

Hit Summary Sheet SW-846

SDG No.: Q3466 **Order ID:** Q3466
Client: HDR, Inc. **Project ID:** PVWC Linear Construction

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B8-0.0-1.0-20251023								
Q3466-02	B8-0.0-1.0-20251023	SOIL	Aluminum	5080		0.92	5.48	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Arsenic	4.12		0.21	1.10	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Barium	139		0.80	5.48	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Beryllium	0.44		0.027	0.33	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Cadmium	0.35		0.026	0.33	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Calcium	3170		12.2	110	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Chromium	14.3		0.051	0.55	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Cobalt	4.43		0.11	1.64	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Copper	40.4		0.24	1.10	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Iron	10900		4.37	5.48	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Lead	494		0.14	0.66	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Magnesium	1780		13.1	110	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Manganese	373		0.15	1.10	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Mercury	0.27		0.0090	0.015	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Nickel	12.0		0.14	2.19	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Potassium	371		30.3	110	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Silver	0.16	J	0.13	0.55	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Sodium	194		19.5	110	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Vanadium	19.2		0.27	2.19	mg/Kg
Q3466-02	B8-0.0-1.0-20251023	SOIL	Zinc	194		0.25	2.19	mg/Kg
Client ID : B9-0.0-1.0-20251023								
Q3466-05	B9-0.0-1.0-20251023	SOIL	Aluminum	7760		0.94	5.62	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Arsenic	2.90		0.21	1.12	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Barium	37.3		0.82	5.62	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Beryllium	0.62		0.028	0.34	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Cadmium	0.72		0.027	0.34	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Calcium	1260		12.5	112	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Chromium	13.1		0.053	0.56	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Cobalt	6.14		0.11	1.68	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Copper	24.0		0.25	1.12	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Iron	13300		4.48	5.62	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Lead	45.2		0.15	0.67	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Magnesium	2170		13.5	112	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Manganese	228		0.16	1.12	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Mercury	0.042		0.0080	0.015	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Nickel	11.1		0.15	2.25	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Potassium	1070		31.1	112	mg/Kg

Hit Summary Sheet
SW-846

SDG No.:	Q3466	Order ID:	Q3466
Client:	HDR, Inc.	Project ID:	PVWC Linear Construction

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3466-05	B9-0.0-1.0-20251023	SOIL	Silver	0.18	J	0.14	0.56	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Sodium	198		20.0	112	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Vanadium	19.1		0.28	2.25	mg/Kg
Q3466-05	B9-0.0-1.0-20251023	SOIL	Zinc	130		0.26	2.25	mg/Kg
Client ID : B7-1.0-2.0-20251023								
Q3466-07	B7-1.0-2.0-20251023	SOIL	Aluminum	3360		0.86	5.10	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Arsenic	2.24		0.19	1.02	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Barium	16.9		0.74	5.10	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Beryllium	0.39		0.025	0.31	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Cadmium	0.18	J	0.024	0.31	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Calcium	888		11.3	102	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Chromium	7.36		0.048	0.51	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Cobalt	4.02		0.10	1.53	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Copper	12.0		0.22	1.02	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Iron	8370		4.07	5.10	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Lead	21.4		0.13	0.61	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Magnesium	1250		12.2	102	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Manganese	118		0.14	1.02	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Mercury	0.016		0.0080	0.014	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Nickel	7.55		0.13	2.04	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Potassium	941		28.2	102	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Sodium	224		18.1	102	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Vanadium	10.8		0.26	2.04	mg/Kg
Q3466-07	B7-1.0-2.0-20251023	SOIL	Zinc	22.0		0.23	2.04	mg/Kg



SAMPLE DATA

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: B8-0.0-1.0-20251023
Lab Sample ID: Q3466-02
Level (low/med): low

Date Collected: 10/23/25
Date Received: 10/24/25
SDG No.: Q3466
Matrix: SOIL
% Solid: 85.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5080		1	0.92	5.48	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7440-36-0	Antimony	0.24	UN	1	0.24	2.74	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7440-38-2	Arsenic	4.12		1	0.21	1.10	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7440-39-3	Barium	139		1	0.80	5.48	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7440-41-7	Beryllium	0.44		1	0.027	0.33	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7440-43-9	Cadmium	0.35		1	0.026	0.33	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7440-70-2	Calcium	3170		1	12.2	110	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7440-47-3	Chromium	14.3		1	0.051	0.55	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7440-48-4	Cobalt	4.43		1	0.11	1.64	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7440-50-8	Copper	40.4		1	0.24	1.10	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7439-89-6	Iron	10900	*	1	4.37	5.48	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7439-92-1	Lead	494		1	0.14	0.66	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7439-95-4	Magnesium	1780		1	13.1	110	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7439-96-5	Manganese	373		1	0.15	1.10	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7439-97-6	Mercury	0.27		1	0.0090	0.015	mg/Kg	10/27/25 14:40	10/28/25 13:56	7471B	7471B
7440-02-0	Nickel	12.0		1	0.14	2.19	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7440-09-7	Potassium	371		1	30.3	110	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7782-49-2	Selenium	0.28	U	1	0.28	1.10	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7440-22-4	Silver	0.16	J	1	0.13	0.55	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7440-23-5	Sodium	194		1	19.5	110	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7440-28-0	Thallium	0.25	U	1	0.25	2.19	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7440-62-2	Vanadium	19.2		1	0.27	2.19	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A
7440-66-6	Zinc	194	N	1	0.25	2.19	mg/Kg	10/28/25 10:40	10/29/25 15:16	6010D	SW3010A

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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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: B9-0.0-1.0-20251023
Lab Sample ID: Q3466-05
Level (low/med): low

Date Collected: 10/23/25
Date Received: 10/24/25
SDG No.: Q3466
Matrix: SOIL
% Solid: 83.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	7760		1	0.94	5.62	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7440-36-0	Antimony	0.25	UN	1	0.25	2.81	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7440-38-2	Arsenic	2.90		1	0.21	1.12	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7440-39-3	Barium	37.3		1	0.82	5.62	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7440-41-7	Beryllium	0.62		1	0.028	0.34	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7440-43-9	Cadmium	0.72		1	0.027	0.34	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7440-70-2	Calcium	1260		1	12.5	112	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7440-47-3	Chromium	13.1		1	0.053	0.56	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7440-48-4	Cobalt	6.14		1	0.11	1.68	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7440-50-8	Copper	24.0		1	0.25	1.12	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7439-89-6	Iron	13300	*	1	4.48	5.62	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7439-92-1	Lead	45.2		1	0.15	0.67	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7439-95-4	Magnesium	2170		1	13.5	112	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7439-96-5	Manganese	228		1	0.16	1.12	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7439-97-6	Mercury	0.042		1	0.0080	0.015	mg/Kg	10/27/25 14:40	10/28/25 13:58	7471B	7471B
7440-02-0	Nickel	11.1		1	0.15	2.25	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7440-09-7	Potassium	1070		1	31.1	112	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7782-49-2	Selenium	0.29	U	1	0.29	1.12	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7440-22-4	Silver	0.18	J	1	0.14	0.56	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7440-23-5	Sodium	198		1	20.0	112	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7440-28-0	Thallium	0.26	U	1	0.26	2.25	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7440-62-2	Vanadium	19.1		1	0.28	2.25	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A
7440-66-6	Zinc	130	N	1	0.26	2.25	mg/Kg	10/28/25 10:40	10/29/25 15:20	6010D	SW3010A

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: B7-1.0-2.0-20251023
Lab Sample ID: Q3466-07
Level (low/med): low

Date Collected: 10/23/25
Date Received: 10/24/25
SDG No.: Q3466
Matrix: SOIL
% Solid: 89.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3360		1	0.86	5.10	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7440-36-0	Antimony	0.22	UN	1	0.22	2.55	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7440-38-2	Arsenic	2.24		1	0.19	1.02	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7440-39-3	Barium	16.9		1	0.74	5.10	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7440-41-7	Beryllium	0.39		1	0.025	0.31	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7440-43-9	Cadmium	0.18	J	1	0.024	0.31	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7440-70-2	Calcium	888		1	11.3	102	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7440-47-3	Chromium	7.36		1	0.048	0.51	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7440-48-4	Cobalt	4.02		1	0.10	1.53	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7440-50-8	Copper	12.0		1	0.22	1.02	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7439-89-6	Iron	8370	*	1	4.07	5.10	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7439-92-1	Lead	21.4		1	0.13	0.61	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7439-95-4	Magnesium	1250		1	12.2	102	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7439-96-5	Manganese	118		1	0.14	1.02	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7439-97-6	Mercury	0.016		1	0.0080	0.014	mg/Kg	10/27/25 14:40	10/28/25 14:06	7471B	7471B
7440-02-0	Nickel	7.55		1	0.13	2.04	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7440-09-7	Potassium	941		1	28.2	102	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7782-49-2	Selenium	0.27	U	1	0.27	1.02	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7440-22-4	Silver	0.12	U	1	0.12	0.51	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7440-23-5	Sodium	224		1	18.1	102	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7440-28-0	Thallium	0.23	U	1	0.23	2.04	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7440-62-2	Vanadium	10.8		1	0.26	2.04	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A
7440-66-6	Zinc	22.0	N	1	0.23	2.04	mg/Kg	10/28/25 10:40	10/29/25 15:24	6010D	SW3010A

