



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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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								
Q3466-03	B8-0.0-1.0-20251023	TCLP	Barium	1090		72.8	500	ug/L
Q3466-03	B8-0.0-1.0-20251023	TCLP	Chromium	13.9	J	10.6	50.0	ug/L
Q3466-03	B8-0.0-1.0-20251023	TCLP	Lead	54.7	J	11.5	60.0	ug/L



SAMPLE DATA

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: B8-0.0-1.0-20251023
Lab Sample ID: Q3466-03
Level (low/med): low

Date Collected: 10/23/25
Date Received: 10/24/25
SDG No.: Q3466
Matrix: TCLP
% Solid: 0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	25.6	U	1	25.6	100	ug/L	10/28/25 12:30	10/28/25 20:06	6010D	SW3010A
7440-39-3	Barium	1090	N	1	72.8	500	ug/L	10/28/25 12:30	10/28/25 20:06	6010D	SW3010A
7440-43-9	Cadmium	2.50	U	1	2.50	30.0	ug/L	10/28/25 12:30	10/28/25 20:06	6010D	SW3010A
7440-47-3	Chromium	13.9	J	1	10.6	50.0	ug/L	10/28/25 12:30	10/28/25 20:06	6010D	SW3010A
7439-92-1	Lead	54.7	J	1	11.5	60.0	ug/L	10/28/25 12:30	10/28/25 20:06	6010D	SW3010A
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	10/28/25 12:30	10/28/25 16:03	7470A	7470A
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	10/28/25 12:30	10/28/25 20:06	6010D	SW3010A
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	10/28/25 12:30	10/28/25 20:06	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



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
ICB91	Mercury	0.076	+/-0.2	U	0.20	CV	10/28/2025	15:17	LB137673

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	Mercury	0.076	+/-0.2	U	0.20	CV	10/28/2025	15:22	LB137673
CCB02	Mercury	0.076	+/-0.2	U	0.20	CV	10/28/2025	15:50	LB137673
CCB03	Mercury	0.076	+/-0.2	U	0.20	CV	10/28/2025	16:21	LB137673
CCB04	Mercury	0.076	+/-0.2	U	0.20	CV	10/28/2025	16:37	LB137673

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	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	12:38	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	12:38	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	12:38	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	12:38	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	12:38	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	12:38	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	12:38	LB137677

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	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	13:08	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	13:08	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	13:08	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	13:08	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	13:08	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	13:08	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	13:08	LB137677
CCB02	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	14:05	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	14:05	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	14:05	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	14:05	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	14:05	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	14:05	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	14:05	LB137677
CCB03	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	14:57	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	14:57	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	14:57	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	14:57	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	14:57	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	14:57	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	14:57	LB137677
CCB04	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	15:49	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	15:49	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	15:49	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	15:49	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	15:49	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	15:49	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	15:49	LB137677
CCB05	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	16:39	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	16:39	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	16:39	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	16:39	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	16:39	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	16:39	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	16:39	LB137677
CCB06	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	17:32	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	17:32	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	17:32	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	17:32	LB137677

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	Lead	2.30	+/-6	U	12.0	P	10/28/2025	17:32	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	17:32	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	17:32	LB137677
CCB07	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	18:21	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	18:21	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	18:21	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	18:21	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	18:21	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	18:21	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	18:21	LB137677
CCB08	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	19:10	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	19:10	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	19:10	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	19:10	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	19:10	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	19:10	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	19:10	LB137677
CCB09	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	20:02	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	20:02	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	20:02	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	20:02	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	20:02	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	20:02	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	20:02	LB137677
CCB10	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	20:54	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	20:54	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	20:54	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	20:54	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	20:54	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	20:54	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	20:54	LB137677

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3466

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170261TB		WATER		Batch Number:	PB170292		Prep Date:	10/28/2025	
	Mercury	0.76	<2	U	2.00	CV	10/28/2025	16:28	LB137673
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170292BL		WATER		Batch Number:	PB170292		Prep Date:	10/28/2025	
	Mercury	0.076	<0.2	U	0.20	CV	10/28/2025	15:31	LB137673

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: HDR, Inc.

SDG No.: Q3466

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170261TB		WATER		Batch Number:	PB170291		Prep Date:	10/28/2025	
	Arsenic	25.6	<50	U	100	P	10/28/2025	19:02	LB137677
	Barium	72.8	<250	U	500	P	10/28/2025	19:02	LB137677
	Cadmium	2.50	<15	U	30.0	P	10/28/2025	19:02	LB137677
	Chromium	10.6	<25	U	50.0	P	10/28/2025	19:02	LB137677
	Lead	11.5	<30	U	60.0	P	10/28/2025	19:02	LB137677
	Selenium	48.2	<50	U	100	P	10/28/2025	19:02	LB137677
	Silver	8.10	<25	U	50.0	P	10/28/2025	19:02	LB137677
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170291BL		WATER		Batch Number:	PB170291		Prep Date:	10/28/2025	
	Arsenic	25.6	<50	U	100	P	10/28/2025	18:53	LB137677
	Barium	72.8	<250	U	500	P	10/28/2025	18:53	LB137677
	Cadmium	2.50	<15	U	30.0	P	10/28/2025	18:53	LB137677
	Chromium	10.6	<25	U	50.0	P	10/28/2025	18:53	LB137677
	Lead	11.5	<30	U	60.0	P	10/28/2025	18:53	LB137677
	Selenium	48.2	<50	U	100	P	10/28/2025	18:53	LB137677
	Silver	8.10	<25	U	50.0	P	10/28/2025	18:53	LB137677



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
ICV91	Mercury	3.65	4.0	91	90 - 110	CV	10/28/2025	15:15	LB137673

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
CCV01	Mercury	5.14	5.0	103	90 - 110	CV	10/28/2025	15:20	LB137673
CCV02	Mercury	5.17	5.0	104	90 - 110	CV	10/28/2025	15:47	LB137673
CCV03	Mercury	5.02	5.0	100	90 - 110	CV	10/28/2025	16:19	LB137673
CCV04	Mercury	5.06	5.0	101	90 - 110	CV	10/28/2025	16:34	LB137673

