P	11/17/2025	19:11	LB137929
CCB08	Aluminum	11.3	+/-50	U	100	P	11/17/2025	19:28	LB137929
	Antimony	6.76	+/-25	U	50.0	P	11/17/2025	19:28	LB137929

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649
Contract: HDRI08 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	19:28	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	19:28	LB137929
	Beryllium	0.56	+/-3	U	6.00	P	11/17/2025	19:28	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	19:28	LB137929
	Calcium	234	+/-1000	U	2000	P	11/17/2025	19:28	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	19:28	LB137929
	Cobalt	2.26	+/-15	U	30.0	P	11/17/2025	19:28	LB137929
	Copper	4.60	+/-10	U	20.0	P	11/17/2025	19:28	LB137929
	Iron	23.4	+/-50	U	100	P	11/17/2025	19:28	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	19:28	LB137929
	Magnesium	244	+/-1000	U	2000	P	11/17/2025	19:28	LB137929
	Manganese	5.94	+/-10	U	20.0	P	11/17/2025	19:28	LB137929
	Nickel	3.06	+/-20	U	40.0	P	11/17/2025	19:28	LB137929
	Potassium	918	+/-1000	U	2000	P	11/17/2025	19:28	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	19:28	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	19:28	LB137929
	Sodium	868	+/-1000	U	2000	P	11/17/2025	19:28	LB137929
	Thallium	4.38	+/-20	U	40.0	P	11/17/2025	19:28	LB137929
	Vanadium	6.26	+/-20	U	40.0	P	11/17/2025	19:28	LB137929
	Zinc	16.7	+/-20	U	40.0	P	11/17/2025	19:28	LB137929
CCB09	Aluminum	11.3	+/-50	U	100	P	11/17/2025	20:02	LB137929
	Antimony	6.76	+/-25	U	50.0	P	11/17/2025	20:02	LB137929
	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	20:02	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	20:02	LB137929
	Beryllium	0.56	+/-3	U	6.00	P	11/17/2025	20:02	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	20:02	LB137929
	Calcium	234	+/-1000	U	2000	P	11/17/2025	20:02	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	20:02	LB137929
	Cobalt	2.26	+/-15	U	30.0	P	11/17/2025	20:02	LB137929
	Copper	4.60	+/-10	U	20.0	P	11/17/2025	20:02	LB137929
	Iron	23.4	+/-50	U	100	P	11/17/2025	20:02	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	20:02	LB137929
	Magnesium	244	+/-1000	U	2000	P	11/17/2025	20:02	LB137929
	Manganese	5.94	+/-10	U	20.0	P	11/17/2025	20:02	LB137929
	Nickel	3.06	+/-20	U	40.0	P	11/17/2025	20:02	LB137929
	Potassium	918	+/-1000	U	2000	P	11/17/2025	20:02	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	20:02	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	20:02	LB137929
	Sodium	868	+/-1000	U	2000	P	11/17/2025	20:02	LB137929

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649
Contract: HDRI08 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	4.38	+/-20	U	40.0	P	11/17/2025	20:02	LB137929
	Vanadium	6.26	+/-20	U	40.0	P	11/17/2025	20:02	LB137929
	Zinc	16.7	+/-20	U	40.0	P	11/17/2025	20:02	LB137929

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3649

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB170581BL		SOLID		Batch Number:	PB170581		Prep Date:	11/17/2025	
	Mercury	0.0080	<0.014	U	0.014	CV	11/18/2025	10:13	LB137932

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3649

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB170579BL	SOLID			Batch Number:	PB170579		Prep Date:	11/17/2025	
	Aluminum	0.84	<2.5	U	5.00	P	11/17/2025	16:43	LB137929
	Antimony	0.22	<1.25	U	2.50	P	11/17/2025	16:43	LB137929
	Arsenic	0.19	<0.5	U	1.00	P	11/17/2025	16:43	LB137929
	Barium	0.73	<2.5	U	5.00	P	11/17/2025	16:43	LB137929
	Beryllium	0.025	<0.15	U	0.30	P	11/17/2025	16:43	LB137929
	Cadmium	0.024	<0.15	U	0.30	P	11/17/2025	16:43	LB137929
	Calcium	11.1	<50	U	100	P	11/17/2025	16:43	LB137929
	Chromium	0.047	<0.25	U	0.50	P	11/17/2025	16:43	LB137929
	Cobalt	0.10	<0.75	U	1.50	P	11/17/2025	16:43	LB137929
	Copper	0.22	<0.5	U	1.00	P	11/17/2025	16:43	LB137929
	Iron	3.99	<2.5	U	5.00	P	11/17/2025	16:43	LB137929
	Lead	0.13	<0.3	U	0.60	P	11/17/2025	16:43	LB137929
	Magnesium	12.0	<50	U	100	P	11/17/2025	16:43	LB137929
	Manganese	0.14	<0.5	U	1.00	P	11/17/2025	16:43	LB137929
	Nickel	0.13	<1	U	2.00	P	11/17/2025	16:43	LB137929
	Potassium	27.7	<50	U	100	P	11/17/2025	16:43	LB137929
	Selenium	0.26	<0.5	U	1.00	P	11/17/2025	16:43	LB137929
	Silver	0.12	<0.25	U	0.50	P	11/17/2025	16:43	LB137929
	Sodium	17.8	<50	U	100	P	11/17/2025	16:43	LB137929
	Thallium	0.28	<1	J	2.00	P	11/17/2025	16:43	LB137929
	Vanadium	0.25	<1	U	2.00	P	11/17/2025	16:43	LB137929
	Zinc	0.23	<1	U	2.00	P	11/17/2025	16:43	LB137929



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV119	Mercury	4.22	4.0	106	90 - 110	CV	11/18/2025	09:54	LB137932

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Mercury	4.90	5.0	98	90 - 110	CV	11/18/2025	10:01	LB137932
CCV08	Mercury	4.69	5.0	94	90 - 110	CV	11/18/2025	10:32	LB137932
CCV09	Mercury	4.93	5.0	98	90 - 110	CV	11/18/2025	11:02	LB137932
CCV10	Mercury	4.65	5.0	93	90 - 110	CV	11/18/2025	11:16	LB137932

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	7920	8000	99	90 - 110	P	11/17/2025	13:23	LB137929
	Antimony	4010	4000	100	90 - 110	P	11/17/2025	13:23	LB137929
	Arsenic	3890	4000	97	90 - 110	P	11/17/2025	13:23	LB137929
	Barium	7960	8000	99	90 - 110	P	11/17/2025	13:23	LB137929
	Beryllium	200	200	100	90 - 110	P	11/17/2025	13:23	LB137929
	Cadmium	1940	2000	97	90 - 110	P	11/17/2025	13:23	LB137929
	Calcium	19700	20000	99	90 - 110	P	11/17/2025	13:23	LB137929
	Chromium	814	800	102	90 - 110	P	11/17/2025	13:23	LB137929
	Cobalt	1990	2000	100	90 - 110	P	11/17/2025	13:23	LB137929
	Copper	1020	1000	102	90 - 110	P	11/17/2025	13:23	LB137929
	Iron	4000	4000	100	90 - 110	P	11/17/2025	13:23	LB137929
	Lead	3830	4000	96	90 - 110	P	11/17/2025	13:23	LB137929
	Magnesium	19800	20000	99	90 - 110	P	11/17/2025	13:23	LB137929
	Manganese	2010	2000	101	90 - 110	P	11/17/2025	13:23	LB137929
	Nickel	1990	2000	100	90 - 110	P	11/17/2025	13:23	LB137929
	Potassium	19500	20000	98	90 - 110	P	11/17/2025	13:23	LB137929
	Selenium	3930	4000	98	90 - 110	P	11/17/2025	13:23	LB137929
	Silver	957	1000	96	90 - 110	P	11/17/2025	13:23	LB137929
	Sodium	19800	20000	99	90 - 110	P	11/17/2025	13:23	LB137929
	Thallium	3800	4000	95	90 - 110	P	11/17/2025	13:23	LB137929
	Vanadium	1990	2000	99	90 - 110	P	11/17/2025	13:23	LB137929
	Zinc	2000	2000	100	90 - 110	P	11/17/2025	13:23	LB137929