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LOQ = Limit of Quantitation

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Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

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* = 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

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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.: Q3466

Contract: HDRI08

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB90	Mercury	0.076	+/-0.2	U	0.20	CV	10/28/2025	12:53	LB137668

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3466

Contract: HDRI08

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB97	Mercury	0.076	+/-0.2	U	0.20	CV	10/28/2025	12:58	LB137668
CCB98	Mercury	0.076	+/-0.2	U	0.20	CV	10/28/2025	13:33	LB137668
CCB99	Mercury	0.076	+/-0.2	U	0.20	CV	10/28/2025	14:03	LB137668
CCB100	Mercury	0.076	+/-0.2	U	0.20	CV	10/28/2025	14:25	LB137668

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3466
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	11.3	+/-50	U	100	P	10/29/2025	14:12	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	14:12	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	14:12	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	14:12	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	14:12	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	14:12	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	14:12	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	14:12	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	14:12	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	14:12	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	14:12	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	14:12	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	14:12	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	14:12	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	14:12	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	14:12	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	14:12	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	14:12	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	14:12	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	14:12	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	14:12	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	14:12	LB137697

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3466
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	10/29/2025	14:41	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	14:41	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	14:41	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	14:41	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	14:41	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	14:41	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	14:41	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	14:41	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	14:41	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	14:41	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	14:41	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	14:41	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	14:41	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	14:41	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	14:41	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	14:41	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	14:41	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	14:41	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	14:41	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	14:41	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	14:41	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	14:41	LB137697
CCB02	Aluminum	11.3	+/-50	U	100	P	10/29/2025	15:48	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	15:48	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	15:48	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	15:48	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	15:48	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	15:48	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	15:48	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	15:48	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	15:48	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	15:48	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	15:48	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	15:48	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	15:48	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	15:48	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	15:48	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	15:48	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	15:48	LB137697

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3466

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	10/29/2025	15:48	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	15:48	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	15:48	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	15:48	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	15:48	LB137697
CCB03	Aluminum	11.3	+/-50	U	100	P	10/29/2025	16:41	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	16:41	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	16:41	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	16:41	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	16:41	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	16:41	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	16:41	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	16:41	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	16:41	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	16:41	LB137697
	Iron	29.0	+/-50	J	100	P	10/29/2025	16:41	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	16:41	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	16:41	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	16:41	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	16:41	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	16:41	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	16:41	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	16:41	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	16:41	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	16:41	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	16:41	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	16:41	LB137697
CCB04	Aluminum	11.3	+/-50	U	100	P	10/29/2025	17:31	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	17:31	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	17:31	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	17:31	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	17:31	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	17:31	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	17:31	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	17:31	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	17:31	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	17:31	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	17:31	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	17:31	LB137697

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3466

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	10/29/2025	17:31	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	17:31	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	17:31	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	17:31	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	17:31	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	17:31	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	17:31	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	17:31	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	17:31	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	17:31	LB137697
CCB05	Aluminum	12.2	+/-50	J	100	P	10/29/2025	18:07	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	18:07	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	18:07	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	18:07	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	18:07	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	18:07	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	18:07	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	18:07	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	18:07	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	18:07	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	18:07	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	18:07	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	18:07	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	18:07	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	18:07	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	18:07	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	18:07	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	18:07	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	18:07	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	18:07	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	18:07	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	18:07	LB137697
CCB06	Aluminum	11.3	+/-50	U	100	P	10/29/2025	19:04	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	19:04	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	19:04	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	19:04	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	19:04	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	19:04	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	19:04	LB137697

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3466

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	10/29/2025	19:04	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	19:04	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	19:04	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	19:04	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	19:04	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	19:04	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	19:04	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	19:04	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	19:04	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	19:04	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	19:04	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	19:04	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	19:04	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	19:04	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	19:04	LB137697

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3466

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB170271BL		SOLID		Batch Number:	PB170271		Prep Date:	10/27/2025	
	Mercury	0.0080	<0.014	U	0.014	CV	10/28/2025	13:11	LB137668

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3466

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB170288BL	SOLID			Batch Number:	PB170288		Prep Date:	10/28/2025	
	Aluminum	0.84	<2.5	U	5.00	P	10/29/2025	15:04	LB137697
	Antimony	0.22	<1.25	U	2.50	P	10/29/2025	15:04	LB137697
	Arsenic	0.19	<0.5	U	1.00	P	10/29/2025	15:04	LB137697
	Barium	0.73	<2.5	U	5.00	P	10/29/2025	15:04	LB137697
	Beryllium	0.025	<0.15	U	0.30	P	10/29/2025	15:04	LB137697
	Cadmium	0.024	<0.15	U	0.30	P	10/29/2025	15:04	LB137697
	Calcium	11.1	<50	U	100	P	10/29/2025	15:04	LB137697
	Chromium	0.047	<0.25	U	0.50	P	10/29/2025	15:04	LB137697
	Cobalt	0.10	<0.75	U	1.50	P	10/29/2025	15:04	LB137697
	Copper	0.22	<0.5	U	1.00	P	10/29/2025	15:04	LB137697
	Iron	3.99	<2.5	U	5.00	P	10/29/2025	15:04	LB137697
	Lead	0.13	<0.3	U	0.60	P	10/29/2025	15:04	LB137697
	Magnesium	12.0	<50	U	100	P	10/29/2025	15:04	LB137697
	Manganese	0.14	<0.5	U	1.00	P	10/29/2025	15:04	LB137697
	Nickel	0.13	<1	U	2.00	P	10/29/2025	15:04	LB137697
	Potassium	27.7	<50	U	100	P	10/29/2025	15:04	LB137697
	Selenium	0.26	<0.5	U	1.00	P	10/29/2025	15:04	LB137697
	Silver	0.12	<0.25	U	0.50	P	10/29/2025	15:04	LB137697
	Sodium	17.8	<50	U	100	P	10/29/2025	15:04	LB137697
	Thallium	0.23	<1	U	2.00	P	10/29/2025	15:04	LB137697
	Vanadium	0.25	<1	U	2.00	P	10/29/2025	15:04	LB137697
	Zinc	0.23	<1	U	2.00	P	10/29/2025	15:04	LB137697



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3466

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
ICV90	Mercury	4.30	4.0	107	90 - 110	CV	10/28/2025	12:51	LB137668

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3466

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
CCV97	Mercury	5.04	5.0	101	90 - 110	CV	10/28/2025	12:56	LB137668
CCV98	Mercury	4.77	5.0	95	90 - 110	CV	10/28/2025	13:31	LB137668
CCV99	Mercury	4.99	5.0	100	90 - 110	CV	10/28/2025	14:01	LB137668
CCV100	Mercury	4.90	5.0	98	90 - 110	CV	10/28/2025	14:23	LB137668

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3466

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	7260	8000	91	90 - 110	P	10/29/2025	14:01	LB137697
	Antimony	3850	4000	96	90 - 110	P	10/29/2025	14:01	LB137697
	Arsenic	3760	4000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Barium	7490	8000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Beryllium	188	200	94	90 - 110	P	10/29/2025	14:01	LB137697
	Cadmium	1860	2000	93	90 - 110	P	10/29/2025	14:01	LB137697
	Calcium	18700	20000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Chromium	770	800	96	90 - 110	P	10/29/2025	14:01	LB137697
	Cobalt	1880	2000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Copper	961	1000	96	90 - 110	P	10/29/2025	14:01	LB137697
	Iron	3790	4000	95	90 - 110	P	10/29/2025	14:01	LB137697
	Lead	3650	4000	91	90 - 110	P	10/29/2025	14:01	LB137697
	Magnesium	18700	20000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Manganese	1870	2000	93	90 - 110	P	10/29/2025	14:01	LB137697
	Nickel	1880	2000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Potassium	18700	20000	93	90 - 110	P	10/29/2025	14:01	LB137697
	Selenium	3780	4000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Silver	969	1000	97	90 - 110	P	10/29/2025	14:01	LB137697
	Sodium	18800	20000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Thallium	3970	4000	99	90 - 110	P	10/29/2025	14:01	LB137697
	Vanadium	1860	2000	93	90 - 110	P	10/29/2025	14:01	LB137697
	Zinc	1900	2000	95	90 - 110	P	10/29/2025	14:01	LB137697