Metals

- 2a -

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
ICV01	Arsenic	3820	4000	95	90 - 110	P	10/28/2025	12:30	LB137677
	Barium	7600	8000	95	90 - 110	P	10/28/2025	12:30	LB137677
	Cadmium	1900	2000	95	90 - 110	P	10/28/2025	12:30	LB137677
	Chromium	783	800	98	90 - 110	P	10/28/2025	12:30	LB137677
	Lead	3730	4000	93	90 - 110	P	10/28/2025	12:30	LB137677
	Selenium	3820	4000	95	90 - 110	P	10/28/2025	12:30	LB137677
	Silver	963	1000	96	90 - 110	P	10/28/2025	12:30	LB137677

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	Arsenic	20.3	20.0	102	80 - 120	P	10/28/2025	12:34	LB137677
	Barium	93.0	100	93	80 - 120	P	10/28/2025	12:34	LB137677
	Cadmium	5.86	6.0	98	80 - 120	P	10/28/2025	12:34	LB137677
	Chromium	10.6	10.0	106	80 - 120	P	10/28/2025	12:34	LB137677
	Lead	12.0	12.0	100	80 - 120	P	10/28/2025	12:34	LB137677
	Selenium	20.7	20.0	104	80 - 120	P	10/28/2025	12:34	LB137677
	Silver	12.0	10.0	120	80 - 120	P	10/28/2025	12:34	LB137677

Metals

- 2a -

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	Arsenic	4950	5000	99	90 - 110	P	10/28/2025	13:03	LB137677
	Barium	10000	10000	100	90 - 110	P	10/28/2025	13:03	LB137677
	Cadmium	2480	2500	99	90 - 110	P	10/28/2025	13:03	LB137677
	Chromium	989	1000	99	90 - 110	P	10/28/2025	13:03	LB137677
	Lead	4910	5000	98	90 - 110	P	10/28/2025	13:03	LB137677
	Selenium	4960	5000	99	90 - 110	P	10/28/2025	13:03	LB137677
	Silver	1240	1250	99	90 - 110	P	10/28/2025	13:03	LB137677
CCV02	Arsenic	5220	5000	104	90 - 110	P	10/28/2025	14:01	LB137677
	Barium	10200	10000	102	90 - 110	P	10/28/2025	14:01	LB137677
	Cadmium	2610	2500	104	90 - 110	P	10/28/2025	14:01	LB137677
	Chromium	1060	1000	106	90 - 110	P	10/28/2025	14:01	LB137677
	Lead	5150	5000	103	90 - 110	P	10/28/2025	14:01	LB137677
	Selenium	5230	5000	105	90 - 110	P	10/28/2025	14:01	LB137677
	Silver	1290	1250	104	90 - 110	P	10/28/2025	14:01	LB137677
CCV03	Arsenic	4950	5000	99	90 - 110	P	10/28/2025	14:53	LB137677
	Barium	10500	10000	105	90 - 110	P	10/28/2025	14:53	LB137677
	Cadmium	2510	2500	101	90 - 110	P	10/28/2025	14:53	LB137677
	Chromium	1040	1000	104	90 - 110	P	10/28/2025	14:53	LB137677
	Lead	4950	5000	99	90 - 110	P	10/28/2025	14:53	LB137677
	Selenium	4940	5000	99	90 - 110	P	10/28/2025	14:53	LB137677
	Silver	1280	1250	102	90 - 110	P	10/28/2025	14:53	LB137677
CCV04	Arsenic	4930	5000	98	90 - 110	P	10/28/2025	15:45	LB137677
	Barium	9920	10000	99	90 - 110	P	10/28/2025	15:45	LB137677
	Cadmium	2500	2500	100	90 - 110	P	10/28/2025	15:45	LB137677
	Chromium	1000	1000	100	90 - 110	P	10/28/2025	15:45	LB137677
	Lead	4920	5000	98	90 - 110	P	10/28/2025	15:45	LB137677
	Selenium	4930	5000	98	90 - 110	P	10/28/2025	15:45	LB137677
	Silver	1240	1250	99	90 - 110	P	10/28/2025	15:45	LB137677
CCV05	Arsenic	5100	5000	102	90 - 110	P	10/28/2025	16:35	LB137677
	Barium	10300	10000	103	90 - 110	P	10/28/2025	16:35	LB137677
	Cadmium	2560	2500	102	90 - 110	P	10/28/2025	16:35	LB137677
	Chromium	1030	1000	103	90 - 110	P	10/28/2025	16:35	LB137677
	Lead	5060	5000	101	90 - 110	P	10/28/2025	16:35	LB137677
	Selenium	5090	5000	102	90 - 110	P	10/28/2025	16:35	LB137677

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
CCV05	Silver	1280	1250	102	90 - 110	P	10/28/2025	16:35	LB137677
CCV06	Arsenic	4960	5000	99	90 - 110	P	10/28/2025	17:27	LB137677
	Barium	10000	10000	100	90 - 110	P	10/28/2025	17:27	LB137677
	Cadmium	2520	2500	101	90 - 110	P	10/28/2025	17:27	LB137677
	Chromium	1010	1000	101	90 - 110	P	10/28/2025	17:27	LB137677
	Lead	4960	5000	99	90 - 110	P	10/28/2025	17:27	LB137677
	Selenium	4970	5000	99	90 - 110	P	10/28/2025	17:27	LB137677
	Silver	1260	1250	101	90 - 110	P	10/28/2025	17:27	LB137677
CCV07	Arsenic	4970	5000	99	90 - 110	P	10/28/2025	18:17	LB137677
	Barium	10200	10000	102	90 - 110	P	10/28/2025	18:17	LB137677
	Cadmium	2520	2500	101	90 - 110	P	10/28/2025	18:17	LB137677
	Chromium	1010	1000	101	90 - 110	P	10/28/2025	18:17	LB137677
	Lead	4950	5000	99	90 - 110	P	10/28/2025	18:17	LB137677
	Selenium	4970	5000	99	90 - 110	P	10/28/2025	18:17	LB137677
	Silver	1260	1250	101	90 - 110	P	10/28/2025	18:17	LB137677
CCV08	Arsenic	5110	5000	102	90 - 110	P	10/28/2025	19:06	LB137677
	Barium	10500	10000	105	90 - 110	P	10/28/2025	19:06	LB137677
	Cadmium	2600	2500	104	90 - 110	P	10/28/2025	19:06	LB137677
	Chromium	1030	1000	103	90 - 110	P	10/28/2025	19:06	LB137677
	Lead	5090	5000	102	90 - 110	P	10/28/2025	19:06	LB137677
	Selenium	5120	5000	102	90 - 110	P	10/28/2025	19:06	LB137677
	Silver	1290	1250	104	90 - 110	P	10/28/2025	19:06	LB137677
CCV09	Arsenic	4990	5000	100	90 - 110	P	10/28/2025	19:58	LB137677
	Barium	10300	10000	104	90 - 110	P	10/28/2025	19:58	LB137677
	Cadmium	2530	2500	101	90 - 110	P	10/28/2025	19:58	LB137677
	Chromium	1010	1000	101	90 - 110	P	10/28/2025	19:58	LB137677
	Lead	4960	5000	99	90 - 110	P	10/28/2025	19:58	LB137677
	Selenium	5000	5000	100	90 - 110	P	10/28/2025	19:58	LB137677
	Silver	1280	1250	102	90 - 110	P	10/28/2025	19:58	LB137677
CCV10	Arsenic	4880	5000	98	90 - 110	P	10/28/2025	20:49	LB137677
	Barium	10100	10000	101	90 - 110	P	10/28/2025	20:49	LB137677
	Cadmium	2480	2500	99	90 - 110	P	10/28/2025	20:49	LB137677
	Chromium	987	1000	99	90 - 110	P	10/28/2025	20:49	LB137677
	Lead	4850	5000	97	90 - 110	P	10/28/2025	20:49	LB137677