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10100	10000	101	90 - 110	P	11/17/2025	13:57	LB137929
	Antimony	5040	5000	101	90 - 110	P	11/17/2025	13:57	LB137929
	Arsenic	5010	5000	100	90 - 110	P	11/17/2025	13:57	LB137929
	Barium	10100	10000	101	90 - 110	P	11/17/2025	13:57	LB137929
	Beryllium	251	250	100	90 - 110	P	11/17/2025	13:57	LB137929
	Cadmium	2510	2500	100	90 - 110	P	11/17/2025	13:57	LB137929
	Calcium	25200	25000	101	90 - 110	P	11/17/2025	13:57	LB137929
	Chromium	1030	1000	103	90 - 110	P	11/17/2025	13:57	LB137929
	Cobalt	2510	2500	100	90 - 110	P	11/17/2025	13:57	LB137929
	Copper	1270	1250	102	90 - 110	P	11/17/2025	13:57	LB137929
	Iron	5100	5000	102	90 - 110	P	11/17/2025	13:57	LB137929
	Lead	5020	5000	100	90 - 110	P	11/17/2025	13:57	LB137929
	Magnesium	25100	25000	100	90 - 110	P	11/17/2025	13:57	LB137929
	Manganese	2560	2500	102	90 - 110	P	11/17/2025	13:57	LB137929
	Nickel	2510	2500	100	90 - 110	P	11/17/2025	13:57	LB137929
	Potassium	24800	25000	99	90 - 110	P	11/17/2025	13:57	LB137929
	Selenium	5010	5000	100	90 - 110	P	11/17/2025	13:57	LB137929
	Silver	1260	1250	101	90 - 110	P	11/17/2025	13:57	LB137929
	Sodium	25000	25000	100	90 - 110	P	11/17/2025	13:57	LB137929
	Thallium	4900	5000	98	90 - 110	P	11/17/2025	13:57	LB137929
	Vanadium	2510	2500	101	90 - 110	P	11/17/2025	13:57	LB137929
	Zinc	2540	2500	102	90 - 110	P	11/17/2025	13:57	LB137929
CCV02	Aluminum	10200	10000	102	90 - 110	P	11/17/2025	14:47	LB137929
	Antimony	5140	5000	103	90 - 110	P	11/17/2025	14:47	LB137929
	Arsenic	5120	5000	102	90 - 110	P	11/17/2025	14:47	LB137929
	Barium	10100	10000	101	90 - 110	P	11/17/2025	14:47	LB137929
	Beryllium	253	250	101	90 - 110	P	11/17/2025	14:47	LB137929
	Cadmium	2540	2500	102	90 - 110	P	11/17/2025	14:47	LB137929
	Calcium	25200	25000	101	90 - 110	P	11/17/2025	14:47	LB137929
	Chromium	1030	1000	103	90 - 110	P	11/17/2025	14:47	LB137929
	Cobalt	2540	2500	101	90 - 110	P	11/17/2025	14:47	LB137929
	Copper	1290	1250	103	90 - 110	P	11/17/2025	14:47	LB137929
	Iron	5180	5000	104	90 - 110	P	11/17/2025	14:47	LB137929
	Lead	5080	5000	102	90 - 110	P	11/17/2025	14:47	LB137929

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	25100	25000	100	90 - 110	P	11/17/2025	14:47	LB137929
	Manganese	2560	2500	102	90 - 110	P	11/17/2025	14:47	LB137929
	Nickel	2540	2500	102	90 - 110	P	11/17/2025	14:47	LB137929
	Potassium	25400	25000	102	90 - 110	P	11/17/2025	14:47	LB137929
	Selenium	5170	5000	103	90 - 110	P	11/17/2025	14:47	LB137929
	Silver	1280	1250	102	90 - 110	P	11/17/2025	14:47	LB137929
	Sodium	25600	25000	102	90 - 110	P	11/17/2025	14:47	LB137929
	Thallium	4970	5000	99	90 - 110	P	11/17/2025	14:47	LB137929
	Vanadium	2520	2500	101	90 - 110	P	11/17/2025	14:47	LB137929
	Zinc	2580	2500	103	90 - 110	P	11/17/2025	14:47	LB137929
CCV03	Aluminum	9640	10000	96	90 - 110	P	11/17/2025	15:44	LB137929
	Antimony	4840	5000	97	90 - 110	P	11/17/2025	15:44	LB137929
	Arsenic	4790	5000	96	90 - 110	P	11/17/2025	15:44	LB137929
	Barium	9720	10000	97	90 - 110	P	11/17/2025	15:44	LB137929
	Beryllium	242	250	97	90 - 110	P	11/17/2025	15:44	LB137929
	Cadmium	2370	2500	95	90 - 110	P	11/17/2025	15:44	LB137929
	Calcium	24000	25000	96	90 - 110	P	11/17/2025	15:44	LB137929
	Chromium	948	1000	95	90 - 110	P	11/17/2025	15:44	LB137929
	Cobalt	2390	2500	96	90 - 110	P	11/17/2025	15:44	LB137929
	Copper	1210	1250	97	90 - 110	P	11/17/2025	15:44	LB137929
	Iron	4740	5000	95	90 - 110	P	11/17/2025	15:44	LB137929
	Lead	4750	5000	95	90 - 110	P	11/17/2025	15:44	LB137929
	Magnesium	23800	25000	95	90 - 110	P	11/17/2025	15:44	LB137929
	Manganese	2400	2500	96	90 - 110	P	11/17/2025	15:44	LB137929
	Nickel	2380	2500	95	90 - 110	P	11/17/2025	15:44	LB137929
	Potassium	23200	25000	93	90 - 110	P	11/17/2025	15:44	LB137929
	Selenium	4800	5000	96	90 - 110	P	11/17/2025	15:44	LB137929
	Silver	1190	1250	95	90 - 110	P	11/17/2025	15:44	LB137929
	Sodium	23200	25000	93	90 - 110	P	11/17/2025	15:44	LB137929
	Thallium	4520	5000	90	90 - 110	P	11/17/2025	15:44	LB137929
	Vanadium	2400	2500	96	90 - 110	P	11/17/2025	15:44	LB137929
	Zinc	2390	2500	95	90 - 110	P	11/17/2025	15:44	LB137929
CCV04	Aluminum	10200	10000	102	90 - 110	P	11/17/2025	16:34	LB137929
	Antimony	5160	5000	103	90 - 110	P	11/17/2025	16:34	LB137929

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.
Contract: HDRI08
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q3649
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5130	5000	103	90 - 110	P	11/17/2025	16:34	LB137929
	Barium	10000	10000	100	90 - 110	P	11/17/2025	16:34	LB137929
	Beryllium	254	250	102	90 - 110	P	11/17/2025	16:34	LB137929
	Cadmium	2510	2500	101	90 - 110	P	11/17/2025	16:34	LB137929
	Calcium	25200	25000	101	90 - 110	P	11/17/2025	16:34	LB137929
	Chromium	1020	1000	102	90 - 110	P	11/17/2025	16:34	LB137929
	Cobalt	2530	2500	101	90 - 110	P	11/17/2025	16:34	LB137929
	Copper	1290	1250	103	90 - 110	P	11/17/2025	16:34	LB137929
	Iron	5130	5000	103	90 - 110	P	11/17/2025	16:34	LB137929
	Lead	5030	5000	101	90 - 110	P	11/17/2025	16:34	LB137929
	Magnesium	25200	25000	101	90 - 110	P	11/17/2025	16:34	LB137929
	Manganese	2560	2500	102	90 - 110	P	11/17/2025	16:34	LB137929
	Nickel	2520	2500	101	90 - 110	P	11/17/2025	16:34	LB137929
	Potassium	25200	25000	101	90 - 110	P	11/17/2025	16:34	LB137929
	Selenium	5160	5000	103	90 - 110	P	11/17/2025	16:34	LB137929
	Silver	1280	1250	103	90 - 110	P	11/17/2025	16:34	LB137929
	Sodium	25600	25000	102	90 - 110	P	11/17/2025	16:34	LB137929
	Thallium	5180	5000	104	90 - 110	P	11/17/2025	16:34	LB137929
	Vanadium	2530	2500	101	90 - 110	P	11/17/2025	16:34	LB137929
	Zinc	2610	2500	104	90 - 110	P	11/17/2025	16:34	LB137929
CCV05	Aluminum	10200	10000	102	90 - 110	P	11/17/2025	17:24	LB137929
	Antimony	5150	5000	103	90 - 110	P	11/17/2025	17:24	LB137929
	Arsenic	5130	5000	102	90 - 110	P	11/17/2025	17:24	LB137929
	Barium	9840	10000	98	90 - 110	P	11/17/2025	17:24	LB137929
	Beryllium	250	250	100	90 - 110	P	11/17/2025	17:24	LB137929
	Cadmium	2530	2500	101	90 - 110	P	11/17/2025	17:24	LB137929
	Calcium	25000	25000	100	90 - 110	P	11/17/2025	17:24	LB137929
	Chromium	1030	1000	103	90 - 110	P	11/17/2025	17:24	LB137929
	Cobalt	2540	2500	102	90 - 110	P	11/17/2025	17:24	LB137929
	Copper	1290	1250	103	90 - 110	P	11/17/2025	17:24	LB137929
	Iron	4960	5000	99	90 - 110	P	11/17/2025	17:24	LB137929
	Lead	5020	5000	100	90 - 110	P	11/17/2025	17:24	LB137929
	Magnesium	25000	25000	100	90 - 110	P	11/17/2025	17:24	LB137929
	Manganese	2580	2500	103	90 - 110	P	11/17/2025	17:24	LB137929