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3466

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
LLICV01	Aluminum	103	100	103	80 - 120	P	10/29/2025	14:07	LB137697
	Antimony	51.5	50.0	103	80 - 120	P	10/29/2025	14:07	LB137697
	Arsenic	21.1	20.0	105	80 - 120	P	10/29/2025	14:07	LB137697
	Barium	105	100	105	80 - 120	P	10/29/2025	14:07	LB137697
	Beryllium	6.45	6.0	108	80 - 120	P	10/29/2025	14:07	LB137697
	Cadmium	5.83	6.0	97	80 - 120	P	10/29/2025	14:07	LB137697
	Calcium	2080	2000	104	80 - 120	P	10/29/2025	14:07	LB137697
	Chromium	10.3	10.0	102	80 - 120	P	10/29/2025	14:07	LB137697
	Cobalt	30.0	30.0	100	80 - 120	P	10/29/2025	14:07	LB137697
	Copper	22.0	20.0	110	80 - 120	P	10/29/2025	14:07	LB137697
	Iron	107	100	107	80 - 120	P	10/29/2025	14:07	LB137697
	Lead	11.7	12.0	98	80 - 120	P	10/29/2025	14:07	LB137697
	Magnesium	2160	2000	108	80 - 120	P	10/29/2025	14:07	LB137697
	Manganese	21.1	20.0	105	80 - 120	P	10/29/2025	14:07	LB137697
	Nickel	40.4	40.0	101	80 - 120	P	10/29/2025	14:07	LB137697
	Potassium	1880	2000	94	80 - 120	P	10/29/2025	14:07	LB137697
	Selenium	23.1	20.0	115	80 - 120	P	10/29/2025	14:07	LB137697
	Silver	10.6	10.0	106	80 - 120	P	10/29/2025	14:07	LB137697
	Sodium	2010	2000	100	80 - 120	P	10/29/2025	14:07	LB137697
	Thallium	46.3	40.0	116	80 - 120	P	10/29/2025	14:07	LB137697
	Vanadium	41.0	40.0	103	80 - 120	P	10/29/2025	14:07	LB137697
	Zinc	43.3	40.0	108	80 - 120	P	10/29/2025	14:07	LB137697

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.: Q3466
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9780	10000	98	90 - 110	P	10/29/2025	14:37	LB137697
	Antimony	4970	5000	99	90 - 110	P	10/29/2025	14:37	LB137697
	Arsenic	4960	5000	99	90 - 110	P	10/29/2025	14:37	LB137697
	Barium	9730	10000	97	90 - 110	P	10/29/2025	14:37	LB137697
	Beryllium	250	250	100	90 - 110	P	10/29/2025	14:37	LB137697
	Cadmium	2460	2500	99	90 - 110	P	10/29/2025	14:37	LB137697
	Calcium	24800	25000	99	90 - 110	P	10/29/2025	14:37	LB137697
	Chromium	1010	1000	100	90 - 110	P	10/29/2025	14:37	LB137697
	Cobalt	2460	2500	98	90 - 110	P	10/29/2025	14:37	LB137697
	Copper	1240	1250	99	90 - 110	P	10/29/2025	14:37	LB137697
	Iron	4870	5000	97	90 - 110	P	10/29/2025	14:37	LB137697
	Lead	4900	5000	98	90 - 110	P	10/29/2025	14:37	LB137697
	Magnesium	24800	25000	99	90 - 110	P	10/29/2025	14:37	LB137697
	Manganese	2460	2500	98	90 - 110	P	10/29/2025	14:37	LB137697
	Nickel	2460	2500	98	90 - 110	P	10/29/2025	14:37	LB137697
	Potassium	24100	25000	97	90 - 110	P	10/29/2025	14:37	LB137697
	Selenium	4930	5000	99	90 - 110	P	10/29/2025	14:37	LB137697
	Silver	1240	1250	99	90 - 110	P	10/29/2025	14:37	LB137697
	Sodium	24400	25000	98	90 - 110	P	10/29/2025	14:37	LB137697
	Thallium	5060	5000	101	90 - 110	P	10/29/2025	14:37	LB137697
	Vanadium	2470	2500	99	90 - 110	P	10/29/2025	14:37	LB137697
	Zinc	2490	2500	100	90 - 110	P	10/29/2025	14:37	LB137697
CCV02	Aluminum	9400	10000	94	90 - 110	P	10/29/2025	15:43	LB137697
	Antimony	4870	5000	97	90 - 110	P	10/29/2025	15:43	LB137697
	Arsenic	4840	5000	97	90 - 110	P	10/29/2025	15:43	LB137697
	Barium	9610	10000	96	90 - 110	P	10/29/2025	15:43	LB137697
	Beryllium	243	250	97	90 - 110	P	10/29/2025	15:43	LB137697
	Cadmium	2420	2500	97	90 - 110	P	10/29/2025	15:43	LB137697
	Calcium	24100	25000	96	90 - 110	P	10/29/2025	15:43	LB137697
	Chromium	988	1000	99	90 - 110	P	10/29/2025	15:43	LB137697
	Cobalt	2420	2500	97	90 - 110	P	10/29/2025	15:43	LB137697
	Copper	1220	1250	98	90 - 110	P	10/29/2025	15:43	LB137697
	Iron	4870	5000	98	90 - 110	P	10/29/2025	15:43	LB137697
	Lead	4820	5000	96	90 - 110	P	10/29/2025	15:43	LB137697

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3466

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	24200	25000	97	90 - 110	P	10/29/2025	15:43	LB137697
	Manganese	2390	2500	96	90 - 110	P	10/29/2025	15:43	LB137697
	Nickel	2430	2500	97	90 - 110	P	10/29/2025	15:43	LB137697
	Potassium	24000	25000	96	90 - 110	P	10/29/2025	15:43	LB137697
	Selenium	4790	5000	96	90 - 110	P	10/29/2025	15:43	LB137697
	Silver	1230	1250	98	90 - 110	P	10/29/2025	15:43	LB137697
	Sodium	23900	25000	96	90 - 110	P	10/29/2025	15:43	LB137697
	Thallium	4740	5000	95	90 - 110	P	10/29/2025	15:43	LB137697
	Vanadium	2400	2500	96	90 - 110	P	10/29/2025	15:43	LB137697
	Zinc	2440	2500	98	90 - 110	P	10/29/2025	15:43	LB137697
CCV03	Aluminum	9730	10000	97	90 - 110	P	10/29/2025	16:37	LB137697
	Antimony	5120	5000	102	90 - 110	P	10/29/2025	16:37	LB137697
	Arsenic	5080	5000	102	90 - 110	P	10/29/2025	16:37	LB137697
	Barium	9730	10000	97	90 - 110	P	10/29/2025	16:37	LB137697
	Beryllium	249	250	100	90 - 110	P	10/29/2025	16:37	LB137697
	Cadmium	2510	2500	100	90 - 110	P	10/29/2025	16:37	LB137697
	Calcium	25000	25000	100	90 - 110	P	10/29/2025	16:37	LB137697
	Chromium	1030	1000	103	90 - 110	P	10/29/2025	16:37	LB137697
	Cobalt	2520	2500	101	90 - 110	P	10/29/2025	16:37	LB137697
	Copper	1270	1250	102	90 - 110	P	10/29/2025	16:37	LB137697
	Iron	5080	5000	102	90 - 110	P	10/29/2025	16:37	LB137697
	Lead	5020	5000	100	90 - 110	P	10/29/2025	16:37	LB137697
	Magnesium	25000	25000	100	90 - 110	P	10/29/2025	16:37	LB137697
	Manganese	2470	2500	99	90 - 110	P	10/29/2025	16:37	LB137697
	Nickel	2510	2500	101	90 - 110	P	10/29/2025	16:37	LB137697
	Potassium	25200	25000	101	90 - 110	P	10/29/2025	16:37	LB137697
	Selenium	5070	5000	101	90 - 110	P	10/29/2025	16:37	LB137697
	Silver	1280	1250	102	90 - 110	P	10/29/2025	16:37	LB137697
	Sodium	25300	25000	101	90 - 110	P	10/29/2025	16:37	LB137697
	Thallium	4740	5000	95	90 - 110	P	10/29/2025	16:37	LB137697
CCV04	Vanadium	2500	2500	100	90 - 110	P	10/29/2025	16:37	LB137697
	Zinc	2560	2500	102	90 - 110	P	10/29/2025	16:37	LB137697
	Aluminum	9640	10000	96	90 - 110	P	10/29/2025	17:27	LB137697
	Antimony	4930	5000	99	90 - 110	P	10/29/2025	17:27	LB137697