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
CCV10	Selenium	4880	5000	98	90 - 110	P	10/28/2025	20:49	LB137677
	Silver	1230	1250	99	90 - 110	P	10/28/2025	20:49	LB137677



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Metals

- 2b -

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
CRI01	Arsenic	19.5	20.0	97	65 - 135	P	10/28/2025	12:42	LB137677
	Barium	103	100	103	65 - 135	P	10/28/2025	12:42	LB137677
	Cadmium	5.75	6.0	96	65 - 135	P	10/28/2025	12:42	LB137677
	Chromium	10.4	10.0	104	65 - 135	P	10/28/2025	12:42	LB137677
	Lead	11.5	12.0	96	65 - 135	P	10/28/2025	12:42	LB137677
	Selenium	20.5	20.0	102	65 - 135	P	10/28/2025	12:42	LB137677
	Silver	10.6	10.0	106	65 - 135	P	10/28/2025	12:42	LB137677
CRA	Mercury	0.21	0.2	106	70 - 130	CV	10/28/2025	15:24	LB137673

Metals
- 4 -
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	Arsenic	5.71			-20	20	10/28/2025	12:47	LB137677
	Barium	0.81	6.0	14	-94	106	10/28/2025	12:47	LB137677
	Cadmium	2.04	1.0	204	-5	7	10/28/2025	12:47	LB137677
	Chromium	48.4	52.0	93	42	62	10/28/2025	12:47	LB137677
	Lead	4.98			-12	12	10/28/2025	12:47	LB137677
	Selenium	1.71			-20	20	10/28/2025	12:47	LB137677
	Silver	1.71			-10	10	10/28/2025	12:47	LB137677
ICSAB01	Arsenic	104	104	100	88.4	120	10/28/2025	12:51	LB137677
	Barium	472	537	88	437	637	10/28/2025	12:51	LB137677
	Cadmium	966	972	99	826	1120	10/28/2025	12:51	LB137677
	Chromium	530	542	98	460	624	10/28/2025	12:51	LB137677
	Lead	52.4	49.0	107	37	61	10/28/2025	12:51	LB137677
	Selenium	46.1	46.0	100	26	66	10/28/2025	12:51	LB137677
	Silver	203	201	101	170	232	10/28/2025	12:51	LB137677



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>Water</u>	sample id: <u>Q3460-04</u>	client id: <u>WC-1MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3460-04MS</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3860		100	U	4000	96		P
Barium	ug/L	75 - 125	2420		1040		1000	137	N	P
Cadmium	ug/L	75 - 125	963		30.0	U	1000	96		P
Chromium	ug/L	75 - 125	1970		50.0	U	2000	98		P
Lead	ug/L	75 - 125	5240		534		5000	94		P
Mercury	ug/L	75 - 125	36.1		2.00	U	40.0	90		CV
Selenium	ug/L	75 - 125	9680		100	U	10000	97		P
Silver	ug/L	75 - 125	354		50.0	U	380	93		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>Water</u>	sample id: <u>Q3460-04</u>	client id: <u>WC-1MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3460-04MSD</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	4030		100	U	4000	101		P
Barium	ug/L	75 - 125	2320		1040		1000	127	N	P
Cadmium	ug/L	75 - 125	994		30.0	U	1000	99		P
Chromium	ug/L	75 - 125	2040		50.0	U	2000	102		P
Lead	ug/L	75 - 125	5300		534		5000	95		P
Mercury	ug/L	75 - 125	34.5		2.00	U	40.0	86		CV
Selenium	ug/L	75 - 125	10100		100	U	10000	101		P
Silver	ug/L	75 - 125	371		50.0	U	380	98		P



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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: HDR, Inc.

Contract: HDRI08

Matrix: Water

Sample ID: Q3460-04

SDG No.: Q3466

Lab Code: ACE

Client ID: WC-1A

Level: LOW

Spiked ID: Q3460-04A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	75 - 125	2030		1040		1000	99		P

A
B
C
D
E
F
G
H
I
J

Metals

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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>Water</u>	Sample ID:	<u>Q3460-04</u>	Client ID:	<u>WC-1DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3460-04DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	100	U	100	U			P
Barium	ug/L	20	1040		1010		3		P
Cadmium	ug/L	20	30.0	U	2.54	J	200.0		P
Chromium	ug/L	20	50.0	U	50.0	U			P
Lead	ug/L	20	534		534		0		P
Mercury	ug/L	20	2.00	U	2.00	U			CV
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	U			P

Metals

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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>Water</u>	Sample ID:	<u>Q3460-04MS</u>	Client ID:	<u>WC-1MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3460-04MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	3860		4030		4		P
Barium	ug/L	20	2420		2320		4		P
Cadmium	ug/L	20	963		994		3		P
Chromium	ug/L	20	1970		2040		3		P
Lead	ug/L	20	5240		5300		1		P
Mercury	ug/L	20	36.1		34.5		5		CV
Selenium	ug/L	20	9680		10100		4		P
Silver	ug/L	20	354		371		5		P

Metals

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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
PB170291BS							
Arsenic	ug/L	4000	3800		95	80 - 120	P
Barium	ug/L	1000	994		99	80 - 120	P
Cadmium	ug/L	1000	937		94	80 - 120	P
Chromium	ug/L	2000	1980		99	80 - 120	P
Lead	ug/L	5000	4620		92	80 - 120	P
Selenium	ug/L	10000	9530		95	80 - 120	P
Silver	ug/L	380	366		96	80 - 120	P