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

Contract: HDRI08

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

SDG No.: Q3649

Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2530	2500	101	90 - 110	P	11/17/2025	17:24	LB137929
	Potassium	24300	25000	97	90 - 110	P	11/17/2025	17:24	LB137929
	Selenium	5110	5000	102	90 - 110	P	11/17/2025	17:24	LB137929
	Silver	1260	1250	101	90 - 110	P	11/17/2025	17:24	LB137929
	Sodium	24600	25000	99	90 - 110	P	11/17/2025	17:24	LB137929
	Thallium	5340	5000	107	90 - 110	P	11/17/2025	17:24	LB137929
	Vanadium	2520	2500	101	90 - 110	P	11/17/2025	17:24	LB137929
	Zinc	2580	2500	103	90 - 110	P	11/17/2025	17:24	LB137929
CCV06	Aluminum	9870	10000	99	90 - 110	P	11/17/2025	18:15	LB137929
	Antimony	5040	5000	101	90 - 110	P	11/17/2025	18:15	LB137929
	Arsenic	5010	5000	100	90 - 110	P	11/17/2025	18:15	LB137929
	Barium	9690	10000	97	90 - 110	P	11/17/2025	18:15	LB137929
	Beryllium	244	250	98	90 - 110	P	11/17/2025	18:15	LB137929
	Cadmium	2450	2500	98	90 - 110	P	11/17/2025	18:15	LB137929
	Calcium	24400	25000	98	90 - 110	P	11/17/2025	18:15	LB137929
	Chromium	1000	1000	100	90 - 110	P	11/17/2025	18:15	LB137929
	Cobalt	2470	2500	99	90 - 110	P	11/17/2025	18:15	LB137929
	Copper	1260	1250	101	90 - 110	P	11/17/2025	18:15	LB137929
	Iron	4940	5000	99	90 - 110	P	11/17/2025	18:15	LB137929
	Lead	4890	5000	98	90 - 110	P	11/17/2025	18:15	LB137929
	Magnesium	24300	25000	97	90 - 110	P	11/17/2025	18:15	LB137929
	Manganese	2500	2500	100	90 - 110	P	11/17/2025	18:15	LB137929
	Nickel	2460	2500	98	90 - 110	P	11/17/2025	18:15	LB137929
	Potassium	24100	25000	97	90 - 110	P	11/17/2025	18:15	LB137929
	Selenium	5020	5000	100	90 - 110	P	11/17/2025	18:15	LB137929
	Silver	1250	1250	100	90 - 110	P	11/17/2025	18:15	LB137929
	Sodium	24500	25000	98	90 - 110	P	11/17/2025	18:15	LB137929
	Thallium	4960	5000	99	90 - 110	P	11/17/2025	18:15	LB137929
	Vanadium	2450	2500	98	90 - 110	P	11/17/2025	18:15	LB137929
	Zinc	2570	2500	103	90 - 110	P	11/17/2025	18:15	LB137929
CCV07	Aluminum	9850	10000	98	90 - 110	P	11/17/2025	19:07	LB137929
	Antimony	4980	5000	100	90 - 110	P	11/17/2025	19:07	LB137929
	Arsenic	4980	5000	100	90 - 110	P	11/17/2025	19:07	LB137929
	Barium	9940	10000	99	90 - 110	P	11/17/2025	19:07	LB137929

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client:	<u>HDR, Inc.</u>	SDG No.:	<u>Q3649</u>
Contract:	<u>HDRI08</u>	Lab Code:	<u>ACE</u>
Initial Calibration Source:	<u>EPA</u>		
Continuing Calibration Source:	<u>Inorganic Ventures</u>		

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	246	250	99	90 - 110	P	11/17/2025	19:07	LB137929
	Cadmium	2410	2500	96	90 - 110	P	11/17/2025	19:07	LB137929
	Calcium	24400	25000	98	90 - 110	P	11/17/2025	19:07	LB137929
	Chromium	987	1000	99	90 - 110	P	11/17/2025	19:07	LB137929
	Cobalt	2430	2500	97	90 - 110	P	11/17/2025	19:07	LB137929
	Copper	1260	1250	100	90 - 110	P	11/17/2025	19:07	LB137929
	Iron	4960	5000	99	90 - 110	P	11/17/2025	19:07	LB137929
	Lead	4790	5000	96	90 - 110	P	11/17/2025	19:07	LB137929
	Magnesium	24100	25000	97	90 - 110	P	11/17/2025	19:07	LB137929
	Manganese	2450	2500	98	90 - 110	P	11/17/2025	19:07	LB137929
	Nickel	2420	2500	97	90 - 110	P	11/17/2025	19:07	LB137929
	Potassium	24500	25000	98	90 - 110	P	11/17/2025	19:07	LB137929
	Selenium	4970	5000	99	90 - 110	P	11/17/2025	19:07	LB137929
	Silver	1250	1250	100	90 - 110	P	11/17/2025	19:07	LB137929
	Sodium	24600	25000	98	90 - 110	P	11/17/2025	19:07	LB137929
	Thallium	4840	5000	97	90 - 110	P	11/17/2025	19:07	LB137929
	Vanadium	2440	2500	98	90 - 110	P	11/17/2025	19:07	LB137929
	Zinc	2580	2500	103	90 - 110	P	11/17/2025	19:07	LB137929
CCV08	Aluminum	10300	10000	102	90 - 110	P	11/17/2025	19:24	LB137929
	Antimony	5180	5000	104	90 - 110	P	11/17/2025	19:24	LB137929
	Arsenic	5170	5000	104	90 - 110	P	11/17/2025	19:24	LB137929
	Barium	10200	10000	102	90 - 110	P	11/17/2025	19:24	LB137929
	Beryllium	254	250	102	90 - 110	P	11/17/2025	19:24	LB137929
	Cadmium	2510	2500	100	90 - 110	P	11/17/2025	19:24	LB137929
	Calcium	25400	25000	102	90 - 110	P	11/17/2025	19:24	LB137929
	Chromium	1030	1000	103	90 - 110	P	11/17/2025	19:24	LB137929
	Cobalt	2530	2500	101	90 - 110	P	11/17/2025	19:24	LB137929
	Copper	1300	1250	104	90 - 110	P	11/17/2025	19:24	LB137929
	Iron	5130	5000	103	90 - 110	P	11/17/2025	19:24	LB137929
	Lead	4990	5000	100	90 - 110	P	11/17/2025	19:24	LB137929
	Magnesium	25300	25000	101	90 - 110	P	11/17/2025	19:24	LB137929
	Manganese	2570	2500	103	90 - 110	P	11/17/2025	19:24	LB137929
	Nickel	2520	2500	101	90 - 110	P	11/17/2025	19:24	LB137929
	Potassium	25300	25000	101	90 - 110	P	11/17/2025	19:24	LB137929

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	5180	5000	104	90 - 110	P	11/17/2025	19:24	LB137929
	Silver	1290	1250	103	90 - 110	P	11/17/2025	19:24	LB137929
	Sodium	25600	25000	102	90 - 110	P	11/17/2025	19:24	LB137929
	Thallium	5140	5000	103	90 - 110	P	11/17/2025	19:24	LB137929
	Vanadium	2550	2500	102	90 - 110	P	11/17/2025	19:24	LB137929
	Zinc	2660	2500	106	90 - 110	P	11/17/2025	19:24	LB137929
CCV09	Aluminum	9890	10000	99	90 - 110	P	11/17/2025	19:47	LB137929
	Antimony	5200	5000	104	90 - 110	P	11/17/2025	19:47	LB137929
	Arsenic	5220	5000	104	90 - 110	P	11/17/2025	19:47	LB137929
	Barium	9950	10000	100	90 - 110	P	11/17/2025	19:47	LB137929
	Beryllium	243	250	97	90 - 110	P	11/17/2025	19:47	LB137929
	Cadmium	2430	2500	97	90 - 110	P	11/17/2025	19:47	LB137929
	Calcium	24700	25000	99	90 - 110	P	11/17/2025	19:47	LB137929
	Chromium	990	1000	99	90 - 110	P	11/17/2025	19:47	LB137929
	Cobalt	2450	2500	98	90 - 110	P	11/17/2025	19:47	LB137929
	Copper	1280	1250	103	90 - 110	P	11/17/2025	19:47	LB137929
	Iron	5060	5000	101	90 - 110	P	11/17/2025	19:47	LB137929
	Lead	4900	5000	98	90 - 110	P	11/17/2025	19:47	LB137929
	Magnesium	24200	25000	97	90 - 110	P	11/17/2025	19:47	LB137929
	Manganese	2650	2500	106	90 - 110	P	11/17/2025	19:47	LB137929
	Nickel	2440	2500	98	90 - 110	P	11/17/2025	19:47	LB137929
	Potassium	24800	25000	99	90 - 110	P	11/17/2025	19:47	LB137929
	Selenium	5220	5000	104	90 - 110	P	11/17/2025	19:47	LB137929
	Silver	1250	1250	100	90 - 110	P	11/17/2025	19:47	LB137929
	Sodium	24800	25000	99	90 - 110	P	11/17/2025	19:47	LB137929
	Thallium	5020	5000	100	90 - 110	P	11/17/2025	19:47	LB137929
	Vanadium	2470	2500	99	90 - 110	P	11/17/2025	19:47	LB137929
	Zinc	2620	2500	105	90 - 110	P	11/17/2025	19:47	LB137929