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3466

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
CCV04	Arsenic	4980	5000	100	90 - 110	P	10/29/2025	17:27	LB137697
	Barium	9640	10000	96	90 - 110	P	10/29/2025	17:27	LB137697
	Beryllium	262	250	105	90 - 110	P	10/29/2025	17:27	LB137697
	Cadmium	2500	2500	100	90 - 110	P	10/29/2025	17:27	LB137697
	Calcium	24600	25000	98	90 - 110	P	10/29/2025	17:27	LB137697
	Chromium	1020	1000	102	90 - 110	P	10/29/2025	17:27	LB137697
	Cobalt	2480	2500	99	90 - 110	P	10/29/2025	17:27	LB137697
	Copper	1250	1250	100	90 - 110	P	10/29/2025	17:27	LB137697
	Iron	4700	5000	94	90 - 110	P	10/29/2025	17:27	LB137697
	Lead	4950	5000	99	90 - 110	P	10/29/2025	17:27	LB137697
	Magnesium	25100	25000	101	90 - 110	P	10/29/2025	17:27	LB137697
	Manganese	2460	2500	99	90 - 110	P	10/29/2025	17:27	LB137697
	Nickel	2490	2500	100	90 - 110	P	10/29/2025	17:27	LB137697
	Potassium	23500	25000	94	90 - 110	P	10/29/2025	17:27	LB137697
	Selenium	4940	5000	99	90 - 110	P	10/29/2025	17:27	LB137697
	Silver	1250	1250	100	90 - 110	P	10/29/2025	17:27	LB137697
	Sodium	23700	25000	95	90 - 110	P	10/29/2025	17:27	LB137697
	Thallium	5310	5000	106	90 - 110	P	10/29/2025	17:27	LB137697
	Vanadium	2460	2500	98	90 - 110	P	10/29/2025	17:27	LB137697
	Zinc	2490	2500	100	90 - 110	P	10/29/2025	17:27	LB137697
CCV05	Aluminum	9470	10000	95	90 - 110	P	10/29/2025	18:03	LB137697
	Antimony	4830	5000	97	90 - 110	P	10/29/2025	18:03	LB137697
	Arsenic	4850	5000	97	90 - 110	P	10/29/2025	18:03	LB137697
	Barium	9570	10000	96	90 - 110	P	10/29/2025	18:03	LB137697
	Beryllium	252	250	101	90 - 110	P	10/29/2025	18:03	LB137697
	Cadmium	2440	2500	98	90 - 110	P	10/29/2025	18:03	LB137697
	Calcium	24400	25000	98	90 - 110	P	10/29/2025	18:03	LB137697
	Chromium	998	1000	100	90 - 110	P	10/29/2025	18:03	LB137697
	Cobalt	2430	2500	97	90 - 110	P	10/29/2025	18:03	LB137697
	Copper	1220	1250	98	90 - 110	P	10/29/2025	18:03	LB137697
	Iron	4780	5000	96	90 - 110	P	10/29/2025	18:03	LB137697
	Lead	4840	5000	97	90 - 110	P	10/29/2025	18:03	LB137697
	Magnesium	24700	25000	99	90 - 110	P	10/29/2025	18:03	LB137697
	Manganese	2440	2500	98	90 - 110	P	10/29/2025	18:03	LB137697

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3466

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
CCV05	Nickel	2430	2500	97	90 - 110	P	10/29/2025	18:03	LB137697
	Potassium	23100	25000	92	90 - 110	P	10/29/2025	18:03	LB137697
	Selenium	4830	5000	96	90 - 110	P	10/29/2025	18:03	LB137697
	Silver	1220	1250	98	90 - 110	P	10/29/2025	18:03	LB137697
	Sodium	23200	25000	93	90 - 110	P	10/29/2025	18:03	LB137697
	Thallium	5070	5000	102	90 - 110	P	10/29/2025	18:03	LB137697
	Vanadium	2430	2500	97	90 - 110	P	10/29/2025	18:03	LB137697
	Zinc	2450	2500	98	90 - 110	P	10/29/2025	18:03	LB137697
CCV06	Aluminum	9450	10000	94	90 - 110	P	10/29/2025	18:55	LB137697
	Antimony	4740	5000	95	90 - 110	P	10/29/2025	18:55	LB137697
	Arsenic	4790	5000	96	90 - 110	P	10/29/2025	18:55	LB137697
	Barium	9690	10000	97	90 - 110	P	10/29/2025	18:55	LB137697
	Beryllium	253	250	101	90 - 110	P	10/29/2025	18:55	LB137697
	Cadmium	2470	2500	99	90 - 110	P	10/29/2025	18:55	LB137697
	Calcium	24500	25000	98	90 - 110	P	10/29/2025	18:55	LB137697
	Chromium	1010	1000	101	90 - 110	P	10/29/2025	18:55	LB137697
	Cobalt	2460	2500	98	90 - 110	P	10/29/2025	18:55	LB137697
	Copper	1190	1250	95	90 - 110	P	10/29/2025	18:55	LB137697
	Iron	4860	5000	97	90 - 110	P	10/29/2025	18:55	LB137697
	Lead	4920	5000	98	90 - 110	P	10/29/2025	18:55	LB137697
	Magnesium	24800	25000	99	90 - 110	P	10/29/2025	18:55	LB137697
	Manganese	2460	2500	98	90 - 110	P	10/29/2025	18:55	LB137697
	Nickel	2470	2500	99	90 - 110	P	10/29/2025	18:55	LB137697
	Potassium	26000	25000	104	90 - 110	P	10/29/2025	18:55	LB137697
	Selenium	4770	5000	95	90 - 110	P	10/29/2025	18:55	LB137697
	Silver	1240	1250	99	90 - 110	P	10/29/2025	18:55	LB137697
	Sodium	26300	25000	105	90 - 110	P	10/29/2025	18:55	LB137697
	Thallium	5490	5000	110	90 - 110	P	10/29/2025	18:55	LB137697
	Vanadium	2450	2500	98	90 - 110	P	10/29/2025	18:55	LB137697
	Zinc	2250	2500	90	90 - 110	P	10/29/2025	18:55	LB137697

Metals

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CRDL STANDARD FOR AA & ICP

Client: HDR, Inc.

SDG No.: Q3466

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
CRA	Mercury	0.16	0.2	81	70 - 130	CV	10/28/2025	13:04	LB137668
CRI01	Aluminum	97.1	100	97	65 - 135	P	10/29/2025	14:16	LB137697
	Antimony	49.9	50.0	100	65 - 135	P	10/29/2025	14:16	LB137697
	Arsenic	19.9	20.0	99	65 - 135	P	10/29/2025	14:16	LB137697
	Barium	102	100	102	65 - 135	P	10/29/2025	14:16	LB137697
	Beryllium	6.41	6.0	107	65 - 135	P	10/29/2025	14:16	LB137697
	Cadmium	5.84	6.0	97	65 - 135	P	10/29/2025	14:16	LB137697
	Calcium	2050	2000	103	65 - 135	P	10/29/2025	14:16	LB137697
	Chromium	10.3	10.0	103	65 - 135	P	10/29/2025	14:16	LB137697
	Cobalt	29.6	30.0	99	65 - 135	P	10/29/2025	14:16	LB137697
	Copper	21.6	20.0	108	65 - 135	P	10/29/2025	14:16	LB137697
	Iron	98.0	100	98	65 - 135	P	10/29/2025	14:16	LB137697
	Lead	11.6	12.0	97	65 - 135	P	10/29/2025	14:16	LB137697
	Magnesium	2120	2000	106	65 - 135	P	10/29/2025	14:16	LB137697
	Manganese	22.0	20.0	110	65 - 135	P	10/29/2025	14:16	LB137697
	Nickel	40.3	40.0	101	65 - 135	P	10/29/2025	14:16	LB137697
	Potassium	1850	2000	92	65 - 135	P	10/29/2025	14:16	LB137697
	Selenium	23.0	20.0	115	65 - 135	P	10/29/2025	14:16	LB137697
	Silver	11.0	10.0	110	65 - 135	P	10/29/2025	14:16	LB137697
	Sodium	1940	2000	97	65 - 135	P	10/29/2025	14:16	LB137697
	Thallium	44.2	40.0	111	65 - 135	P	10/29/2025	14:16	LB137697
	Vanadium	43.2	40.0	108	65 - 135	P	10/29/2025	14:16	LB137697
	Zinc	42.4	40.0	106	65 - 135	P	10/29/2025	14:16	LB137697

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>HDR, Inc.</u>	SDG No.: <u>Q3466</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	238000	255000	93	216000	294000	10/29/2025	14:21	LB137697
	Antimony	-3.02			-50	50	10/29/2025	14:21	LB137697
	Arsenic	4.77			-20	20	10/29/2025	14:21	LB137697
	Barium	5.72	6.0	95	-94	106	10/29/2025	14:21	LB137697
	Beryllium	1.70			-6	6	10/29/2025	14:21	LB137697
	Cadmium	0.66	1.0	66	-5	7	10/29/2025	14:21	LB137697
	Calcium	231000	245000	94	208000	282000	10/29/2025	14:21	LB137697
	Chromium	48.9	52.0	94	42	62	10/29/2025	14:21	LB137697
	Cobalt	1.62			-30	30	10/29/2025	14:21	LB137697
	Copper	14.1	2.0	705	-18	22	10/29/2025	14:21	LB137697
	Iron	95000	101000	94	85600	116500	10/29/2025	14:21	LB137697
	Lead	0.038			-12	12	10/29/2025	14:21	LB137697
	Magnesium	246000	255000	96	216000	294000	10/29/2025	14:21	LB137697
	Manganese	7.78	7.0	111	-13	27	10/29/2025	14:21	LB137697
	Nickel	4.85	2.0	242	-38	42	10/29/2025	14:21	LB137697
	Potassium	22.1			0	0	10/29/2025	14:21	LB137697
	Selenium	1.76			-20	20	10/29/2025	14:21	LB137697
	Silver	0.89			-10	10	10/29/2025	14:21	LB137697
	Sodium	125			0	0	10/29/2025	14:21	LB137697
	Thallium	10.3			-40	40	10/29/2025	14:21	LB137697
	Vanadium	4.98			-40	40	10/29/2025	14:21	LB137697
	Zinc	3.72			-40	40	10/29/2025	14:21	LB137697
ICSAB01	Aluminum	236000	247000	96	209000	285000	10/29/2025	14:25	LB137697
	Antimony	580	618	94	525	711	10/29/2025	14:25	LB137697
	Arsenic	105	104	101	88.4	120	10/29/2025	14:25	LB137697
	Barium	478	537	89	437	637	10/29/2025	14:25	LB137697
	Beryllium	501	495	101	420	570	10/29/2025	14:25	LB137697
	Cadmium	963	972	99	826	1120	10/29/2025	14:25	LB137697
	Calcium	229000	235000	97	199000	271000	10/29/2025	14:25	LB137697
	Chromium	538	542	99	460	624	10/29/2025	14:25	LB137697
	Cobalt	486	476	102	404	548	10/29/2025	14:25	LB137697
	Copper	474	511	93	434	588	10/29/2025	14:25	LB137697
	Iron	94700	99300	95	84400	114500	10/29/2025	14:25	LB137697
	Lead	47.4	49.0	97	37	61	10/29/2025	14:25	LB137697
	Magnesium	244000	248000	98	210000	286000	10/29/2025	14:25	LB137697
	Manganese	479	507	94	430	584	10/29/2025	14:25	LB137697
	Nickel	968	954	102	810	1100	10/29/2025	14:25	LB137697
	Potassium	-81.1			0	0	10/29/2025	14:25	LB137697
	Selenium	51.1	46.0	111	26	66	10/29/2025	14:25	LB137697
	Silver	202	201	100	170	232	10/29/2025	14:25	LB137697
	Sodium	95.8			0	0	10/29/2025	14:25	LB137697
	Thallium	105	108	97	68	148	10/29/2025	14:25	LB137697