Metals

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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
PB170292BS Mercury	ug/L	4.0	3.51		88	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

WC-1L

Lab Name: Alliance **Contract:** HDRI08
Lab Code: ACE **Lb No.:** lb137677 **Lab Sample ID :** Q3460-04L **SDG No.:** Q3466
Matrix (soil/water): Water **Level (low/med):** LOW
Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ- ence	Q	M
Arsenic	100	U	500	U			P
Barium	1040		1070	J	3		P
Cadmium	30.0	U	150	U			P
Chromium	50.0	U	250	U			P
Lead	534		507		5		P
Mercury	2.00	U	10.0	U			CV
Selenium	100	U	500	U			P
Silver	50.0	U	250	U			P

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: LB137673

Start date: 10/28/2025

End date: 10/28/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1455	HG
S0.2	S0.2	1	1458	HG
S2.5	S2.5	1	1500	HG
S5	S5	1	1502	HG
S7.5	S7.5	1	1505	HG
S10	S10	1	1510	HG
ICV91	ICV91	1	1515	HG
ICB91	ICB91	1	1517	HG
CCV01	CCV01	1	1520	HG
CCB01	CCB01	1	1522	HG
CRA	CRA	1	1524	HG
PB170292BL	PB170292BL	1	1531	HG
PB170292BS	PB170292BS	1	1534	HG
Q3460-04DUP	WC-1DUP	1	1538	HG
Q3460-04MS	WC-1MS	1	1540	HG
Q3460-04MSD	WC-1MSD	1	1543	HG
CCV02	CCV02	1	1547	HG
CCB02	CCB02	1	1550	HG
Q3466-03	B8-0.0-1.0-20251023	1	1603	HG
CCV03	CCV03	1	1619	HG
CCB03	CCB03	1	1621	HG
PB170261TB	PB170261TB	1	1628	HG
Q3460-04L	WC-1L	5	1630	HG
CCV04	CCV04	1	1634	HG
CCB04	CCB04	1	1637	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: LB137677

Start date: 10/28/2025

End date: 10/28/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1152	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1156	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1201	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1205	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1209	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1213	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1230	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1234	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1238	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1242	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1247	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1251	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1303	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1308	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1401	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1405	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1453	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1457	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1545	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1549	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1635	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1639	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1727	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1732	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1817	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1821	Ag,As,Ba,Cd,Cr,Pb,Se
PB170291BL	PB170291BL	1	1853	Ag,As,Ba,Cd,Cr,Pb,Se
PB170291BS	PB170291BS	1	1858	Ag,As,Ba,Cd,Cr,Pb,Se
PB170261TB	PB170261TB	1	1902	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	1906	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	1910	Ag,As,Ba,Cd,Cr,Pb,Se
Q3460-04DUP	WC-1DUP	1	1919	Ag,As,Ba,Cd,Cr,Pb,Se
Q3460-04L	WC-1L	5	1923	Ag,As,Ba,Cd,Cr,Pb,Se
Q3460-04MS	WC-1MS	1	1928	Ag,As,Ba,Cd,Cr,Pb,Se
Q3460-04MSD	WC-1MSD	1	1932	Ag,As,Ba,Cd,Cr,Pb,Se
Q3460-04A	WC-1A	1	1936	Ba
CCV09	CCV09	1	1958	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	2002	Ag,As,Ba,Cd,Cr,Pb,Se
Q3466-03	B8-0.0-1.0-20251023	1	2006	Ag,As,Ba,Cd,Cr,Pb,Se
CCV10	CCV10	1	2049	Ag,As,Ba,Cd,Cr,Pb,Se
CCB10	CCB10	1	2054	Ag,As,Ba,Cd,Cr,Pb,Se



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
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
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	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

Metals

- 11 -

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
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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0003170	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

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
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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
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

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
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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
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

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
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
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Lead	220.353	0.0000000	-0.0003610	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

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			10/23/25			10/24/25
			Mercury	7471B		10/27/25	10/28/25	
			Metals ICP-TAL	6010D		10/28/25	10/29/25	
Q3466-03	B8-0.0-1.0-20251023	TCLP			10/23/25			10/24/25
			TCLP Mercury	7470A		10/28/25	10/28/25	
			TCLP ICP Metals	6010D		10/28/25	10/28/25	
Q3466-05	B9-0.0-1.0-20251023	SOIL			10/23/25			10/24/25
			Mercury	7471B		10/27/25	10/28/25	
			Metals ICP-TAL	6010D		10/28/25	10/29/25	
Q3466-07	B7-1.0-2.0-20251023	SOIL			10/23/25			10/24/25
			Mercury	7471B		10/27/25	10/28/25	
			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(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB170291							
PB170261TB	PB170261TB	MB	WATER	10/28/2025	5.0	25.0	
PB170291BL	PB170291BL	MB	WATER	10/28/2025	5.0	25.0	
PB170291BS	PB170291BS	LCS	WATER	10/28/2025	5.0	25.0	
Q3460-04DUP	WC-1DUP	DUP	WATER	10/28/2025	5.0	25.0	
Q3460-04MS	WC-1MS	MS	WATER	10/28/2025	5.0	25.0	
Q3460-04MSD	WC-1MSD	MSD	WATER	10/28/2025	5.0	25.0	
Q3466-03	B8-0.0-1.0-20251023	SAM	WATER	10/28/2025	5.0	25.0	

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(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB170292							
PB170261TB	PB170261TB	MB	WATER	10/28/2025	3.0	30.0	
PB170292BL	PB170292BL	MB	WATER	10/28/2025	30.0	30.0	
PB170292BS	PB170292BS	LCS	WATER	10/28/2025	30.0	30.0	
Q3460-04DUP	WC-1DUP	DUP	WATER	10/28/2025	3.0	30.0	
Q3460-04MS	WC-1MS	MS	WATER	10/28/2025	3.0	30.0	
Q3460-04MSD	WC-1MSD	MSD	WATER	10/28/2025	3.0	30.0	
Q3466-03	B8-0.0-1.0-20251023	SAM	WATER	10/28/2025	3.0	30.0	