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV	Aluminum	120	100	120	80 - 120	P	11/17/2025	19:57	LB137929
	Antimony	55.6	50.0	111	80 - 120	P	11/17/2025	19:57	LB137929
	Arsenic	20.5	20.0	103	80 - 120	P	11/17/2025	19:57	LB137929
	Barium	102	100	102	80 - 120	P	11/17/2025	19:57	LB137929
	Beryllium	6.51	6.0	109	80 - 120	P	11/17/2025	19:57	LB137929
	Cadmium	6.08	6.0	101	80 - 120	P	11/17/2025	19:57	LB137929
	Calcium	2090	2000	104	80 - 120	P	11/17/2025	19:57	LB137929
	Chromium	10.4	10.0	104	80 - 120	P	11/17/2025	19:57	LB137929
	Cobalt	30.7	30.0	102	80 - 120	P	11/17/2025	19:57	LB137929
	Copper	22.6	20.0	113	80 - 120	P	11/17/2025	19:57	LB137929
	Iron	117	100	117	80 - 120	P	11/17/2025	19:57	LB137929
	Lead	14.3	12.0	119	80 - 120	P	11/17/2025	19:57	LB137929
	Magnesium	2190	2000	110	80 - 120	P	11/17/2025	19:57	LB137929
	Manganese	23.0	20.0	115	80 - 120	P	11/17/2025	19:57	LB137929
	Nickel	42.5	40.0	106	80 - 120	P	11/17/2025	19:57	LB137929
	Potassium	2060	2000	103	80 - 120	P	11/17/2025	19:57	LB137929
	Selenium	19.2	20.0	96	80 - 120	P	11/17/2025	19:57	LB137929
	Silver	11.9	10.0	119	80 - 120	P	11/17/2025	19:57	LB137929
	Sodium	1890	2000	94	80 - 120	P	11/17/2025	19:57	LB137929
	Thallium	39.0	40.0	97	80 - 120	P	11/17/2025	19:57	LB137929
	Vanadium	42.1	40.0	105	80 - 120	P	11/17/2025	19:57	LB137929
	Zinc	39.3	40.0	98	80 - 120	P	11/17/2025	19:57	LB137929

Metals

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CRDL STANDARD FOR AA & ICP

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Aluminum	117	100	118	65 - 135	P	11/17/2025	13:35	LB137929
	Antimony	53.9	50.0	108	65 - 135	P	11/17/2025	13:35	LB137929
	Arsenic	20.5	20.0	102	65 - 135	P	11/17/2025	13:35	LB137929
	Barium	104	100	104	65 - 135	P	11/17/2025	13:35	LB137929
	Beryllium	6.60	6.0	110	65 - 135	P	11/17/2025	13:35	LB137929
	Cadmium	6.08	6.0	101	65 - 135	P	11/17/2025	13:35	LB137929
	Calcium	2090	2000	104	65 - 135	P	11/17/2025	13:35	LB137929
	Chromium	10.4	10.0	104	65 - 135	P	11/17/2025	13:35	LB137929
	Cobalt	31.0	30.0	104	65 - 135	P	11/17/2025	13:35	LB137929
	Copper	22.4	20.0	112	65 - 135	P	11/17/2025	13:35	LB137929
	Iron	107	100	107	65 - 135	P	11/17/2025	13:35	LB137929
	Lead	12.4	12.0	103	65 - 135	P	11/17/2025	13:35	LB137929
	Magnesium	2200	2000	110	65 - 135	P	11/17/2025	13:35	LB137929
	Manganese	21.8	20.0	109	65 - 135	P	11/17/2025	13:35	LB137929
	Nickel	42.9	40.0	107	65 - 135	P	11/17/2025	13:35	LB137929
	Potassium	1910	2000	96	65 - 135	P	11/17/2025	13:35	LB137929
	Selenium	22.9	20.0	115	65 - 135	P	11/17/2025	13:35	LB137929
	Silver	10.6	10.0	106	65 - 135	P	11/17/2025	13:35	LB137929
	Sodium	1840	2000	92	65 - 135	P	11/17/2025	13:35	LB137929
	Thallium	45.3	40.0	113	65 - 135	P	11/17/2025	13:35	LB137929
	Vanadium	42.4	40.0	106	65 - 135	P	11/17/2025	13:35	LB137929
	Zinc	43.8	40.0	110	65 - 135	P	11/17/2025	13:35	LB137929
CRA	Mercury	0.21	0.2	105	70 - 130	CV	11/18/2025	10:05	LB137932

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>HDR, Inc.</u>	SDG No.: <u>Q3649</u>
Contract: <u>HDRI08</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</u>

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	252000	255000	99	216000	294000	11/17/2025	13:40	LB137929
	Antimony	-0.25			-50	50	11/17/2025	13:40	LB137929
	Arsenic	11.0			-20	20	11/17/2025	13:40	LB137929
	Barium	6.13	6.0	102	-94	106	11/17/2025	13:40	LB137929
	Beryllium	0.92			-6	6	11/17/2025	13:40	LB137929
	Cadmium	5.85	1.0	585	-5	7	11/17/2025	13:40	LB137929
	Calcium	239000	245000	98	208000	282000	11/17/2025	13:40	LB137929
	Chromium	51.1	52.0	98	42	62	11/17/2025	13:40	LB137929
	Cobalt	2.40			-30	30	11/17/2025	13:40	LB137929
	Copper	-17.2	2.0	860	-18	22	11/17/2025	13:40	LB137929
	Iron	96200	101000	95	85600	116500	11/17/2025	13:40	LB137929
	Lead	9.64			-12	12	11/17/2025	13:40	LB137929
	Magnesium	255000	255000	100	216000	294000	11/17/2025	13:40	LB137929
	Manganese	10.9	7.0	156	-13	27	11/17/2025	13:40	LB137929
	Nickel	5.91	2.0	296	-38	42	11/17/2025	13:40	LB137929
	Potassium	-16.1			0	0	11/17/2025	13:40	LB137929
	Selenium	8.91			-20	20	11/17/2025	13:40	LB137929
	Silver	-3.73			-10	10	11/17/2025	13:40	LB137929
	Sodium	-50.9			0	0	11/17/2025	13:40	LB137929
	Thallium	33.1			-40	40	11/17/2025	13:40	LB137929
	Vanadium	2.16			-40	40	11/17/2025	13:40	LB137929
	Zinc	6.79			-40	40	11/17/2025	13:40	LB137929
ICSAB01	Aluminum	249000	247000	101	209000	285000	11/17/2025	13:44	LB137929
	Antimony	592	618	96	525	711	11/17/2025	13:44	LB137929
	Arsenic	116	104	112	88.4	120	11/17/2025	13:44	LB137929
	Barium	494	537	92	437	637	11/17/2025	13:44	LB137929
	Beryllium	502	495	101	420	570	11/17/2025	13:44	LB137929
	Cadmium	994	972	102	826	1120	11/17/2025	13:44	LB137929
	Calcium	236000	235000	100	199000	271000	11/17/2025	13:44	LB137929
	Chromium	565	542	104	460	624	11/17/2025	13:44	LB137929
	Cobalt	504	476	106	404	548	11/17/2025	13:44	LB137929
	Copper	460	511	90	434	588	11/17/2025	13:44	LB137929
	Iron	98300	99300	99	84400	114500	11/17/2025	13:44	LB137929
	Lead	58.0	49.0	118	37	61	11/17/2025	13:44	LB137929
	Magnesium	253000	248000	102	210000	286000	11/17/2025	13:44	LB137929
	Manganese	505	507	100	430	584	11/17/2025	13:44	LB137929
	Nickel	1000	954	105	810	1100	11/17/2025	13:44	LB137929
	Potassium	-106			0	0	11/17/2025	13:44	LB137929
	Selenium	58.2	46.0	126	26	66	11/17/2025	13:44	LB137929
	Silver	194	201	96	170	232	11/17/2025	13:44	LB137929
	Sodium	-65.9			0	0	11/17/2025	13:44	LB137929
	Thallium	137	108	127	68	148	11/17/2025	13:44	LB137929

Metals

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INTERFERENCE CHECK SAMPLE

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

ICS Source: EPA

Instrument ID: P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	488	491	99	417	565	11/17/2025	13:44	LB137929
	Zinc	1050	952	110	809	1095	11/17/2025	13:44	LB137929



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: HDR, Inc. **level:** low **sdg no.:** Q3649
contract: HDRI08 **lab code:** ACE
matrix: Solid **sample id:** Q3649-06 **client id:** B4-0.0-0.5-20251114MS