Metals

- 4 -

INTERFERENCE CHECK SAMPLE

Client: HDR, Inc.

SDG No.: Q3466

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	469	491	96	417	565	10/29/2025	14:25	LB137697
	Zinc	999	952	105	809	1095	10/29/2025	14:25	LB137697



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client:	<u>HDR, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>Q3466</u>
contract:	<u>HDRI08</u>			lab code:	<u>ACE</u>
matrix:	<u>Solid</u>	sample id:	<u>Q3451-01</u>	client id:	<u>TP-11MS</u>

Percent Solids for Sample:	89.8	Spiked ID:	Q3451-01MS	Percent Solids for Spike Sample:	89.8
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Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.31		0.014	U	0.31	101		CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>HDR, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>Q3466</u>
contract:	<u>HDRI08</u>			lab code:	<u>ACE</u>
matrix:	<u>Solid</u>	sample id:	<u>Q3451-01</u>	client id:	<u>TP-11MSD</u>

Percent Solids for Sample:	89.8	Spiked ID:	Q3451-01MSD	Percent Solids for Spike Sample:	89.8
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Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.29		0.014	U	0.28	104		CV

metals
- 5a -
MATRIX SPIKE SUMMARY

client: HDR, Inc. **level:** low **sdg no.:** Q3466
contract: HDRI08 **lab code:** ACE
matrix: Solid **sample id:** Q3469-01 **client id:** TP-13MS

Percent Solids for Sample: 91.1 **Spiked ID:** Q3469-01MS **Percent Solids for Spike Sample:** 91.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5060		4010		97.6	1074		P
Antimony	mg/Kg	75 - 125	17.8		2.39	U	39.0	46	N	P
Arsenic	mg/Kg	75 - 125	34.8		1.48		39.0	85		P
Barium	mg/Kg	75 - 125	23.8		14.2		9.8	98		P
Beryllium	mg/Kg	75 - 125	8.81		0.35		9.8	86		P
Cadmium	mg/Kg	75 - 125	9.63		0.064	J	9.8	98		P
Calcium	mg/Kg	75 - 125	683		554		48.8	263		P
Chromium	mg/Kg	75 - 125	23.9		5.56		19.5	94		P
Cobalt	mg/Kg	75 - 125	13.6		3.16		9.8	107		P
Copper	mg/Kg	75 - 125	31.1		16.0		14.6	103		P
Iron	mg/Kg	75 - 125	9800		7710		150	1393		P
Lead	mg/Kg	75 - 125	52.8		5.18		48.8	97		P
Magnesium	mg/Kg	75 - 125	1310		1130		97.6	180		P
Manganese	mg/Kg	75 - 125	213		192		9.8	213		P
Nickel	mg/Kg	75 - 125	31.8		6.36		24.4	104		P
Potassium	mg/Kg	75 - 125	951		413		490	110		P
Selenium	mg/Kg	75 - 125	79.7		0.96	U	97.6	82		P
Silver	mg/Kg	75 - 125	3.42		0.12	J	3.7	89		P
Sodium	mg/Kg	75 - 125	484		321		150	109		P
Thallium	mg/Kg	75 - 125	95.9		1.91	U	97.6	98		P
Vanadium	mg/Kg	75 - 125	22.6		8.79		14.6	95		P
Zinc	mg/Kg	75 - 125	23.8		13.4		9.8	106		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>HDR, Inc.</u>	level: <u>low</u>	sdg no.: <u>Q3466</u>
contract: <u>HDRI08</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q3469-01</u>	client id: <u>TP-13MSD</u>
Percent Solids for Sample: 91.1	Spiked ID: Q3469-01MSD	Percent Solids for Spike Sample: 91.1

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	4210		4010		96.3	206		P
Antimony	mg/Kg	75 - 125	17.4		2.39	U	38.5	45	N	P
Arsenic	mg/Kg	75 - 125	32.8		1.48		38.5	81		P
Barium	mg/Kg	75 - 125	21.4		14.2		9.6	76		P
Beryllium	mg/Kg	75 - 125	8.08		0.35		9.6	81		P
Cadmium	mg/Kg	75 - 125	8.83		0.064	J	9.6	91		P
Calcium	mg/Kg	75 - 125	568		554		48.1	29		P
Chromium	mg/Kg	75 - 125	21.4		5.56		19.3	82		P
Cobalt	mg/Kg	75 - 125	12.2		3.16		9.6	94		P
Copper	mg/Kg	75 - 125	27.2		16.0		14.4	78		P
Iron	mg/Kg	75 - 125	7310		7710		140	-287		P
Lead	mg/Kg	75 - 125	48.0		5.18		48.1	89		P
Magnesium	mg/Kg	75 - 125	1110		1130		96.3	-29		P
Manganese	mg/Kg	75 - 125	190		192		9.6	-17		P
Nickel	mg/Kg	75 - 125	28.3		6.36		24.1	91		P
Potassium	mg/Kg	75 - 125	847		413		480	91		P
Selenium	mg/Kg	75 - 125	76.2		0.96	U	96.3	79		P
Silver	mg/Kg	75 - 125	3.19		0.12	J	3.6	85		P
Sodium	mg/Kg	75 - 125	425		321		140	75		P
Thallium	mg/Kg	75 - 125	87.8		1.91	U	96.3	91		P
Vanadium	mg/Kg	75 - 125	20.0		8.79		14.4	78		P
Zinc	mg/Kg	75 - 125	20.4		13.4		9.6	73	N	P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: HDR, Inc.

SDG No.: Q3466

Contract: HDRI08

Lab Code: ACE

Matrix: Solid

Level: LOW

Client ID: TP-13A

Sample ID: Q3469-01

Spiked ID: Q3469-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	31.3		2.39	U	38.2	82		P
Zinc	mg/Kg	75 - 125	21.4		13.4		9.50	84		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>HDR, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3466</u>
Contract:	<u>HDRI08</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q3451-01</u>	Client ID:	<u>TP-11DUP</u>
Percent Solids for Sample:	89.8	Duplicate ID	Q3451-01DUP	Percent Solids for Spike Sample:	89.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.014	U	0.014	U			CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>HDR, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3466</u>
Contract:	<u>HDRI08</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q3451-01MS</u>	Client ID:	<u>TP-11MSD</u>
Percent Solids for Sample:	89.8	Duplicate ID	Q3451-01MSD	Percent Solids for Spike Sample:	89.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.31		0.29		7		CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>HDR, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3466</u>
Contract:	<u>HDRI08</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q3469-01</u>	Client ID:	<u>TP-13DUP</u>
Percent Solids for Sample:	91.1	Duplicate ID	Q3469-01DUP	Percent Solids for Spike Sample:	91.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	4010		3830		5		P
Antimony	mg/Kg	20	2.39	U	2.45	U			P
Arsenic	mg/Kg	20	1.48		1.50		1		P
Barium	mg/Kg	20	14.2		13.2		7		P
Beryllium	mg/Kg	20	0.35		0.33		5		P
Cadmium	mg/Kg	20	0.064	J	0.045	J	35		P
Calcium	mg/Kg	20	554		541		2		P
Chromium	mg/Kg	20	5.56		6.20		11		P
Cobalt	mg/Kg	20	3.16		3.21		2		P
Copper	mg/Kg	20	16.0		16.1		1		P
Iron	mg/Kg	20	7710		7810		1		P
Lead	mg/Kg	20	5.18		5.11		1		P
Magnesium	mg/Kg	20	1130		1030		9		P
Manganese	mg/Kg	20	192		176		9		P
Nickel	mg/Kg	20	6.36		6.27		1		P
Potassium	mg/Kg	20	413		447		8		P
Selenium	mg/Kg	20	0.96	U	0.98	U			P
Silver	mg/Kg	20	0.12	J	0.15	J	24		P
Sodium	mg/Kg	20	321		314		2		P
Thallium	mg/Kg	20	1.91	U	1.96	U			P
Vanadium	mg/Kg	20	8.79		9.48		8		P
Zinc	mg/Kg	20	13.4		12.9		4		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>HDR, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3466</u>
Contract:	<u>HDRI08</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q3469-01MS</u>	Client ID:	<u>TP-13MSD</u>
Percent Solids for Sample:	91.1	Duplicate ID	Q3469-01MSD	Percent Solids for Spike Sample:	91.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	5060		4210		18		P
Antimony	mg/Kg	20	17.8		17.4		2		P
Arsenic	mg/Kg	20	34.8		32.8		6		P
Barium	mg/Kg	20	23.8		21.4		11		P
Beryllium	mg/Kg	20	8.81		8.08		9		P
Cadmium	mg/Kg	20	9.63		8.83		9		P
Calcium	mg/Kg	20	683		568		18		P
Chromium	mg/Kg	20	23.9		21.4		11		P
Cobalt	mg/Kg	20	13.6		12.2		11		P
Copper	mg/Kg	20	31.1		27.2		13		P
Iron	mg/Kg	20	9800		7310		29	*	P
Lead	mg/Kg	20	52.8		48.0		10		P
Magnesium	mg/Kg	20	1310		1110		17		P
Manganese	mg/Kg	20	213		190		11		P
Nickel	mg/Kg	20	31.8		28.3		12		P
Potassium	mg/Kg	20	951		847		12		P
Selenium	mg/Kg	20	79.7		76.2		4		P
Silver	mg/Kg	20	3.42		3.19		7		P
Sodium	mg/Kg	20	484		425		13		P
Thallium	mg/Kg	20	95.9		87.8		9		P
Vanadium	mg/Kg	20	22.6		20.0		12		P
Zinc	mg/Kg	20	23.8		20.4		15		P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: HDR, Inc.