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137673

Review By	mohan	Review On	10/29/2025 10:11:43 AM
Supervise By	jaswal	Supervise On	10/29/2025 1:43:35 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 14:55		mohan	OK
2	S0.2	S0.2	CAL2	10/28/25 14:58		mohan	OK
3	S2.5	S2.5	CAL3	10/28/25 15:00		mohan	OK
4	S5	S5	CAL4	10/28/25 15:02		mohan	OK
5	S7.5	S7.5	CAL5	10/28/25 15:05		mohan	OK
6	S10	S10	CAL6	10/28/25 15:10		mohan	OK
7	ICV91	ICV91	ICV	10/28/25 15:15		mohan	OK
8	ICB91	ICB91	ICB	10/28/25 15:17		mohan	OK
9	CCV01	CCV01	CCV	10/28/25 15:20		mohan	OK
10	CCB01	CCB01	CCB	10/28/25 15:22		mohan	OK
11	CRA	CRA	CRDL	10/28/25 15:24		mohan	OK
12	HighStd	HighStd	HIGH STD	10/28/25 15:26		mohan	OK
13	ChkStd	ChkStd	SAM	10/28/25 15:29		mohan	OK
14	PB170292BL	PB170292BL	MB	10/28/25 15:31		mohan	OK
15	PB170292BS	PB170292BS	LCS	10/28/25 15:34		mohan	OK
16	Q3460-04	WC-1	SAM	10/28/25 15:36		mohan	OK
17	Q3460-04DUP	WC-1DUP	DUP	10/28/25 15:38		mohan	OK
18	Q3460-04MS	WC-1MS	MS	10/28/25 15:40		mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137673

Review By	mohan	Review On	10/29/2025 10:11:43 AM
Supervise By	jaswal	Supervise On	10/29/2025 1:43:35 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	Q3460-04MSD	WC-1MSD	MSD	10/28/25 15:43		mohan	OK
20	Q3460-08	WC-2	SAM	10/28/25 15:45		mohan	OK
21	CCV02	CCV02	CCV	10/28/25 15:47		mohan	OK
22	CCB02	CCB02	CCB	10/28/25 15:50		mohan	OK
23	Q3460-12	WC-3	SAM	10/28/25 15:52		mohan	OK
24	Q3460-16	WC-4	SAM	10/28/25 15:57		mohan	OK
25	Q3460-20	WC-5	SAM	10/28/25 16:00		mohan	OK
26	Q3466-03	B8-0.0-1.0-20251023	SAM	10/28/25 16:03		mohan	OK
27	Q3469-04	TP-13	SAM	10/28/25 16:05		mohan	OK
28	Q3472-05	COMP-1	SAM	10/28/25 16:07		mohan	OK
29	Q3472-07	COMP-2	SAM	10/28/25 16:09		mohan	OK
30	Q3472-09	COMP-3	SAM	10/28/25 16:12		mohan	OK
31	Q3472-11	COMP-4	SAM	10/28/25 16:14		mohan	OK
32	Q3472-13	COMP-5	SAM	10/28/25 16:16		mohan	OK
33	CCV03	CCV03	CCV	10/28/25 16:19		mohan	OK
34	CCB03	CCB03	CCB	10/28/25 16:21		mohan	OK
35	Q3472-15	155	SAM	10/28/25 16:23		mohan	OK
36	Q3472-17	142	SAM	10/28/25 16:25		mohan	OK
37	PB170261TB	PB170261TB	MB	10/28/25 16:28		mohan	OK
38	Q3460-04L	WC-1L	SD	10/28/25 16:30		mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137673

Review By	mohan	Review On	10/29/2025 10:11:43 AM
Supervise By	jaswal	Supervise On	10/29/2025 1:43:35 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	Q3460-04A	WC-1A	PS	10/28/25 16:32		mohan	OK
40	CCV04	CCV04	CCV	10/28/25 16:34		mohan	OK
41	CCB04	CCB04	CCB	10/28/25 16:37		mohan	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137677

Review By	jaswal	Review On	10/29/2025 3:56:34 PM
Supervise By	mohan	Supervise On	11/3/2025 10:11:27 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	10/28/25 11:52		Jaswal	OK
2	S1	S1	CAL2	10/28/25 11:56		Jaswal	OK
3	S2	S2	CAL3	10/28/25 12:01		Jaswal	OK
4	S3	S3	CAL4	10/28/25 12:05		Jaswal	OK
5	S4	S4	CAL5	10/28/25 12:09		Jaswal	OK
6	S5	S5	CAL6	10/28/25 12:13		Jaswal	OK
7	ICV01	ICV01	ICV	10/28/25 12:30		Jaswal	OK
8	LLICV01	LLICV01	LLICV	10/28/25 12:34		Jaswal	OK
9	ICB01	ICB01	ICB	10/28/25 12:38		Jaswal	OK
10	CRI01	CRI01	CRDL	10/28/25 12:42		Jaswal	OK
11	ICSA01	ICSA01	ICSA	10/28/25 12:47		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	10/28/25 12:51		Jaswal	OK
13	ICSADL	ICSADL	ICSA	10/28/25 12:55		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	10/28/25 12:59		Jaswal	OK
15	CCV01	CCV01	CCV	10/28/25 13:03		Jaswal	OK
16	CCB01	CCB01	CCB	10/28/25 13:08		Jaswal	OK
17	LR-1	LR-1	HIGH STD	10/28/25 13:12		Jaswal	OK
18	LR-3	LR-3	HIGH STD	10/28/25 13:21		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137677

Review By	jaswal	Review On	10/29/2025 3:56:34 PM
Supervise By	mohan	Supervise On	11/3/2025 10:11:27 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	Q3446-01	SB-14	SAM	10/28/25 13:26		Jaswal	OK
20	LR-2	LR-2	HIGH STD	10/28/25 13:30		Jaswal	OK
21	Q3446-02	SB-15	SAM	10/28/25 13:35		Jaswal	OK
22	Q3446-03	SB-16	SAM	10/28/25 13:39		Jaswal	OK
23	Q3446-04	SB-17	SAM	10/28/25 13:44		Jaswal	OK
24	Q3446-05	SB-18	SAM	10/28/25 13:48		Jaswal	OK
25	Q3446-06	SB-19	SAM	10/28/25 13:52		Jaswal	OK
26	Q3446-07	SB-20	SAM	10/28/25 13:57		Jaswal	OK
27	CCV02	CCV02	CCV	10/28/25 14:01		Jaswal	OK
28	CCB02	CCB02	CCB	10/28/25 14:05		Jaswal	OK
29	Q3446-08	SB-21	SAM	10/28/25 14:09		Jaswal	OK
30	Q3449-06	CF-620-COMP-41	SAM	10/28/25 14:14		Jaswal	OK
31	PB170263BL	PB170263BL	MB	10/28/25 14:18		Jaswal	OK
32	PB170263BS	PB170263BS	LCS	10/28/25 14:22		Jaswal	OK
33	PB170239TB	PB170239TB	MB	10/28/25 14:27		Jaswal	OK
34	PB170202TB	PB170202TB	MB	10/28/25 14:31		Jaswal	OK
35	Q3439-04	TP-9	SAM	10/28/25 14:35		Jaswal	OK
36	Q3439-08	TP-10	SAM	10/28/25 14:40		Jaswal	OK
37	Q3440-04	JB-2	SAM	10/28/25 14:44		Jaswal	OK
38	Q3447-02	P001-TW1-251023-01	SAM	10/28/25 14:49		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137677