Percent Solids for Sample: 91.4 **Spiked ID:** Q3649-06MS **Percent Solids for Spike Sample:** 91.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	6570		5000		97.3	1606		P
Antimony	mg/Kg	75 - 125	13.6		2.46	U	38.9	35	N	P
Arsenic	mg/Kg	75 - 125	31.3		1.88		38.9	76		P
Barium	mg/Kg	75 - 125	41.3		26.0		9.7	157	N	P
Beryllium	mg/Kg	75 - 125	7.60		0.41		9.7	74	N	P
Cadmium	mg/Kg	75 - 125	10.4		1.09		9.7	96		P
Calcium	mg/Kg	75 - 125	1250		1180		48.6	143		P
Chromium	mg/Kg	75 - 125	26.7		11.3		19.5	79		P
Cobalt	mg/Kg	75 - 125	16.7		6.43		9.7	106		P
Copper	mg/Kg	75 - 125	13.4		2.16		14.6	77		P
Iron	mg/Kg	75 - 125	14300		13400		150	594		P
Lead	mg/Kg	75 - 125	58.5		14.5		48.6	90		P
Magnesium	mg/Kg	75 - 125	1450		1090		97.3	366		P
Manganese	mg/Kg	75 - 125	434		382		9.7	539		P
Mercury	mg/Kg	80 - 120	0.23		0.020		0.28	73	N	CV
Nickel	mg/Kg	75 - 125	36.7		11.7		24.3	103		P
Potassium	mg/Kg	75 - 125	954		483		490	96		P
Selenium	mg/Kg	75 - 125	69.5		0.99	U	97.3	71	N	P
Silver	mg/Kg	75 - 125	2.15		0.49	U	3.6	60	N	P
Sodium	mg/Kg	75 - 125	428		290		150	92		P
Thallium	mg/Kg	75 - 125	84.2		0.38	J	97.3	86		P
Vanadium	mg/Kg	75 - 125	24.5		12.9		14.6	80		P
Zinc	mg/Kg	75 - 125	33.0		23.1		9.7	102		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>HDR, Inc.</u>	level: <u>low</u>	sdg no.: <u>Q3649</u>
contract: <u>HDRI08</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q3649-06</u>	client id: <u>B4-0.0-0.5-20251114MSD</u>
Percent Solids for Sample: 91.4	Spiked ID: Q3649-06MSD	Percent Solids for Spike Sample: 91.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	6680		5000		97.3	1721		P
Antimony	mg/Kg	75 - 125	13.8		2.46	U	38.9	36	N	P
Arsenic	mg/Kg	75 - 125	32.1		1.88		38.9	78		P
Barium	mg/Kg	75 - 125	41.9		26.0		9.7	163	N	P
Beryllium	mg/Kg	75 - 125	7.70		0.41		9.7	75		P
Cadmium	mg/Kg	75 - 125	10.8		1.09		9.7	100		P
Calcium	mg/Kg	75 - 125	1260		1180		48.6	165		P
Chromium	mg/Kg	75 - 125	26.8		11.3		19.5	79		P
Cobalt	mg/Kg	75 - 125	17.2		6.43		9.7	111		P
Copper	mg/Kg	75 - 125	13.7		2.16		14.6	79		P
Iron	mg/Kg	75 - 125	14400		13400		150	700		P
Lead	mg/Kg	75 - 125	60.5		14.5		48.6	95		P
Magnesium	mg/Kg	75 - 125	1470		1090		97.3	386		P
Manganese	mg/Kg	75 - 125	439		382		9.7	583		P
Mercury	mg/Kg	80 - 120	0.26		0.020		0.3	81		CV
Nickel	mg/Kg	75 - 125	37.7		11.7		24.3	107		P
Potassium	mg/Kg	75 - 125	977		483		490	101		P
Selenium	mg/Kg	75 - 125	71.3		0.99	U	97.3	73	N	P
Silver	mg/Kg	75 - 125	2.20		0.49	U	3.6	61	N	P
Sodium	mg/Kg	75 - 125	433		290		150	95		P
Thallium	mg/Kg	75 - 125	86.3		0.38	J	97.3	88		P
Vanadium	mg/Kg	75 - 125	25.0		12.9		14.6	83		P
Zinc	mg/Kg	75 - 125	33.3		23.1		9.7	106		P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: <u>HDR, Inc.</u>	SDG No.: <u>Q3649</u>	
Contract: <u>HDRI08</u>	Lab Code: <u>ACE</u>	
Matrix: <u>Solid</u>	Level: <u>LOW</u>	Client ID: <u>B4-0.0-0.5-20251114A</u>
Sample ID: <u>Q3649-06</u>	Spiked ID: <u>Q3649-06A</u>	

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	29.2		2.46	U	39.4	74	N	P
Barium	mg/Kg	75 - 125	33.3		26.0		9.90	74	N	P
Beryllium	mg/Kg	75 - 125	7.63		0.41		9.90	73	N	P
Mercury	mg/Kg	80 - 120	0.29		0.020		0.27	99		CV
Selenium	mg/Kg	75 - 125	72.4		0.99	U	98.6	73	N	P
Silver	mg/Kg	75 - 125	2.27		0.49	U	3.70	61	N	P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: HDR, Inc. **Level:** LOW **SDG No.:** Q3649
Contract: HDRI08 **Lab Code:** ACE
Matrix: Solid **Sample ID:** Q3649-06 **Client ID:** B4-0.0-0.5-20251114DUP
Percent Solids for Sample: 91.4 **Duplicate ID** Q3649-06DUP **Percent Solids for Spike Sample:** 91.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	5000		4760		5		P
Antimony	mg/Kg	20	2.46	U	2.36	U			P
Arsenic	mg/Kg	20	1.88		1.77		6		P
Barium	mg/Kg	20	26.0		24.7		5		P
Beryllium	mg/Kg	20	0.41		0.39		4		P
Cadmium	mg/Kg	20	1.09		1.03		6		P
Calcium	mg/Kg	20	1180		1120		5		P
Chromium	mg/Kg	20	11.3		10.8		4		P
Cobalt	mg/Kg	20	6.43		6.12		5		P
Copper	mg/Kg	20	2.16		1.93		11		P
Iron	mg/Kg	20	13400		12800		5		P
Lead	mg/Kg	20	14.5		14.0		4		P
Magnesium	mg/Kg	20	1090		1040		5		P
Manganese	mg/Kg	20	382		367		4		P
Mercury	mg/Kg	20	0.020		0.019		5		CV
Nickel	mg/Kg	20	11.7		11.1		5		P
Potassium	mg/Kg	20	483		460		5		P
Selenium	mg/Kg	20	0.99	U	0.94	U			P
Silver	mg/Kg	20	0.49	U	0.47	U			P
Sodium	mg/Kg	20	290		273		6		P
Thallium	mg/Kg	20	0.38	J	1.89	U	200.0		P
Vanadium	mg/Kg	20	12.9		12.4		4		P
Zinc	mg/Kg	20	23.1		22.0		5		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>HDR, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3649</u>
Contract:	<u>HDRI08</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q3649-06MS</u>	Client ID:	<u>B4-0.0-0.5-20251114MSD</u>
Percent Solids for Sample:	91.4	Duplicate ID	Q3649-06MSD	Percent Solids for Spike Sample:	91.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	6570		6680		2		P
Antimony	mg/Kg	20	13.6		13.8		1		P
Arsenic	mg/Kg	20	31.3		32.1		3		P
Barium	mg/Kg	20	41.3		41.9		1		P
Beryllium	mg/Kg	20	7.60		7.70		1		P
Cadmium	mg/Kg	20	10.4		10.8		3		P
Calcium	mg/Kg	20	1250		1260		1		P
Chromium	mg/Kg	20	26.7		26.8		0		P
Cobalt	mg/Kg	20	16.7		17.2		3		P
Copper	mg/Kg	20	13.4		13.7		2		P
Iron	mg/Kg	20	14300		14400		1		P
Lead	mg/Kg	20	58.5		60.5		3		P
Magnesium	mg/Kg	20	1450		1470		1		P
Manganese	mg/Kg	20	434		439		1		P
Mercury	mg/Kg	20	0.23		0.26		16		CV
Nickel	mg/Kg	20	36.7		37.7		3		P
Potassium	mg/Kg	20	954		977		2		P
Selenium	mg/Kg	20	69.5		71.3		3		P
Silver	mg/Kg	20	2.15		2.20		2		P
Sodium	mg/Kg	20	428		433		1		P
Thallium	mg/Kg	20	84.2		86.3		2		P
Vanadium	mg/Kg	20	24.5		25.0		2		P
Zinc	mg/Kg	20	33.0		33.3		1		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client:	<u>HDR, Inc.</u>	SDG No.:	<u>Q3649</u>
Contract:	<u>HDRI08</u>	Lab Code:	<u>ACE</u>

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170579BS							
Aluminum	mg/Kg	100	102		102	80 - 120	P
Antimony	mg/Kg	40.0	40.9		102	80 - 120	P
Arsenic	mg/Kg	40.0	39.9		100	80 - 120	P
Barium	mg/Kg	10.0	9.98		100	80 - 120	P
Beryllium	mg/Kg	10.0	10.3		103	80 - 120	P
Cadmium	mg/Kg	10.0	9.88		99	80 - 120	P
Calcium	mg/Kg	50.0	54.1	J	108	80 - 120	P
Chromium	mg/Kg	20.0	20.8		104	80 - 120	P
Cobalt	mg/Kg	10.0	10.1		101	80 - 120	P
Copper	mg/Kg	15.0	15.9		106	80 - 120	P
Iron	mg/Kg	150	151		101	80 - 120	P
Lead	mg/Kg	50.0	48.3		97	80 - 120	P
Magnesium	mg/Kg	100	103		103	80 - 120	P
Manganese	mg/Kg	10.0	10.5		105	80 - 120	P
Nickel	mg/Kg	25.0	25.2		101	80 - 120	P
Potassium	mg/Kg	500	486		97	80 - 120	P
Selenium	mg/Kg	100	101		101	80 - 120	P
Silver	mg/Kg	3.8	3.94		104	80 - 120	P
Sodium	mg/Kg	150	143		95	80 - 120	P
Thallium	mg/Kg	100	91.8		92	80 - 120	P
Vanadium	mg/Kg	15.0	15.5		103	80 - 120	P
Zinc	mg/Kg	10.0	10.7		107	80 - 120	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170581BS Mercury	mg/Kg	0.28	0.29		104	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

B4-0.0-0.5-20251114L

Lab Name: Alliance **Contract:** HDRI08
Lab Code: ACE **Lb No.:** lb137929 **Lab Sample ID :** Q3649-06L **SDG No.:** Q3649
Matrix (soil/water): Solid **Level (low/med):** LOW
Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ-ence		Q	M
Aluminum	5000		5880		17			P
Antimony	2.46	U	12.3	U				P
Arsenic	1.88		2.08	J	11			P
Barium	26.0		30.2		16			P
Beryllium	0.41		0.49	J	20			P
Cadmium	1.09		0.74	J	31			P
Calcium	1180		1390		18			P
Chromium	11.3		13.4		19			P
Cobalt	6.43		6.09	J	5			P
Copper	2.16		2.62	J	21			P
Iron	13400		15800		18			P
Lead	14.5		14.5		0			P
Magnesium	1090		1300		19			P
Manganese	382		459		20			P
Mercury	0.020		0.042	J	113			CV
Nickel	11.7		11.3		3			P
Potassium	483		513		6			P
Selenium	0.99	U	4.93	U				P
Silver	0.49	U	2.46	U				P
Sodium	290		273	J	6			P
Thallium	0.38	J	1.42	J	272			P
Vanadium	12.9		15.3		19			P
Zinc	23.1		27.1		17			P

metals
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ANALYSIS RUN LOG

Client: HDR, Inc.