SDG No.: Q3466

Contract: HDRI08

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170271BS Mercury	mg/Kg	0.28	0.28		99	80 - 120	CV

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client:	<u>HDR, Inc.</u>	SDG No.:	<u>Q3466</u>
Contract:	<u>HDRI08</u>	Lab Code:	<u>ACE</u>

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170288BS							
Aluminum	mg/Kg	100	93.0		93	80 - 120	P
Antimony	mg/Kg	40.0	39.5		99	80 - 120	P
Arsenic	mg/Kg	40.0	38.1		95	80 - 120	P
Barium	mg/Kg	10.0	9.56		96	80 - 120	P
Beryllium	mg/Kg	10.0	9.94		99	80 - 120	P
Cadmium	mg/Kg	10.0	9.14		91	80 - 120	P
Calcium	mg/Kg	50.0	48.9	J	98	80 - 120	P
Chromium	mg/Kg	20.0	19.8		99	80 - 120	P
Cobalt	mg/Kg	10.0	9.39		94	80 - 120	P
Copper	mg/Kg	15.0	15.0		100	80 - 120	P
Iron	mg/Kg	150	143		95	80 - 120	P
Lead	mg/Kg	50.0	45.7		91	80 - 120	P
Magnesium	mg/Kg	100	97.2	J	97	80 - 120	P
Manganese	mg/Kg	10.0	9.70		97	80 - 120	P
Nickel	mg/Kg	25.0	23.6		94	80 - 120	P
Potassium	mg/Kg	500	464		93	80 - 120	P
Selenium	mg/Kg	100	94.6		95	80 - 120	P
Silver	mg/Kg	3.8	3.72		98	80 - 120	P
Sodium	mg/Kg	150	144		96	80 - 120	P
Thallium	mg/Kg	100	84.7		85	80 - 120	P
Vanadium	mg/Kg	15.0	14.5		97	80 - 120	P
Zinc	mg/Kg	10.0	9.93		99	80 - 120	P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

TP-11L

Lab Name: Alliance **Contract:** HDRI08
Lab Code: ACE **Lb No.:** lb137668 **Lab Sample ID :** Q3451-01L **SDG No.:** Q3466
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
Mercury	0.014 U	0.071 U			CV

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

TP-13L

Lab Name: Alliance **Contract:** HDRI08
Lab Code: ACE **Lb No.:** lb137697 **Lab Sample ID :** Q3469-01L **SDG No.:** Q3466
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	4010		4630		15		P
Antimony	2.39	U	11.9	U			P
Arsenic	1.48		1.52	J	2		P
Barium	14.2		16.8	J	18		P
Beryllium	0.35		0.41	J	19		P
Cadmium	0.064	J	1.43	U	100.0		P
Calcium	554		641		16		P
Chromium	5.56		6.24		12		P
Cobalt	3.16		3.21	J	2		P
Copper	16.0		19.5		22		P
Iron	7710		8790		14		P
Lead	5.18		5.45		5		P
Magnesium	1130		1300		15		P
Manganese	192		224		17		P
Nickel	6.36		6.52	J	3		P
Potassium	413		433	J	5		P
Selenium	0.96	U	4.77	U			P
Silver	0.12	J	2.39	U	100.0		P
Sodium	321		345	J	7		P
Thallium	1.91	U	9.55	U			P
Vanadium	8.79		10.9		24		P
Zinc	13.4		15.4		14		P

metals
- 14 -
ANALYSIS RUN LOG

Client: HDR, Inc.

Contract: HDRI08

Lab code: ACE

Sdg no.: Q3466

Instrument id number: _____

Method: _____

Run number: LB137668

Start date: 10/28/2025

End date: 10/28/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1232	HG
S0.2	S0.2	1	1235	HG
S2.5	S2.5	1	1237	HG
S5	S5	1	1239	HG
S7.5	S7.5	1	1242	HG
S10	S10	1	1245	HG
ICV90	ICV90	1	1251	HG
ICB90	ICB90	1	1253	HG
CCV97	CCV97	1	1256	HG
CCB97	CCB97	1	1258	HG
CRA	CRA	1	1304	HG
PB170271BL	PB170271BL	1	1311	HG
PB170271BS	PB170271BS	1	1314	HG
Q3451-01DUP	TP-11DUP	1	1321	HG
Q3451-01MS	TP-11MS	1	1324	HG
Q3451-01MSD	TP-11MSD	1	1326	HG
CCV98	CCV98	1	1331	HG
CCB98	CCB98	1	1333	HG
Q3466-02	B8-0.0-1.0-20251023	1	1356	HG
Q3466-05	B9-0.0-1.0-20251023	1	1358	HG
CCV99	CCV99	1	1401	HG
CCB99	CCB99	1	1403	HG
Q3466-07	B7-1.0-2.0-20251023	1	1406	HG
Q3451-01L	TP-11L	5	1411	HG
CCV100	CCV100	1	1423	HG
CCB100	CCB100	1	1425	HG

metals
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ANALYSIS RUN LOG

Client: HDR, Inc.

Contract: HDRI08

Lab code: ACE

Sdg no.: Q3466

Instrument id number: _____

Method: _____

Run number: LB137697

Start date: 10/29/2025

End date: 10/29/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1336	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	1340	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	1344	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	1349	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	1353	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	1357	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	1401	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1407	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	1412	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	1416	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	1421	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	1425	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	1437	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	1441	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB170288BL	PB170288BL	1	1504	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB170288BS	PB170288BS	1	1508	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3466-02	B8-0.0-1.0-20251023	1	1516	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3466-05	B9-0.0-1.0-20251023	1	1520	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3466-07	B7-1.0-2.0-20251023	1	1524	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	1543	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	1548	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3469-01DUP	TP-13DUP	1	1556	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3469-01L	TP-13L	5	1600	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3469-01MS	TP-13MS	1	1604	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3469-01MSD	TP-13MSD	1	1608	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3469-01A	TP-13A	1	1612	Sb,Zn
CCV03	CCV03	1	1637	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	1641	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	1727	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	1731	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	1803	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	1807	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	1855	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	1904	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: HDR, Inc.

SDG No.: Q3466

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.: Q3466

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:				
		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.: Q3466

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.: Q3466

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.: Q3466

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:	Q3466	OrderDate:	10/24/2025 3:18:10 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
Q3466-02	B8-0.0-1.0-20251023	SOIL	Mercury	7471B	10/23/25	10/27/25	10/28/25	10/24/25
			Metals ICP-TAL	6010D		10/28/25	10/29/25	
Q3466-05	B9-0.0-1.0-20251023	SOIL	Mercury	7471B	10/23/25	10/27/25	10/28/25	10/24/25
			Metals ICP-TAL	6010D		10/28/25	10/29/25	
Q3466-07	B7-1.0-2.0-20251023	SOIL	Mercury	7471B	10/23/25	10/27/25	10/28/25	10/24/25
			Metals ICP-TAL	6010D		10/28/25	10/29/25	



METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client: HDR, Inc.

SDG No.: Q3466

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: PB170271							
PB170271BL	PB170271BL	MB	SOLID	10/27/2025	0.50	35.0	100.00
PB170271BS	PB170271BS	LCS	SOLID	10/27/2025	0.50	35.0	100.00
Q3451-01DUP	TP-11DUP	DUP	SOLID	10/27/2025	0.56	35.0	89.80
Q3451-01MS	TP-11MS	MS	SOLID	10/27/2025	0.50	35.0	89.80
Q3451-01MSD	TP-11MSD	MSD	SOLID	10/27/2025	0.55	35.0	89.80
Q3466-02	B8-0.0-1.0-20251023	SAM	SOLID	10/27/2025	0.53	35.0	85.30
Q3466-05	B9-0.0-1.0-20251023	SAM	SOLID	10/27/2025	0.56	35.0	83.20
Q3466-07	B7-1.0-2.0-20251023	SAM	SOLID	10/27/2025	0.57	35.0	89.20

Metals

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SAMPLE PREPARATION SUMMARY

Client: HDR, Inc.