Review By	jaswal	Review On	10/29/2025 3:56:34 PM
Supervise By	mohan	Supervise On	11/3/2025 10:11:27 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		

39	CCV03	CCV03	CCV	10/28/25 14:53		Jaswal	OK
40	CCB03	CCB03	CCB	10/28/25 14:57		Jaswal	OK
41	Q3447-04	P001-TW2-251023-01	SAM	10/28/25 15:01		Jaswal	OK
42	Q3447-06	P001-TW3-251023-01	SAM	10/28/25 15:06		Jaswal	OK
43	Q3447-08	P001-TW4-251023-01	SAM	10/28/25 15:10		Jaswal	OK
44	Q3451-04	TP-11	SAM	10/28/25 15:14		Jaswal	OK
45	Q3451-08	TP-12	SAM	10/28/25 15:19		Jaswal	OK
46	Q3452-04	JB-1	SAM	10/28/25 15:23		Jaswal	OK
47	Q3452-04DUP	JB-1DUP	DUP	10/28/25 15:28		Jaswal	OK
48	Q3452-04L	JB-1L	SD	10/28/25 15:32		Jaswal	OK
49	Q3452-04MS	JB-1MS	MS	10/28/25 15:36		Jaswal	OK
50	Q3452-04MSD	JB-1MSD	MSD	10/28/25 15:40		Jaswal	OK
51	CCV04	CCV04	CCV	10/28/25 15:45		Jaswal	OK
52	CCB04	CCB04	CCB	10/28/25 15:49		Jaswal	OK
53	Q3452-04A	JB-1A	PS	10/28/25 15:53		Jaswal	OK
54	Q3422-02	PR132-FB2-2025102	SAM	10/28/25 15:57		Jaswal	OK
55	PB170251BL	PB170251BL	MB	10/28/25 16:01		Jaswal	OK
56	PB170251BS	PB170251BS	LCS	10/28/25 16:06		Jaswal	OK
57	Q3434-02DL	PR132-WC2-2025102	SAM	10/28/25 16:10	5X For Na	Jaswal	Confirms
58	Q3447-01DL	P001-TW1-251023-01	SAM	10/28/25 16:14	5X For Fe, AG	Jaswal	Confirms

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137677

Review By	jaswal	Review On	10/29/2025 3:56:34 PM
Supervise By	mohan	Supervise On	11/3/2025 10:11:27 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		

59	Q3447-03DL	P001-TW2-251023-01	SAM	10/28/25 16:18	5X For Ag	Jaswal	Confirms
60	Q3447-05DL	P001-TW3-251023-01	SAM	10/28/25 16:22	5X for Cu,Pb, Still Cu,Pb high	Jaswal	Dilution
61	Q3420-05DL	COMPOSITEDL	SAM	10/28/25 16:26	NOT USE	Jaswal	Not Ok
62	Q3420-05DUPDL	COMPOSITEDUPDL	DUP	10/28/25 16:31	NOT USE	Jaswal	Not Ok
63	CCV05	CCV05	CCV	10/28/25 16:35		Jaswal	OK
64	CCB05	CCB05	CCB	10/28/25 16:39		Jaswal	OK
65	Q3417-01DL	101425DL	SAM	10/28/25 16:44	NOT USE	Jaswal	Not Ok
66	Q3420-05MSDL	COMPOSITEMSDL	MS	10/28/25 16:48	NOT USE	Jaswal	Not Ok
67	Q3420-05MSDDL	COMPOSITEMSDDL	MSD	10/28/25 16:53	NOT USE	Jaswal	Not Ok
68	Q3420-05ADL	COMPOSITEADL	PS	10/28/25 16:57	NOT USE	Jaswal	Not Ok
69	Q3420-05LDL	COMPOSITELDL	SD	10/28/25 17:01	NOT USE	Jaswal	Not Ok
70	Q3420-05DL2	COMPOSITEDL2	SAM	10/28/25 17:06	10x for Na	Jaswal	Confirms
71	Q3420-05DUPDL2	COMPOSITEDUPDL2	DUP	10/28/25 17:10	10x for Na	Jaswal	Confirms
72	Q3420-05LDL2	COMPOSITELDL2	SD	10/28/25 17:15	10x for Na	Jaswal	Confirms
73	Q3420-05MSDL2	COMPOSITEMSDL2	MS	10/28/25 17:19	10x for Na	Jaswal	Confirms
74	Q3420-05MSDDL2	COMPOSITEMSDDL2	MSD	10/28/25 17:23	10 x for Na	Jaswal	Confirms
75	CCV06	CCV06	CCV	10/28/25 17:27		Jaswal	OK
76	CCB06	CCB06	CCB	10/28/25 17:32		Jaswal	OK
77	Q3420-05ADL2	COMPOSITEADL2	PS	10/28/25 17:36	NOT REQUIRED	Jaswal	Not Ok

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137677

Review By	jaswal	Review On	10/29/2025 3:56:34 PM
Supervise By	mohan	Supervise On	11/3/2025 10:11:27 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		