Contract: HDRI08

Lab code: ACE

Sdg no.: Q3649

Instrument id number: _____

Method: _____

Run number: LB137929

Start date: 11/17/2025

End date: 11/17/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1257	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1302	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1306	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1310	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1314	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1319	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1323	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1331	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1335	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1340	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1344	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1357	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1401	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1447	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1451	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1544	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1548	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1634	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1638	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB170579BL	PB170579BL	1	1643	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB170579BS	PB170579BS	1	1647	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3649-01	B5-0.0-0.5-20251114	1	1708	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3649-03	DUPE-0.0-0.5-20251114	1	1712	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3649-06	B4-0.0-0.5-20251114	1	1716	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3649-06DUP	B4-0.0-0.5-20251114DUP	1	1720	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1724	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1728	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3649-06L	B4-0.0-0.5-20251114L	5	1733	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3649-06MS	B4-0.0-0.5-20251114MS	1	1737	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3649-06MSD	B4-0.0-0.5-20251114MSD	1	1741	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3649-06A	B4-0.0-0.5-20251114A	1	1745	Ag,Ba,Be,Sb,Se
Q3649-08	B3-0.0-0.5-20251114	1	1749	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1815	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1819	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1907	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1911	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	1924	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	1928	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	1947	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV	LLCCV	1	1957	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	2002	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

metals
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ANALYSIS RUN LOG

Client: HDR, Inc.

Contract: HDRI08

Lab code: ACE

Sdg no.: Q3649

Instrument id number: _____

Method: _____

Run number: LB137932

Start date: 11/18/2025

End date: 11/18/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0936	HG
S0.2	S0.2	1	0941	HG
S2.5	S2.5	1	0943	HG
S5	S5	1	0945	HG
S7.5	S7.5	1	0948	HG
S10	S10	1	0950	HG
ICV119	ICV119	1	0954	HG
ICB119	ICB119	1	0956	HG
CCV07	CCV07	1	1001	HG
CCB07	CCB07	1	1003	HG
CRA	CRA	1	1005	HG
PB170581BL	PB170581BL	1	1013	HG
PB170581BS	PB170581BS	1	1018	HG
Q3649-01	B5-0.0-0.5-20251114	1	1029	HG
CCV08	CCV08	1	1032	HG
CCB08	CCB08	1	1034	HG
Q3649-03	DUPE-0.0-0.5-20251114	1	1036	HG
Q3649-06	B4-0.0-0.5-20251114	1	1044	HG
Q3649-06DUP	B4-0.0-0.5-20251114DUP	1	1046	HG
Q3649-06MS	B4-0.0-0.5-20251114MS	1	1048	HG
Q3649-06MSD	B4-0.0-0.5-20251114MSD	1	1053	HG
Q3649-08	B3-0.0-0.5-20251114	1	1055	HG
Q3649-06L	B4-0.0-0.5-20251114L	5	1058	HG
Q3649-06A	B4-0.0-0.5-20251114A	1	1100	HG
CCV09	CCV09	1	1102	HG
CCB09	CCB09	1	1105	HG
CCV10	CCV10	1	1116	HG
CCB10	CCB10	1	1121	HG



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Instrument ID:

Date:

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

LAB CHRONICLE

OrderID:	Q3649	OrderDate:	11/14/2025 3:02:13 PM
Client:	HDR, Inc.	Project:	PVWC Linear Construction
Contact:	Andrew Wadden	Location:	D41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3649-01	B5-0.0-0.5-20251114	SOIL			11/14/25			11/14/25
			Mercury	7471B		11/17/25	11/18/25	
			Metals ICP-TAL	6010D		11/17/25	11/17/25	
Q3649-03	DUPE-0.0-0.5-20251114	SOIL			11/14/25			11/14/25
			Mercury	7471B		11/17/25	11/18/25	
			Metals ICP-TAL	6010D		11/17/25	11/17/25	
Q3649-06	B4-0.0-0.5-20251114	SOIL			11/14/25			11/14/25
			Mercury	7471B		11/17/25	11/18/25	
			Metals ICP-TAL	6010D		11/17/25	11/17/25	
Q3649-07	B4-0.0-0.5-20251114	TCLP			11/14/25			11/14/25
			TCLP ICP Metals	6010D		11/17/25	11/17/25	
			TCLP Mercury	7470A		11/17/25	11/17/25	
Q3649-08	B3-0.0-0.5-20251114	SOIL			11/14/25			11/14/25
			Mercury	7471B		11/17/25	11/18/25	
			Metals ICP-TAL	6010D		11/17/25	11/17/25	



METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Method: _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB170579							
PB170579BL	PB170579BL	MB	SOLID	11/17/2025	2.00	100.0	100.00
PB170579BS	PB170579BS	LCS	SOLID	11/17/2025	2.00	100.0	100.00
Q3649-01	B5-0.0-0.5-20251114	SAM	SOLID	11/17/2025	2.30	100.0	90.60
Q3649-03	DUPE-0.0-0.5-20251114	SAM	SOLID	11/17/2025	2.22	100.0	86.50
Q3649-06	B4-0.0-0.5-20251114	SAM	SOLID	11/17/2025	2.22	100.0	91.40
Q3649-06DUP	B4-0.0-0.5-20251114DUP	DUP	SOLID	11/17/2025	2.32	100.0	91.40
Q3649-06MS	B4-0.0-0.5-20251114MS	MS	SOLID	11/17/2025	2.25	100.0	91.40
Q3649-06MSD	B4-0.0-0.5-20251114MSD	MSD	SOLID	11/17/2025	2.25	100.0	91.40
Q3649-08	B3-0.0-0.5-20251114	SAM	SOLID	11/17/2025	2.08	100.0	86.00

Metals

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SAMPLE PREPARATION SUMMARY

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

Method: _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB170581							
PB170581BL	PB170581BL	MB	SOLID	11/17/2025	0.50	35.0	100.00
PB170581BS	PB170581BS	LCS	SOLID	11/17/2025	0.50	35.0	100.00
Q3649-01	B5-0.0-0.5-20251114	SAM	SOLID	11/17/2025	0.56	35.0	90.60
Q3649-03	DUPE-0.0-0.5-20251114	SAM	SOLID	11/17/2025	0.56	35.0	86.50
Q3649-06	B4-0.0-0.5-20251114	SAM	SOLID	11/17/2025	0.57	35.0	91.40
Q3649-06DUP	B4-0.0-0.5-20251114DUP	DUP	SOLID	11/17/2025	0.56	35.0	91.40
Q3649-06MS	B4-0.0-0.5-20251114MS	MS	SOLID	11/17/2025	0.55	35.0	91.40
Q3649-06MSD	B4-0.0-0.5-20251114MSD	MSD	SOLID	11/17/2025	0.51	35.0	91.40
Q3649-08	B3-0.0-0.5-20251114	SAM	SOLID	11/17/2025	0.53	35.0	86.00

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137929

Review By	jaswal	Review On	11/18/2025 12:01:44 PM
Supervise By	mohan	Supervise On	11/18/2025 5:19:51 PM
STD. NAME	STD REF.#		
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638		
ICV Standard	MP87644,MP87643		
CCV Standard	MP87647		
ICSA Standard	MP87645,MP87646		
CRI Standard	MP87643		
LCS Standard			
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/17/25 12:57		Jaswal	OK
2	S1	S1	CAL2	11/17/25 13:02		Jaswal	OK
3	S2	S2	CAL3	11/17/25 13:06		Jaswal	OK
4	S3	S3	CAL4	11/17/25 13:10		Jaswal	OK
5	S4	S4	CAL5	11/17/25 13:14		Jaswal	OK
6	S5	S5	CAL6	11/17/25 13:19		Jaswal	OK
7	ICV01	ICV01	ICV	11/17/25 13:23		Jaswal	OK
8	ICB01	ICB01	ICB	11/17/25 13:31		Jaswal	OK
9	CRI01	CRI01	CRDL	11/17/25 13:35		Jaswal	OK
10	ICSA01	ICSA01	ICSA	11/17/25 13:40		Jaswal	OK
11	ICSAB01	ICSAB01	ICSAB	11/17/25 13:44		Jaswal	OK
12	ICSADL	ICSADL	ICSA	11/17/25 13:48		Jaswal	OK
13	ICSABDL	ICSABDL	ICSAB	11/17/25 13:52		Jaswal	OK
14	CCV01	CCV01	CCV	11/17/25 13:57		Jaswal	OK
15	CCB01	CCB01	CCB	11/17/25 14:01		Jaswal	OK
16	PB170459BL	PB170459BL	MB	11/17/25 14:05		Jaswal	OK
17	PB170459BS	PB170459BS	LCS	11/17/25 14:10		Jaswal	OK
18	PB170471BL	PB170471BL	MB	11/17/25 14:14		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137929