SDG No.: Q3466

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: PB170288							
PB170288BL	PB170288BL	MB	SOLID	10/28/2025	2.00	100.0	100.00
PB170288BS	PB170288BS	LCS	SOLID	10/28/2025	2.00	100.0	100.00
Q3466-02	B8-0.0-1.0-20251023	SAM	SOLID	10/28/2025	2.14	100.0	85.30
Q3466-05	B9-0.0-1.0-20251023	SAM	SOLID	10/28/2025	2.14	100.0	83.20
Q3466-07	B7-1.0-2.0-20251023	SAM	SOLID	10/28/2025	2.20	100.0	89.20
Q3469-01DUP	TP-13DUP	DUP	SOLID	10/28/2025	2.24	100.0	91.10
Q3469-01MS	TP-13MS	MS	SOLID	10/28/2025	2.25	100.0	91.10
Q3469-01MSD	TP-13MSD	MSD	SOLID	10/28/2025	2.28	100.0	91.10

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137668

Review By	mohan	Review On	10/30/2025 3:55:07 PM
Supervise By	jaswal	Supervise On	10/30/2025 3:55:31 PM
STD. NAME	STD REF.#		
ICAL Standard	MP87754,MP87755,MP87756,MP87757,MP87758,MP87759		
ICV Standard	MP87760		
CCV Standard	MP87762		
ICSA Standard			
CRI Standard	MP87764		
LCS Standard			
Chk Standard	MP87761,MP87763,MP87765,MP87751		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/28/25 12:32		mohan	OK
2	S0.2	S0.2	CAL2	10/28/25 12:35		mohan	OK
3	S2.5	S2.5	CAL3	10/28/25 12:37		mohan	OK
4	S5	S5	CAL4	10/28/25 12:39		mohan	OK
5	S7.5	S7.5	CAL5	10/28/25 12:42		mohan	OK
6	S10	S10	CAL6	10/28/25 12:45		mohan	OK
7	ICV90	ICV90	ICV	10/28/25 12:51		mohan	OK
8	ICB90	ICB90	ICB	10/28/25 12:53		mohan	OK
9	CCV97	CCV97	CCV	10/28/25 12:56		mohan	OK
10	CCB97	CCB97	CCB	10/28/25 12:58		mohan	OK
11	CRA	CRA	CRDL	10/28/25 13:04		mohan	OK
12	HighStd	HighStd	HIGH STD	10/28/25 13:06		mohan	OK
13	ChkStd	ChkStd	SAM	10/28/25 13:08		mohan	OK
14	PB170271BL	PB170271BL	MB	10/28/25 13:11		mohan	OK
15	PB170271BS	PB170271BS	LCS	10/28/25 13:14		mohan	OK
16	Q3451-01	TP-11	SAM	10/28/25 13:16		mohan	OK
17	Q3451-01DUP	TP-11DUP	DUP	10/28/25 13:21		mohan	OK
18	Q3451-01MS	TP-11MS	MS	10/28/25 13:24		mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137668

Review By	mohan	Review On	10/30/2025 3:55:07 PM
Supervise By	jaswal	Supervise On	10/30/2025 3:55:31 PM
STD. NAME	STD REF.#		
ICAL Standard	MP87754,MP87755,MP87756,MP87757,MP87758,MP87759		
ICV Standard	MP87760		
CCV Standard	MP87762		
ICSA Standard			
CRI Standard	MP87764		
LCS Standard			
Chk Standard	MP87761,MP87763,MP87765,MP87751		

19	Q3451-01MSD	TP-11MSD	MSD	10/28/25 13:26		mohan	OK
20	Q3451-05	TP-12	SAM	10/28/25 13:29		mohan	OK
21	CCV98	CCV98	CCV	10/28/25 13:31		mohan	OK
22	CCB98	CCB98	CCB	10/28/25 13:33		mohan	OK
23	Q3452-01	JB-1	SAM	10/28/25 13:36	Hg is High , Need dilution	mohan	Dilution
24	Q3457-01	TR-05-102425	SAM	10/28/25 13:38		mohan	OK
25	Q3460-01	WC-1	SAM	10/28/25 13:41		mohan	OK
26	Q3460-05	WC-2	SAM	10/28/25 13:44		mohan	OK
27	Q3460-09	WC-3	SAM	10/28/25 13:46		mohan	OK
28	Q3460-13	WC-4	SAM	10/28/25 13:49		mohan	OK
29	Q3460-17	WC-5	SAM	10/28/25 13:51		mohan	OK
30	Q3465-01	SU-03-10242025	SAM	10/28/25 13:54		mohan	OK
31	Q3466-02	B8-0.0-1.0-20251023	SAM	10/28/25 13:56		mohan	OK
32	Q3466-05	B9-0.0-1.0-20251023	SAM	10/28/25 13:58		mohan	OK
33	CCV99	CCV99	CCV	10/28/25 14:01		mohan	OK
34	CCB99	CCB99	CCB	10/28/25 14:03		mohan	OK
35	Q3466-07	B7-1.0-2.0-20251023	SAM	10/28/25 14:06		mohan	OK
36	Q3469-01	TP-13	SAM	10/28/25 14:08		mohan	OK
37	Q3451-01L	TP-11L	SD	10/28/25 14:11		mohan	OK
38	Q3451-01A	TP-11A	PS	10/28/25 14:13		mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137668

Review By	mohan	Review On	10/30/2025 3:55:07 PM
Supervise By	jaswal	Supervise On	10/30/2025 3:55:31 PM
STD. NAME	STD REF.#		
ICAL Standard	MP87754,MP87755,MP87756,MP87757,MP87758,MP87759		
ICV Standard	MP87760		
CCV Standard	MP87762		
ICSA Standard			
CRI Standard	MP87764		
LCS Standard			
Chk Standard	MP87761,MP87763,MP87765,MP87751		

39	Q3452-01DL	JB-1DL	SAM	10/28/25 14:20	10X For Hg	mohan	Confirms
40	CCV100	CCV100	CCV	10/28/25 14:23		mohan	OK
41	CCB100	CCB100	CCB	10/28/25 14:25		mohan	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137697

Review By	Janvi	Review On	10/31/2025 10:49:23 AM
Supervise By	mohan	Supervise On	11/3/2025 10:12:07 AM
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	10/29/25 13:36		Jaswal	OK
2	S1	S1	CAL2	10/29/25 13:40		Jaswal	OK
3	S2	S2	CAL3	10/29/25 13:44		Jaswal	OK
4	S3	S3	CAL4	10/29/25 13:49		Jaswal	OK
5	S4	S4	CAL5	10/29/25 13:53		Jaswal	OK
6	S5	S5	CAL6	10/29/25 13:57		Jaswal	OK
7	ICV01	ICV01	ICV	10/29/25 14:01		Jaswal	OK
8	LLICV01	LLICV01	LLICV	10/29/25 14:07		Jaswal	OK
9	ICB01	ICB01	ICB	10/29/25 14:12		Jaswal	OK
10	CRI01	CRI01	CRDL	10/29/25 14:16		Jaswal	OK
11	ICSA01	ICSA01	ICSA	10/29/25 14:21		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	10/29/25 14:25		Jaswal	OK
13	ICSADL	ICSADL	ICSA	10/29/25 14:29		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	10/29/25 14:33		Jaswal	OK
15	CCV01	CCV01	CCV	10/29/25 14:37		Jaswal	OK
16	CCB01	CCB01	CCB	10/29/25 14:41		Jaswal	OK
17	LR-1	LR-1	HIGH STD	10/29/25 14:46		Jaswal	OK
18	LR-2	LR-2	HIGH STD	10/29/25 14:50		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137697

Review By	Janvi	Review On	10/31/2025 10:49:23 AM
Supervise By	mohan	Supervise On	11/3/2025 10:12:07 AM
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	LR-3	LR-3	HIGH STD	10/29/25 14:55		Jaswal	OK
20	Q3465-01	SU-03-10242025	SAM	10/29/25 15:00		Jaswal	OK
21	PB170288BL	PB170288BL	MB	10/29/25 15:04		Jaswal	OK
22	PB170288BS	PB170288BS	LCS	10/29/25 15:08		Jaswal	OK
23	Q3447-05DL2	P001-TW3-251023-01	SAM	10/29/25 15:12	10X for Cu,Pb	Jaswal	Confirms
24	Q3466-02	B8-0.0-1.0-20251023	SAM	10/29/25 15:16		Jaswal	OK
25	Q3466-05	B9-0.0-1.0-20251023	SAM	10/29/25 15:20		Jaswal	OK
26	Q3466-07	B7-1.0-2.0-20251023	SAM	10/29/25 15:24		Jaswal	OK
27	CCV02	CCV02	CCV	10/29/25 15:43		Jaswal	OK
28	CCB02	CCB02	CCB	10/29/25 15:48		Jaswal	OK
29	Q3469-01	TP-13	SAM	10/29/25 15:52		Jaswal	OK
30	Q3469-01DUP	TP-13DUP	DUP	10/29/25 15:56		Jaswal	OK
31	Q3469-01L	TP-13L	SD	10/29/25 16:00		Jaswal	OK
32	Q3469-01MS	TP-13MS	MS	10/29/25 16:04		Jaswal	OK
33	Q3469-01MSD	TP-13MSD	MSD	10/29/25 16:08		Jaswal	OK
34	Q3469-01A	TP-13A	PS	10/29/25 16:12	0.1ml of each m6008 and m6017 in 10ml sample.	Jaswal	OK
35	PB170264BL	PB170264BL	MB	10/29/25 16:16		Jaswal	OK
36	PB170264BS	PB170264BS	LCS	10/29/25 16:24		Jaswal	OK
37	Q3442-01	SW-1	SAM	10/29/25 16:29		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137697