78	PB170265BL	PB170265BL	MB	10/28/25 17:40		Jaswal	OK
79	PB170265BS	PB170265BS	LCS	10/28/25 17:45		Jaswal	OK
80	Q3451-01	TP-11	SAM	10/28/25 17:49		Jaswal	OK
81	Q3451-05	TP-12	SAM	10/28/25 17:53		Jaswal	OK
82	Q3451-05DUP	TP-12DUP	DUP	10/28/25 17:57		Jaswal	OK
83	Q3451-05L	TP-12L	SD	10/28/25 18:01		Jaswal	OK
84	Q3451-05MS	TP-12MS	MS	10/28/25 18:05		Jaswal	OK
85	Q3451-05MSD	TP-12MSD	MSD	10/28/25 18:09		Jaswal	OK
86	Q3451-05A	TP-12A	PS	10/28/25 18:13		Jaswal	OK
87	CCV07	CCV07	CCV	10/28/25 18:17		Jaswal	OK
88	CCB07	CCB07	CCB	10/28/25 18:21		Jaswal	OK
89	Q3452-01	JB-1	SAM	10/28/25 18:25		Jaswal	OK
90	Q3457-01	TR-05-102425	SAM	10/28/25 18:29		Jaswal	OK
91	Q3460-01	WC-1	SAM	10/28/25 18:33		Jaswal	OK
92	Q3460-05	WC-2	SAM	10/28/25 18:37		Jaswal	OK
93	Q3460-09	WC-3	SAM	10/28/25 18:41		Jaswal	OK
94	Q3460-13	WC-4	SAM	10/28/25 18:45		Jaswal	OK
95	Q3460-17	WC-5	SAM	10/28/25 18:49		Jaswal	OK
96	PB170291BL	PB170291BL	MB	10/28/25 18:53		Jaswal	OK
97	PB170291BS	PB170291BS	LCS	10/28/25 18:58		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137677

Review By	jaswal	Review On	10/29/2025 3:56:34 PM
Supervise By	mohan	Supervise On	11/3/2025 10:11:27 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		

98	PB170261TB	PB170261TB	MB	10/28/25 19:02		Jaswal	OK
99	CCV08	CCV08	CCV	10/28/25 19:06		Jaswal	OK
100	CCB08	CCB08	CCB	10/28/25 19:10		Jaswal	OK
101	Q3460-04	WC-1	SAM	10/28/25 19:14		Jaswal	OK
102	Q3460-04DUP	WC-1DUP	DUP	10/28/25 19:19		Jaswal	OK
103	Q3460-04L	WC-1L	SD	10/28/25 19:23		Jaswal	OK
104	Q3460-04MS	WC-1MS	MS	10/28/25 19:28		Jaswal	OK
105	Q3460-04MSD	WC-1MSD	MSD	10/28/25 19:32		Jaswal	OK
106	Q3460-04A	WC-1A	PS	10/28/25 19:36		Jaswal	OK
107	Q3460-08	WC-2	SAM	10/28/25 19:40		Jaswal	OK
108	Q3460-12	WC-3	SAM	10/28/25 19:44		Jaswal	OK
109	Q3460-16	WC-4	SAM	10/28/25 19:49		Jaswal	OK
110	Q3460-20	WC-5	SAM	10/28/25 19:53		Jaswal	OK
111	CCV09	CCV09	CCV	10/28/25 19:58	CCV fail for Na	Jaswal	OK
112	CCB09	CCB09	CCB	10/28/25 20:02		Jaswal	OK
113	Q3466-03	B8-0.0-1.0-20251023	SAM	10/28/25 20:06		Jaswal	OK
114	Q3469-04	TP-13	SAM	10/28/25 20:10		Jaswal	OK
115	Q3472-05	COMP-1	SAM	10/28/25 20:15		Jaswal	OK
116	Q3472-07	COMP-2	SAM	10/28/25 20:19		Jaswal	OK
117	Q3472-09	COMP-3	SAM	10/28/25 20:24		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137677

Review By	jaswal	Review On	10/29/2025 3:56:34 PM
Supervise By	mohan	Supervise On	11/3/2025 10:11:27 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		

118	Q3472-11	COMP-4	SAM	10/28/25 20:28		Jaswal	OK
119	Q3472-13	COMP-5	SAM	10/28/25 20:32		Jaswal	OK
120	Q3472-15	155	SAM	10/28/25 20:37		Jaswal	OK
121	Q3472-17	142	SAM	10/28/25 20:41		Jaswal	OK
122	Q3465-01	SU-03-10242025	SAM	10/28/25 20:45	NOT USE	Jaswal	Not Ok
123	CCV10	CCV10	CCV	10/28/25 20:49	CCV fail for TI	Jaswal	OK
124	CCB10	CCB10	CCB	10/28/25 20:54	CCB fail for Fe	Jaswal	OK

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pipette ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

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

Start Digest Date: 10/28/2025 Time : 12:30 Temp : 96 °C

End Digest Date: 10/28/2025 Time : 15:32 Temp : 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: *SLH*

Supervisor Signature: *SD*

Temp : 1. 96°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6209
LFS-2	0.25	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	3.00	M6158
1:1 HCL	5.00	MP87148
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#1 CELL#50 96C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/28/25 16:32	<i>SLH met dig</i>	<i>SD (met dig lab)</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB170261TB	PB170261TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	9
PB170291BL	PBW291	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	10
PB170291BS	LCS291	<2	5	25	Colorless	Colorless	Clear	Clear	M6209,M6201	11
Q3460-04MS	WC-1MS	<2	5	25	Colorless	Colorless	Clear	Clear	M6209,M6201	14
Q3460-04MSD	WC-1MSD	<2	5	25	Colorless	Colorless	Clear	Clear	M6209,M6201	15
Q3460-04DUP	WC-1DUP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	13
Q3460-04	WC-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	11
Q3460-08	WC-2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	16
Q3460-12	WC-3	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	17
Q3460-16	WC-4	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	18
Q3460-20	WC-5	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	19
Q3466-03	BB-0.0-1.0-20251023	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	20
Q3469-04	TP-13	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	21
Q3472-05	COMP-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	22
Q3472-07	COMP-2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	23
Q3472-09	COMP-3	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	24
Q3472-11	COMP-4	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	25
Q3472-13	COMP-5	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	26
Q3472-15	155	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	27
Q3472-17	142	<2	5	50	Colorless	Colorless	Clear	Clear	N/A	28

SOP ID : M7470A-Mercury-20

SDG No : N/A

Matrix : WATER

Pipette ID: HG A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #1

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

Start Digest Date: 10/28/2025 Time : 12:30 Temp : 96 °C

End Digest Date: 10/28/2025 Time : 14:32 Temp : 96 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG. #3

Dig Technician Signature: *[Signature]*

Supervisor Signature: *[Signature]*

Temp : 1. 96°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
ICV	30ML	MP87760
CCV	30ML	MP87762
CRA	30mL	MP87764
Blank Spike	0.48mL	MP87753
Matrix Spike	0.48ml	MP87753