Review By	jaswal	Review On	11/18/2025 12:01:44 PM
Supervise By	mohan	Supervise On	11/18/2025 5:19:51 PM
STD. NAME	STD REF.#		
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638		
ICV Standard	MP87644,MP87643		
CCV Standard	MP87647		
ICSA Standard	MP87645,MP87646		
CRI Standard	MP87643		
LCS Standard			
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650		

19	PB170471BS	PB170471BS	LCS	11/17/25 14:18		Jaswal	OK
20	PB170557BL	PB170557BL	MB	11/17/25 14:22		Jaswal	OK
21	PB170557BS	PB170557BS	LCS	11/17/25 14:26		Jaswal	OK
22	PB170558BL	PB170558BL	MB	11/17/25 14:30		Jaswal	OK
23	PB170558BS	PB170558BS	LCS	11/17/25 14:35		Jaswal	OK
24	Q3628-01	TP-5	SAM	11/17/25 14:39		Jaswal	OK
25	Q3631-01	VNJ-202	SAM	11/17/25 14:43		Jaswal	OK
26	CCV02	CCV02	CCV	11/17/25 14:47		Jaswal	OK
27	CCB02	CCB02	CCB	11/17/25 14:51		Jaswal	OK
28	LR-1	LR-1	HIGH STD	11/17/25 14:55		Jaswal	OK
29	LR-2	LR-2	HIGH STD	11/17/25 15:00		Jaswal	OK
30	Q3631-03	VNJ-208	SAM	11/17/25 15:11		Jaswal	OK
31	LR-3	LR-3	HIGH STD	11/17/25 15:15		Jaswal	OK
32	Q3633-01	ETGI-369	SAM	11/17/25 15:19		Jaswal	OK
33	Q3633-03	ETGI-342	SAM	11/17/25 15:24		Jaswal	OK
34	Q3633-05	ETGI-368	SAM	11/17/25 15:28		Jaswal	OK
35	Q3633-05DUP	ETGI-368DUP	DUP	11/17/25 15:32		Jaswal	OK
36	Q3633-05L	ETGI-368L	SD	11/17/25 15:36		Jaswal	OK
37	Q3633-05MS	ETGI-368MS	MS	11/17/25 15:40		Jaswal	OK
38	CCV03	CCV03	CCV	11/17/25 15:44		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137929

Review By	jaswal	Review On	11/18/2025 12:01:44 PM
Supervise By	mohan	Supervise On	11/18/2025 5:19:51 PM
STD. NAME	STD REF.#		
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638		
ICV Standard	MP87644,MP87643		
CCV Standard	MP87647		
ICSA Standard	MP87645,MP87646		
CRI Standard	MP87643		
LCS Standard			
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650		

39	CCB03	CCB03	CCB	11/17/25 15:48		Jaswal	OK
40	Q3633-05MSD	ETGI-368MSD	MSD	11/17/25 15:52		Jaswal	OK
41	Q3633-05A	ETGI-368A	PS	11/17/25 15:56	0.1ML M6008,M6017-10ML SAMPLE	Jaswal	OK
42	Q3641-01	TR-05-111325	SAM	11/17/25 16:00		Jaswal	OK
43	Q3630-01	DSN002	SAM	11/17/25 16:04		Jaswal	OK
44	Q3630-01DUP	DSN002DUP	DUP	11/17/25 16:09		Jaswal	OK
45	Q3630-01L	DSN002L	SD	11/17/25 16:13		Jaswal	OK
46	Q3630-01MS	DSN002MS	MS	11/17/25 16:17		Jaswal	OK
47	Q3630-01MSD	DSN002MSD	MSD	11/17/25 16:22		Jaswal	OK
48	Q3630-01A	DSN002A	PS	11/17/25 16:26	0.1ML M6008,M6017-10ML SAMPLE	Jaswal	OK
49	Q3630-05	DSN003	SAM	11/17/25 16:30		Jaswal	OK
50	CCV04	CCV04	CCV	11/17/25 16:34		Jaswal	OK
51	CCB04	CCB04	CCB	11/17/25 16:38		Jaswal	OK
52	PB170579BL	PB170579BL	MB	11/17/25 16:43		Jaswal	OK
53	PB170579BS	PB170579BS	LCS	11/17/25 16:47		Jaswal	OK
54	Q3645-01	HD-02-11142025	SAM	11/17/25 16:51		Jaswal	OK
55	Q3646-01	SU-03-11142025	SAM	11/17/25 16:55		Jaswal	OK
56	Q3647-01	VNJ-212	SAM	11/17/25 16:59		Jaswal	OK
57	Q3648-01	OR-02-111425	SAM	11/17/25 17:04		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137929

Review By	jaswal	Review On	11/18/2025 12:01:44 PM
Supervise By	mohan	Supervise On	11/18/2025 5:19:51 PM
STD. NAME	STD REF.#		
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638		
ICV Standard	MP87644,MP87643		
CCV Standard	MP87647		
ICSA Standard	MP87645,MP87646		
CRI Standard	MP87643		
LCS Standard			
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650		

58	Q3649-01	B5-0.0-0.5-20251114	SAM	11/17/25 17:08		Jaswal	OK
59	Q3649-03	DUPE-0.0-0.5-20251114	SAM	11/17/25 17:12		Jaswal	OK
60	Q3649-06	B4-0.0-0.5-20251114	SAM	11/17/25 17:16		Jaswal	OK
61	Q3649-06DUP	B4-0.0-0.5-20251114	DUP	11/17/25 17:20		Jaswal	OK
62	CCV05	CCV05	CCV	11/17/25 17:24		Jaswal	OK
63	CCB05	CCB05	CCB	11/17/25 17:28		Jaswal	OK
64	Q3649-06L	B4-0.0-0.5-20251114	SD	11/17/25 17:33		Jaswal	OK
65	Q3649-06MS	B4-0.0-0.5-20251114	MS	11/17/25 17:37		Jaswal	OK
66	Q3649-06MSD	B4-0.0-0.5-20251114	MSD	11/17/25 17:41		Jaswal	OK
67	Q3649-06A	B4-0.0-0.5-20251114	PS	11/17/25 17:45	0.1ML M6008,M6017-10ML SAMPLE	Jaswal	OK
68	Q3649-08	B3-0.0-0.5-20251114	SAM	11/17/25 17:49		Jaswal	OK
69	PB170583BL	PB170583BL	MB	11/17/25 17:53		Jaswal	OK
70	PB170583BS	PB170583BS	LCS	11/17/25 17:57		Jaswal	OK
71	PB170544TB	PB170544TB	MB	11/17/25 18:02	NOT USE	Jaswal	Not Ok
72	Q3486-11	TP6	SAM	11/17/25 18:06		Jaswal	OK
73	Q3588-07	TR-06-11072025	SAM	11/17/25 18:10		Jaswal	OK
74	CCV06	CCV06	CCV	11/17/25 18:15		Jaswal	OK
75	CCB06	CCB06	CCB	11/17/25 18:19		Jaswal	OK
76	Q3628-04	TP-5	SAM	11/17/25 18:23		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137929

Review By	jaswal	Review On	11/18/2025 12:01:44 PM
Supervise By	mohan	Supervise On	11/18/2025 5:19:51 PM
STD. NAME	STD REF.#		
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638		
ICV Standard	MP87644,MP87643		
CCV Standard	MP87647		
ICSA Standard	MP87645,MP87646		
CRI Standard	MP87643		
LCS Standard			
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650		

77	Q3638-02	MOO-25-0327	SAM	11/17/25 18:28		Jaswal	OK
78	Q3638-04	MOO-25-0328	SAM	11/17/25 18:32		Jaswal	OK
79	Q3640-02	LAW-25-0179-0180	SAM	11/17/25 18:37		Jaswal	OK
80	Q3640-03	LAW-25-0182	SAM	11/17/25 18:41		Jaswal	OK
81	Q3647-02	VNJ-212	SAM	11/17/25 18:45		Jaswal	OK
82	Q3649-07	B4-0.0-0.5-20251114	SAM	11/17/25 18:50		Jaswal	OK
83	Q3649-07DUP	B4-0.0-0.5-20251114	DUP	11/17/25 18:54		Jaswal	OK
84	Q3649-07L	B4-0.0-0.5-20251114	SD	11/17/25 18:59		Jaswal	OK
85	Q3649-07MS	B4-0.0-0.5-20251114	MS	11/17/25 19:03		Jaswal	OK
86	CCV07	CCV07	CCV	11/17/25 19:07		Jaswal	OK
87	CCB07	CCB07	CCB	11/17/25 19:11		Jaswal	OK
88	Q3649-07MSD	B4-0.0-0.5-20251114	MSD	11/17/25 19:16		Jaswal	OK
89	Q3649-07A	B4-0.0-0.5-20251114	PS	11/17/25 19:20	0.1ML M6008,M6017-10ML SAMPLE	Jaswal	OK
90	CCV08	CCV08	CCV	11/17/25 19:24		Jaswal	OK
91	CCB08	CCB08	CCB	11/17/25 19:28		Jaswal	OK
92	CCV09	CCV09	CCV	11/17/25 19:47		Jaswal	OK
93	LLCCV	LLCCV	LLCCV	11/17/25 19:57		Jaswal	OK
94	CCB09	CCB09	CCB	11/17/25 20:02		Jaswal	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137932