Review By	Janvi	Review On	10/31/2025 10:49:23 AM
Supervise By	mohan	Supervise On	11/3/2025 10:12:07 AM
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		

38	Q3464-02	MW3	SAM	10/29/25 16:33		Jaswal	OK
39	CCV03	CCV03	CCV	10/29/25 16:37		Jaswal	OK
40	CCB03	CCB03	CCB	10/29/25 16:41		Jaswal	OK
41	Q3464-01	MW2	SAM	10/29/25 16:45		Jaswal	OK
42	Q3464-01DUP	MW2DUP	DUP	10/29/25 16:50		Jaswal	OK
43	Q3464-01L	MW2L	SD	10/29/25 16:54		Jaswal	OK
44	Q3464-01MS	MW2MS	MS	10/29/25 16:58		Jaswal	OK
45	Q3464-01MSD	MW2MSD	MSD	10/29/25 17:02		Jaswal	OK
46	Q3464-01A	MW2A	PS	10/29/25 17:06	0.1ml of each m6008 and m6017 in 10ml sample.	Jaswal	OK
47	Q3476-01	NB-07-102825	SAM	10/29/25 17:19		Jaswal	OK
48	Q3477-01	SOUTH-MAHWAH-SO	SAM	10/29/25 17:23		Jaswal	OK
49	CCV04	CCV04	CCV	10/29/25 17:27		Jaswal	OK
50	CCB04	CCB04	CCB	10/29/25 17:31		Jaswal	OK
51	Q3480-01	RT3449	SAM	10/29/25 17:35	Ag is oversaturated, Need dilution	Jaswal	Dilution
52	Q3481-01	OR-02-102825	SAM	10/29/25 17:39		Jaswal	OK
53	Q3481-01DUP	OR-02-102825DUP	DUP	10/29/25 17:43		Jaswal	OK
54	Q3481-01L	OR-02-102825L	SD	10/29/25 17:48		Jaswal	OK
55	Q3481-01MS	OR-02-102825MS	MS	10/29/25 17:52		Jaswal	OK
56	Q3481-01MSD	OR-02-102825MSD	MSD	10/29/25 17:56		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137697

Review By	Janvi	Review On	10/31/2025 10:49:23 AM
Supervise By	mohan	Supervise On	11/3/2025 10:12:07 AM

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

57	Q3481-01A	OR-02-102825A	PS	10/29/25 17:59	0.1ml of each m6008 and m6017 in 10ml sample.	Jaswal	OK
58	CCV05	CCV05	CCV	10/29/25 18:03		Jaswal	OK
59	CCB05	CCB05	CCB	10/29/25 18:07		Jaswal	OK
60	Q3420-05	COMPOSITE	SAM	10/29/25 18:12	Na oversaturated	Jaswal	Dilution
61	Q3420-05DUP	COMPOSITEDUP	DUP	10/29/25 18:16	Na High	Jaswal	Dilution
62	Q3420-05L	COMPOSITEL	SD	10/29/25 18:20	Na High in original/dup/ms/msd	Jaswal	Dilution
63	Q3420-05MS	COMPOSITEMS	MS	10/29/25 18:25	Na High	Jaswal	Dilution
64	Q3420-05MSD	COMPOSITEMSD	MSD	10/29/25 18:29	Na High	Jaswal	Dilution
65	Q3420-05A	COMPOSITEA	PS	10/29/25 18:33	Na High, 0.1ml of each m6008 and m6017 in 10ml sample.	Jaswal	Dilution
66	CCV06	CCV06	CCV	10/29/25 18:55		Jaswal	OK
67	CCB06	CCB06	CCB	10/29/25 19:04		Jaswal	OK

SOP ID : M7471B-Mercury-19

SDG No : NA

Start Digest Date: 10/27/2025 Time : 14:40 Temp : 94 °C

Matrix : SOIL

End Digest Date: 10/27/2025 Time : 15:10 Temp : 94 °C

Pipette ID: HG A

Digestion tube ID: M5595

Balance ID : M SC-3

Block thermometer ID: HG-DIG#3

Filter paper ID : N/A

Dig Technician Signature: m h

pH Strip ID : NA

Supervisor Signature: m h

Hood ID : #1

Temp : 1. 94°C 2. N/A

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

Standard Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP87742
CCV	30mL	MP87744
CRA	30mL	MP87746
Blank Spike	0.48mL	MP87734
Matrix Spike	0.48mL	MP87734

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5ML	MP87748
KMnO4 (5%)	4.5mL	MP87072
Hydroxylamine HCL (12%)	2.0ML	MP87149
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

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP87735
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP87737
2.5 ppb	S2.5	30mL	MP87738
5.0 ppb	S5.0	30mL	MP87739
7.5 ppb	S7.5	30mL	MP87740
10.0 ppb	S10.0	30mL	MP87741
ICV	ICV	30mL	MP87742
ICB	ICB	30mL	MP87743
CCV	CCV	30mL	MP87744
CCB	CCB	30mL	MP87745
CRI	CRI	30mL	MP87746
CHK STD	CHK STD	30mL	MP87747

Extraction Conformance/Non-Conformance Comments:

N/A		
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/27/25 16:10	m h mrf d12	m h mrf / 4 h
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB170271BL	PBS271	0.50	35	N/A	N/A	3-1
PB170271BS	LCS271	0.50	35	N/A	MP87734	2
Q3451-01MS	TP-11MS	0.50	35	N/A	MP87734	5
Q3451-01MSD	TP-11MSD	0.55	35	N/A	MP87734	6
Q3451-01DUP	TP-11DUP	0.56	35	N/A	N/A	4
Q3451-01	TP-11	0.55	35	N/A	N/A	3
Q3451-05	TP-12	0.52	35	N/A	N/A	7
Q3452-01	JB-1	0.59	35	N/A	N/A	8
Q3457-01	TR-05-102425	0.53	35	N/A	N/A	9
Q3460-01	WC-1	0.58	35	N/A	N/A	10
Q3460-05	WC-2	0.56	35	N/A	N/A	11
Q3460-09	WC-3	0.58	35	N/A	N/A	12
Q3460-13	WC-4	0.52	35	N/A	N/A	13
Q3460-17	WC-5	0.54	35	N/A	N/A	14
Q3465-01	SU-03-10242025	0.52	35	N/A	N/A	15
Q3466-02	B8-0.0-1.0-20251023	0.53	35	N/A	N/A	16
Q3466-05	B9-0.0-1.0-20251023	0.56	35	N/A	N/A	17
Q3466-07	B7-1.0-2.0-20251023	0.57	35	N/A	N/A	18
Q3469-01	TP-13	0.50	35	N/A	N/A	19

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: 10/28/2025 Time : 10:40 Temp : 96 °C

End Digest Date: 10/28/2025 Time : 12:42 Temp : 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: *SJ*

Supervisor Signature: *SJ*

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	M6158
1:1 HNO3	10.00	MP86978
30% H2O2	3.00	M6170
Conc. HNO3	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
10/28/25 13:42	<i>SJ met dig</i>	<i>SJ (met dig 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
PB170288BL	PBS288	N/A	2.00	100	Colorless	Colorless	Fine	No	N/A	1
PB170288BS	LCS288	N/A	2.00	100	Colorless	Colorless	Fine	No	M6209,M6201	2
Q3465-01	SU-03-10242025	N/A	2.40	100	Brown	Yellow	Medium	No	N/A	3
Q3466-02	B8-0.0-1.0-20251023	N/A	2.14	100	Brown	Yellow	Medium	No	N/A	4
Q3466-05	B9-0.0-1.0-20251023	N/A	2.14	100	Brown	Yellow	Medium	No	N/A	5
Q3466-07	B7-1.0-2.0-20251023	N/A	2.20	100	Brown	Yellow	Medium	No	N/A	6
Q3469-01	TP-13	N/A	2.30	100	Brown	Yellow	Medium	No	N/A	7
Q3469-01MS	TP-13MS	N/A	2.25	100	Brown	Yellow	Medium	No	M6209,M6201	9
Q3469-01MSD	TP-13MSD	N/A	2.28	100	Brown	Yellow	Medium	No	M6209,M6201	10
Q3469-01DUP	TP-13DUP	N/A	2.24	100	Brown	Yellow	Medium	No	N/A	8