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.25mL	MP87633
KMnO4 (5%)	4.5mL	MP87634
K2S2O8 (5%)	2.4mL	MP87635
Hydroxylamine HCL (12%)	1.8mL	MP87636
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	MP87754
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP87755
2.5 ppb	S2.5	30mL	MP87756
5.0 ppb	S5.0	30mL	MP87757
7.5 ppb	S7.5	30mL	MP87758
10.0 ppb	S10.0	30mL	MP87759
ICV	ICV	30mL	MP87760
ICB	ICB	30mL	MP87761
CCV	CCV	30mL	MP87762
CCB	CCB	30mL	MP87763
CRI	CRI	30mL	MP87764
CHK STD	CHK STD	30mL	MP87765

Extraction Conformance/Non-Conformance Comments:

N/A		
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/28/25 14:50	<i>[Signature]</i>	<i>[Signature]</i>
14:50	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB170261TB	PB170261TB	3	30	<2	N/A	3-1
PB170292BL	PBW292	30	30	<2	N/A	2
PB170292BS	LCS292	30	30	<2	MP87753	3
Q3460-04MS	WC-1MS	3	30	<2	MP87753	6
Q3460-04MSD	WC-1MSD	3	30	<2	MP87753	7
Q3460-04DUP	WC-1DUP	3	30	<2	N/A	5
Q3460-04	WC-1	3	30	<2	N/A	4
Q3460-08	WC-2	3	30	<2	N/A	8
Q3460-12	WC-3	3	30	<2	N/A	9
Q3460-16	WC-4	3	30	<2	N/A	10
Q3460-20	WC-5	3	30	<2	N/A	11
Q3466-03	B8-0.0-1.0-20251023	3	30	<2	N/A	12
Q3469-04	TP-13	3	30	<2	N/A	13
Q3472-05	COMP-1	3	30	<2	N/A	14
Q3472-07	COMP-2	3	30	<2	N/A	15
Q3472-09	COMP-3	3	30	<2	N/A	16
Q3472-11	COMP-4	3	30	<2	N/A	17
Q3472-13	COMP-5	3	30	<2	N/A	18
Q3472-15	155	3	30	<2	N/A	19
Q3472-17	142	3	30	<2	N/A	20

SOP ID : M1311-TCLP-16
SDG No : N/A
Weigh By : JP
Balance ID : WC SC-7
pH Meter ID : WC PH METER-1
Extraction By : JP
Filter By : JP
Pipette ID : WC
Tumbler ID : T-1 / T-2
TCLP Filter ID : 40718710

Start Prep Date : 10/27/2025 **Time :** 15:00
End Prep Date : 10/28/2025 **Time :** 08:35
Combination Ratio : 20
ZHE Cleaning Batch : N/A 10
Initial Room Temperature: 23 °C
Final Room Temperature: 22 °C
TCLP Technician Signature : [Signature]
Supervisor By : [Signature]

Standard Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP114525
HCL-TCLP,1N	N/A	WP114527
HNO3-TCLP,1N	N/A	WP114528
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP86978

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after filtration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. Q3472-17 IS OIL sample so % is <0.5 so we assume water samples no fluid determination. q3460-04 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/28/25 10:30	[Signature] 1st Room	[Signature] R. 1 Ext
	Preparation Group	Analysis Group [Signature]

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB170261TB	LEB261	14	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q3460-04	WC-1	01	100.02	2000	N/A	N/A	N/A	5.0	1.0	T-1
Q3460-08	WC-2	02	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q3460-12	WC-3	03	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q3460-16	WC-4	04	100.04	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q3460-20	WC-5	05	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q3466-03	B8-0.0-1.0-20251023	06	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q3469-04	TP-13	07	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q3472-05	COMP-1	08	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q3472-07	COMP-2	09	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-1
Q3472-09	COMP-3	10	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q3472-11	COMP-4	11	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q3472-13	COMP-5	12	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q3472-15	155	13	10.01	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q3472-17	142	N/A	N/A	N/A	N/A	N/A	N/A	8.0	1.0	N/A

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB170261TB	LEB261	N/A	N/A	N/A	N/A	N/A	N/A
Q3460-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
Q3460-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
Q3460-12	WC-3	N/A	N/A	N/A	N/A	100	N/A
Q3460-16	WC-4	N/A	N/A	N/A	N/A	100	N/A
Q3460-20	WC-5	N/A	N/A	N/A	N/A	100	N/A
Q3466-03	B8-0.0-1.0-20251023	N/A	N/A	N/A	N/A	100	N/A
Q3469-04	TP-13	N/A	N/A	N/A	N/A	100	N/A
Q3472-05	COMP-1	N/A	N/A	N/A	N/A	100	N/A
Q3472-07	COMP-2	N/A	N/A	N/A	N/A	100	N/A
Q3472-09	COMP-3	N/A	N/A	N/A	N/A	100	N/A
Q3472-11	COMP-4	N/A	N/A	N/A	N/A	100	N/A
Q3472-13	COMP-5	N/A	N/A	N/A	N/A	100	N/A
Q3472-15	155	N/A	N/A	N/A	N/A	100	N/A
Q3472-17	142	N/A	N/A	N/A	N/A	<0.5	N/A

Hot Block ID : WC S-1 / WC S-2
Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB170261TB	LEB261	N/A	N/A	N/A	N/A	#1	4.93
Q3460-04	WC-1	5.02	96.5	7.2	2.5	#1	4.93
Q3460-08	WC-2	5.03	96.5	8.0	3.0	#1	4.93
Q3460-12	WC-3	5.02	96.5	8.2	3.0	#1	4.93
Q3460-16	WC-4	5.01	96.5	8.6	3.5	#1	4.93
Q3460-20	WC-5	5.02	96.5	8.6	3.5	#1	4.93
Q3466-03	B8-0.0-1.0-20251023	5.03	96.5	6.4	2.0	#1	4.93
Q3469-04	TP-13	5.03	96.5	8.0	3.0	#1	4.93
Q3472-05	COMP-1	5.01	96.5	5.6	1.5	#1	4.93
Q3472-07	COMP-2	5.02	96.5	5.5	1.5	#1	4.93
Q3472-09	COMP-3	5.03	96.5	5.6	2.0	#1	4.93
Q3472-11	COMP-4	5.02	96.5	5.6	1.5	#1	4.93
Q3472-13	COMP-5	5.03	96.5	5.8	2.0	#1	4.93
Q3472-15	155	5.02	96.5	6.0	2.0	#1	4.93
Q3472-17	142	N/A	N/A	N/A	N/A	N/A	N/A