Review By	mohan	Review On	11/18/2025 5:21:29 PM
Supervise By	jaswal	Supervise On	11/18/2025 5:35:32 PM
STD. NAME	STD REF.#		
ICAL Standard	MP87982,MP87983,MP87984,MP87985,MP87986,MP87987		
ICV Standard	MP87988		
CCV Standard	MP87990		
ICSA Standard			
CRI Standard	MP87992		
LCS Standard			
Chk Standard	MP87989,MP87991,MP87993,MP88011		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/18/25 09:36		mohan	OK
2	S0.2	S0.2	CAL2	11/18/25 09:41		mohan	OK
3	S2.5	S2.5	CAL3	11/18/25 09:43		mohan	OK
4	S5	S5	CAL4	11/18/25 09:45		mohan	OK
5	S7.5	S7.5	CAL5	11/18/25 09:48		mohan	OK
6	S10	S10	CAL6	11/18/25 09:50		mohan	OK
7	ICV119	ICV119	ICV	11/18/25 09:54		mohan	OK
8	ICB119	ICB119	ICB	11/18/25 09:56		mohan	OK
9	CCV07	CCV07	CCV	11/18/25 10:01		mohan	OK
10	CCB07	CCB07	CCB	11/18/25 10:03		mohan	OK
11	CRA	CRA	CRDL	11/18/25 10:05		mohan	OK
12	HighStd	HighStd	HIGH STD	11/18/25 10:08		mohan	OK
13	ChkStd	ChkStd	SAM	11/18/25 10:10		mohan	OK
14	PB170581BL	PB170581BL	MB	11/18/25 10:13		mohan	OK
15	PB170581BS	PB170581BS	LCS	11/18/25 10:18		mohan	OK
16	Q3645-01	HD-02-11142025	SAM	11/18/25 10:20		mohan	OK
17	Q3646-01	SU-03-11142025	SAM	11/18/25 10:22		mohan	OK
18	Q3647-01	VNJ-212	SAM	11/18/25 10:25		mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137932

Review By	mohan	Review On	11/18/2025 5:21:29 PM
Supervise By	jaswal	Supervise On	11/18/2025 5:35:32 PM
STD. NAME	STD REF.#		
ICAL Standard	MP87982,MP87983,MP87984,MP87985,MP87986,MP87987		
ICV Standard	MP87988		
CCV Standard	MP87990		
ICSA Standard			
CRI Standard	MP87992		
LCS Standard			
Chk Standard	MP87989,MP87991,MP87993,MP88011		

19	Q3648-01	OR-02-111425	SAM	11/18/25 10:27	Hg is high, need dilution	mohan	Dilution
20	Q3649-01	B5-0.0-0.5-20251114	SAM	11/18/25 10:29		mohan	OK
21	CCV08	CCV08	CCV	11/18/25 10:32		mohan	OK
22	CCB08	CCB08	CCB	11/18/25 10:34		mohan	OK
23	Q3649-03	DUPE-0.0-0.5-20251114	SAM	11/18/25 10:36		mohan	OK
24	Q3649-06	B4-0.0-0.5-20251114	SAM	11/18/25 10:44		mohan	OK
25	Q3649-06DUP	B4-0.0-0.5-20251114	DUP	11/18/25 10:46		mohan	OK
26	Q3649-06MS	B4-0.0-0.5-20251114	MS	11/18/25 10:48		mohan	OK
27	Q3649-06MSD	B4-0.0-0.5-20251114	MSD	11/18/25 10:53		mohan	OK
28	Q3649-08	B3-0.0-0.5-20251114	SAM	11/18/25 10:55		mohan	OK
29	Q3649-06L	B4-0.0-0.5-20251114	SD	11/18/25 10:58		mohan	OK
30	Q3649-06A	B4-0.0-0.5-20251114	PS	11/18/25 11:00		mohan	OK
31	CCV09	CCV09	CCV	11/18/25 11:02		mohan	OK
32	CCB09	CCB09	CCB	11/18/25 11:05		mohan	OK
33	Q3652-01	TP-1	SAM	11/18/25 11:07		mohan	OK
34	Q3656-01	T2-GRAVEL	SAM	11/18/25 11:09		mohan	OK
35	Q3658-01	NB-07-111725	SAM	11/18/25 11:11		mohan	OK
36	Q3648-01DL	OR-02-111425DL	SAM	11/18/25 11:14	5X For Hg	mohan	Confirms
37	CCV10	CCV10	CCV	11/18/25 11:16		mohan	OK
38	CCB10	CCB10	CCB	11/18/25 11:21		mohan	OK

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pipette ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #2 2. N/A

Start Digest Date: 11/17/2025 Time : 10:45 Temp : 96 °C

End Digest Date: 11/17/2025 Time : 12:50 Temp : 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: *S129*

Supervisor Signature: *[Signature]*

Temp : 1. 96°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6209
LFS-2	1.00	M6201
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	5.00	M6187
1:1 HNO3	10.00	MP86978
30% H2O2	3.00	M6170
Conc. HCL	10.00	M6151
PTFE Boiling Stones	N/A	M5581
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#2 CELL#35 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/17/25 13:50	<i>S129 met dig</i>	<i>[Signature] (met lab)</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB170579BL	PBS579	N/A	2.00	100	Colorless	Colorless	Fine	No	N/A	1
PB170579BS	LCS579	N/A	2.00	100	Colorless	Colorless	Fine	No	M6209,M6201	2
Q3645-01	HD-02-11142025	N/A	2.34	100	Brown	Yellow	Medium	No	N/A	3
Q3646-01	SU-03-11142025	N/A	2.14	100	Brown	Yellow	Medium	No	N/A	4
Q3647-01	VNJ-212	N/A	2.46	100	Brown	Yellow	Medium	No	N/A	5
Q3648-01	OR-02-111425	N/A	2.20	100	Brown	Yellow	Medium	No	N/A	6
Q3649-01	B5-0.0-0.5-20251114	N/A	2.30	100	Brown	Yellow	Medium	No	N/A	7
Q3649-03	DUPE-0.0-0.5-20251114	N/A	2.22	100	Brown	Yellow	Medium	No	N/A	8
Q3649-06	B4-0.0-0.5-20251114	N/A	2.22	100	Brown	Yellow	Medium	No	N/A	9
Q3649-06MS	B4-0.0-0.5-20251114MS	N/A	2.25	100	Brown	Yellow	Medium	No	M6209,M6201	11
Q3649-06MSD	B4-0.0-0.5-20251114MSD	N/A	2.25	100	Brown	Yellow	Medium	No	M6209,M6201	12
Q3649-06DUP	B4-0.0-0.5-20251114DUP	N/A	2.32	100	Brown	Yellow	Medium	No	N/A	10
Q3649-08	B3-0.0-0.5-20251114	N/A	2.08	100	Brown	Yellow	Medium	No	N/A	13

SOP ID : M7471B-Mercury-19

SDG No : NA

Matrix : SOIL

Pipette ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 11/17/2025 Time : 16:10 Temp : 94 °C

End Digest Date: 11/17/2025 Time : 16:40 Temp : 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: *[Signature]*

Supervisor Signature: *[Signature]*

Temp : 1. 94°C 2. N/A

Standardized Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP87988
CCV	30mL	MP87990
CRA	30mL	MP87992
Blank Spike	0.48mL	MP87981
Matrix Spike	0.48mL	MP87981

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5MI	MP87994
KMnO4 (5%)	4.5mL	MP87634
Hydroxylamine HCL (12%)	2.0MI	MP87636
PTFE Boiling Stones	-----	M5582
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP87982
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP87983
2.5 ppb	S2.5	30mL	MP87984
5.0 ppb	S5.0	30mL	MP87985
7.5 ppb	S7.5	30ml	MP87986
10.0 ppb	S10.0	30mL	MP87987
ICV	ICV	30mL	MP87988
ICB	ICB	30mL	MP87989
CCV	CCV	30mL	MP87990
CCB	CCB	30mL	MP87991
CRI	CRI	30mL	MP87992
CHK STD	CHK STD	30mL	MP87993

Extraction Conformance/Non-Conformance Comments:

N/A		
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/17/25 16:40	<i>[Signature]</i>	<i>[Signature]</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB170581BL	PBS581	0.50	35	NA	N/A	3-1
PB170581BS	LCS581	0.50	35	NA	MP87981	2
Q3645-01	HD-02-11142025	0.57	35	NA	N/A	3
Q3646-01	SU-03-11142025	0.58	35	NA	N/A	4
Q3647-01	VNJ-212	0.52	35	NA	N/A	5
Q3648-01	OR-02-111425	0.58	35	NA	N/A	6
Q3649-01	B5-0.0-0.5-20251114	0.56	35	NA	N/A	7
Q3649-03	DUPE-0.0-0.5-20251114	0.56	35	NA	N/A	8
Q3649-06	B4-0.0-0.5-20251114	0.57	35	NA	N/A	9
Q3649-06MS	B4-0.0-0.5-20251114MS	0.55	35	NA	MP87981	11
Q3649-06MSD	B4-0.0-0.5-20251114MSD	0.51	35	NA	MP87981	12
Q3649-06DUP	B4-0.0-0.5-20251114DUP	0.56	35	NA	N/A	10
Q3649-08	B3-0.0-0.5-20251114	0.53	35	NA	N/A	13
Q3652-01	TP-1	0.52	35	NA	N/A	14
Q3656-01	T2-GRAVEL	0.56	35	NA	N/A	15
Q3658-01	NB-07-111725	0.56	35	NA	N/A	16